V-SFT Ver. 6.2.3.0 Update Information

	V10	V9	TSi/TS	V8i(N)/V8(N)	X1
System program	Ver. 1.200	Ver. 3.000	Ver. 2.440	Ver. 2.390	Ver. 1.700 *2
OS	Ver. 1.30 *1	Ver. 4.90 *1			

*1 Storage is necessary for updating.

*2 Please download the X1 update program from our website. For the update procedure, refer to the "Update Procedure" provided with the update program.

Connection

1 Additional connectable device: Fuji Electric PUM (MODBUS TCP/IP)

Applicable model: V10, V9, TSi, X1
Device: Fuji Electric PUM (MODBUS TCP/IP)

2 Additional connectable device: CODESYS CODESYS V3 (Ethernet)

Applicable model: V10
Device: CODESYS CODESYS V3 (Ethernet)

* OS updating is necessary.
* V9 and X1 are already supported (TSi is not supported).

3 Connectable device extended specifications: KEYENCE KV Nano   RS-485 (2-wire) connection

Applicable model: V10, V9, TSi/TS
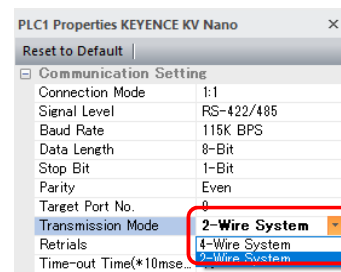Device: KEYENCE KV Nano
Transmission Mode: 2-Wire System

<Overview>
RS-485 (2-wire) connection is now supported when using KV nano expansion cassette.
[Transmission Mode] has been added to the PLC properties to select
[2-Wire System / 4-Wire System].

Function

1 V9 Series RGB output: Added specifications when the backlight is turned off.

<Overview>
RGB output is now available for display on an external monitor even when the V9 backlight is off.

<Setting location>
Uncheck [System Settings] → [Unit Settings] → [General Settings] → [Halt the RGB signal while backlight is OFF].

Editor

1 Tag database: Siemens PLC software TIA Portal Ver. 18 supported
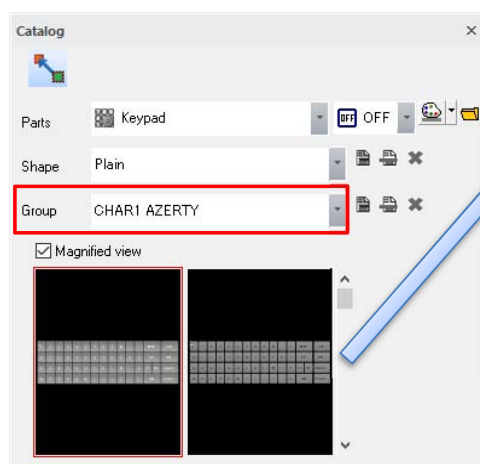
<Overview>
Tags can be imported from TIA project files (*.ap18) created with Siemens software TIA Portal Ver. 18.

2 AZERTY keypads supported

<Overview>
AZERTY keypads used in France and other countries
have been added to the catalog in V-SFT.

AZERTY keypad (red frame: difference from conventional keypad)

Conventional keypad

V-SFT Ver. 6.2.2.0 Update Information

	V10	V9	TSi/TS	V8i(N)/V8(N)	X1
System program	Ver. 1.100	Ver. 2.900	Ver. 2.430	Ver. 2.390	Ver. 1.600 *2
OS	Ver. 1.10 *1	Ver. 4.80 *1			

*1 Storage is necessary for updating.

*2 Please download the X1 update program from our website. For the update procedure, refer to the "Update Procedure" provided with the update program.

Connection

1 Additional connectable device: MITSUBISHI ELECTRIC FR-E800

Applicable model: V10, V9, TSi/TS, X1
Device: MITSUBISHI ELECTRIC FR-E800

2 Additional connectable device: SHINKO TECHNOS QTC1 Series(MODBUS RTU)

Applicable model: V10, V9, TSi/TS, X1
Device: SHINKO TECHNOS QTC1 Series(MODBUS RTU)

3 Additional connectable device: SHINKO TECHNOS QTC1 Series(QMC1)(MODBUS RTU)

Applicable model: V10, V9, TSi/TS, X1
Device: SHINKO TECHNOS QTC1 Series(QMC1)(MODBUS RTU)

4 Connectable device extended specifications: Fuji Electric Signed BCD supported with MICREX-SX

F mode (MICREX-F compatible)

Applicable model: V10, V9, V8, TSi/TS, X1
Device:　　Fuji Electric MICREX-SX(Ethernet)
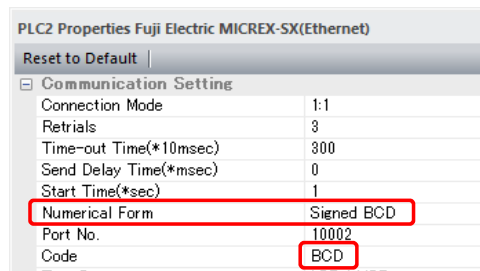　　　　　　Fuji Electric MICREX-SX(SX bus)
　　　　　　Fuji Electric MICREX-SX(OPCN-1)
Numerical Form: Signed BCD

<Overview>
By supporting "Signed BCD", MICREX-F compatible numerical formats
can be used.
At this time, the code specified in the property is set to BCD in conjunction.
(Each item, such as the numerical display, must be set to BCD individually.)

Function

1 Support for limitations of the V10 Series (except for Video / RGB)

* OS updating is necessary.

<Overview>
The V10 series supports the following, although there were some limitations in the functions supported by the V9 series.

- Printing with PictBridge
- VNC server : KeepAlive function
- Operation logs : Username log and MAC address log for VNC clients

<Limitations>
Video / RGB : Optional units for V10 are under development. Scheduled to be supported in April 2024.
Refer to "monitouch.fujielectric.com/site/download-e/other/V10_Limitations_en_202310.pdf".

2 Centering of Numerical and Character display

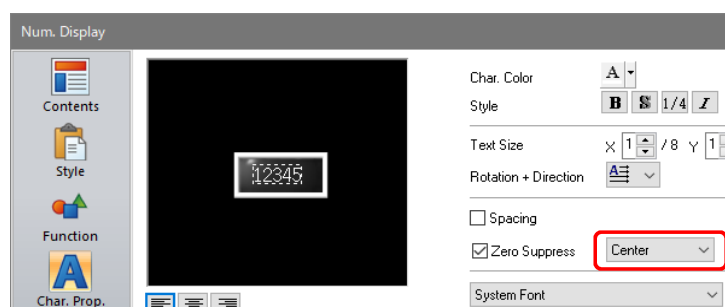Applicable model: V10, V9, V8, TSi/TS, X1

<Overview>
Numerical and character displays in the data
display can be centered.

<Item>
Numerical display and Character display
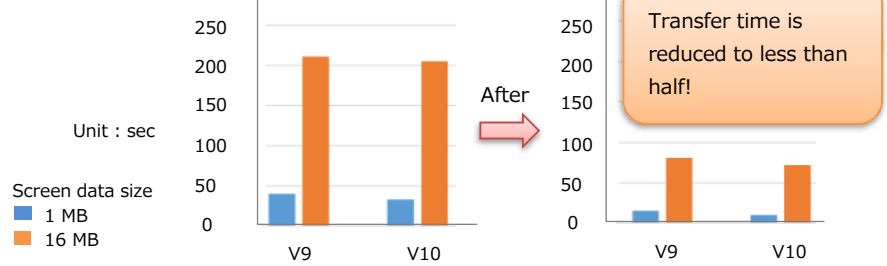
<Setting>
[Char. prop.] of each item

1 Improved performance of screen data transfer

<Overview>
The time required for screen data transfer
has been greatly improved.
When screen data is large in size, the stress
of screen data transfer can be reduced
more than before.

Results of internal verification, Transfer by Ethernet

Unit : sec

Screen data size
- 1 MB
- 16 MB

After

Transfer time is reduced to less than half!

V9　V10　V9　V10

2 Extended specifications for batch tag device changes

<Overview>
Tag names of converted devices can be changed in a batch using the Batch Change Device (Tag) dialog → [Replace].

<Device>
OMRON
- NJ Series (EtherNet/IP)
Allen-Bradley
- ControlLogix/CompactLogix Tag
- ControlLogix/CompactLogix Tag(Ethernet TCP/IP)
- Micro800 Controllers Tag
- Micro800 Controllers Tag(Ethernet TCP/IP)
- ControlLogix/CompactLogix
- ControlLogix/CompactLogix(Ethernet)
- Micro800 Controllers
- Micro800 Controllers(Ethernet TCP/IP)
BECKHOFF
- Tag ADS Protocol(Ethernet)
CODESYS
- CODESYS V3(Ethernet)
Siemens
- S7-1200/1500 Optimized Tag (Ethernet ISOTCP)
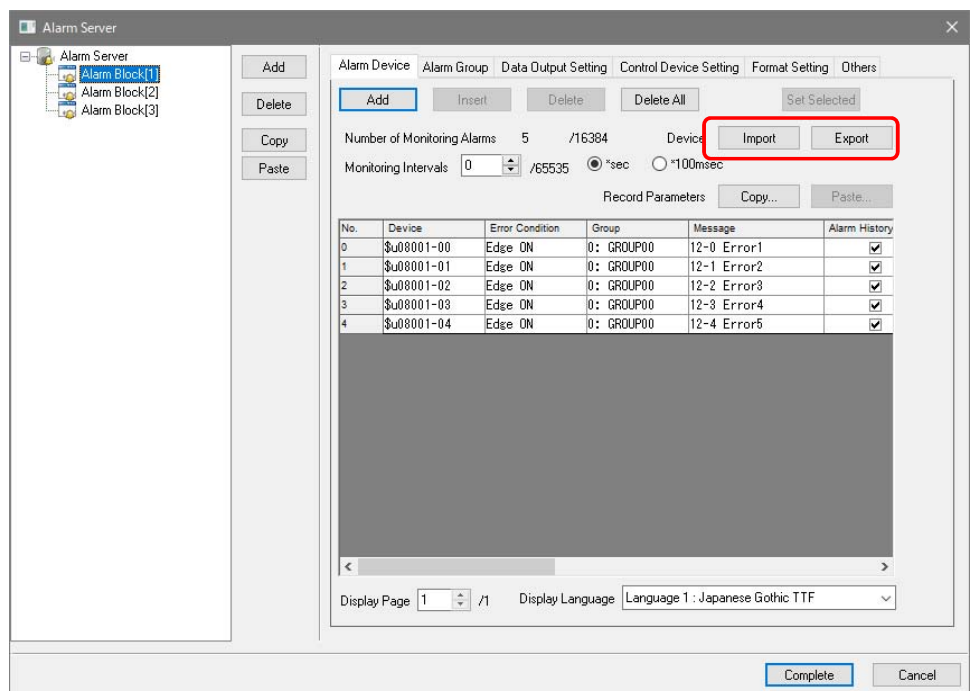- S7-1200/1500 Tag (Ethernet ISOTCP)
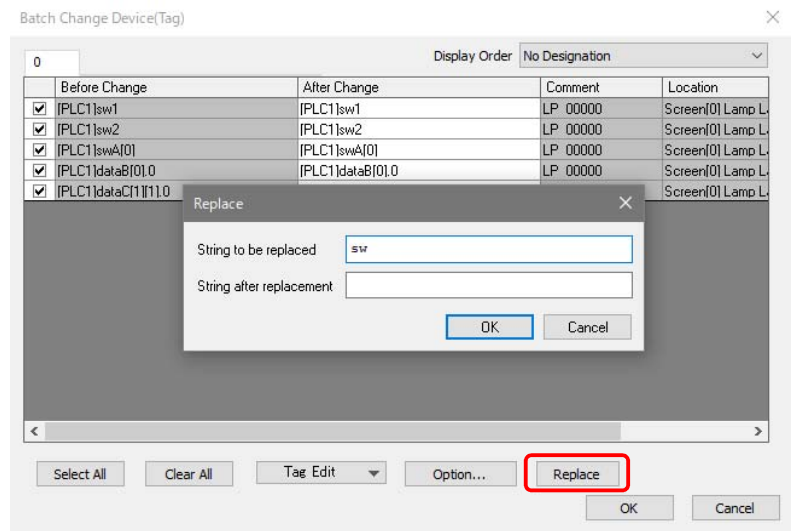
3 Alarm Server   Extended specifications for import/export editing

<Overview>
All alarm server settings can be edited in a CSV file.

<Operation>
[System Setting] > [Alarm Server] >
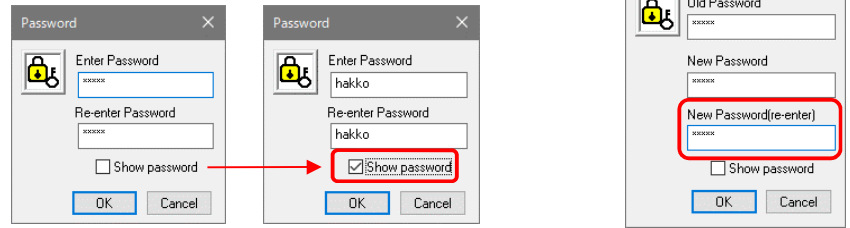[Alarm Device] > [Import] / [Export].

4 Password display when entering a password and re-entry of new password

Check [Show password].

<Overview>
When entering a password, you can confirm
the characters you have entered.
Also, when entering a new password,
you must re-enter the same password.

---

5 Replacement of Sharp ZM series → MONITOUCH

<Overview>
With the discontinuation of the ZM series
by Sharp Corporation, the screen data of
the ZM series will be converted for MONITOUCH.
Screen data of the ZM series can be inherited
without modification, ensuring a smooth replacement.

> Replacement guidance is available.
> For details, contact your local sales representative.
>   Support@hakko-elec.co.jp

<Limitations>
* The following cannot be done with V-SFT Ver. 6.
  Use Sharp's ZM dedicated software.
  - Reading/writing and editing screen data from the ZM unit.
  - Converting the BIN file created by ZM-71S/ZM-72S.
* MONITOUCH does not support the ladder monitor function of Sharp PLCs.

---
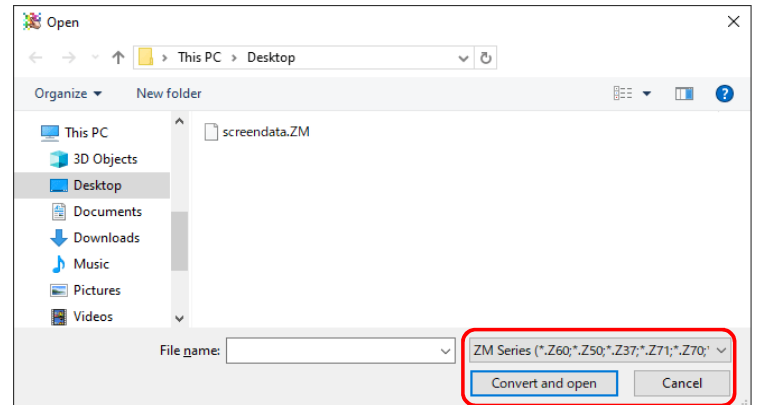
6 Update manufacturer and model names of connected devices

<Overview>
The names of manufacturers and the order in which they are
displayed have been updated to reflect consolidation and name
changes of manufacturers.

---
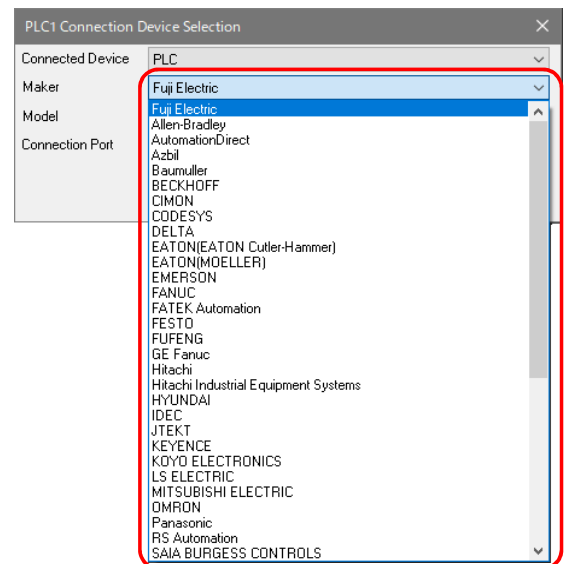
7 Improvement of warning display during screen data transfer

<Overview>
The message displayed during screen data transfer when the MONITOUCH
system program needs to be updated has been changed.

Before change : Check level will rise. Are you sure you want to transfer ?
After change : The system program will be updated because it is old.
                Are you sure you want to transfer?

MONITOUCH

Fuji Electric

April 2023
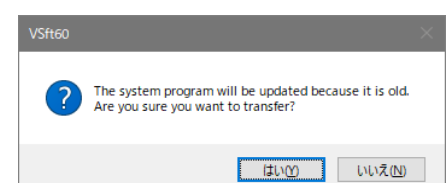
V-SFT Ver. 6.2.0.0 Update Information

	V10 NEW!	V9	TSi/TS	V8i(N)/V8(N)	X1
System program	Ver. 1.000	Ver. 2.800	Ver. 2.420	Ver. 2.390	Ver. 1.500 [*2]
OS	Ver. 1.00 [*1]	Ver. 4.80 [*1]			

[*1] Storage is necessary for updating.

[*2] Please download the X1 update program from our website. For the update procedure, refer to the "Update Procedure" provided with the update program.

Connection

1 Additional connectable device: XINJE XD Series (MODBUS RTU)

Applicable model: V10, V9, TSi/TS, X1
Device: XINJE XD Series (MODBUS RTU)

Function

1 USB camera: Extended specifications
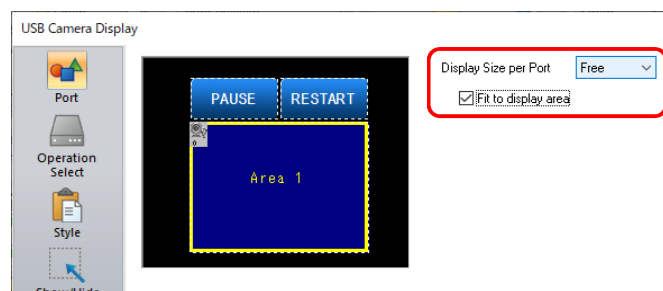
Applicable model: V10, V9   * V9101iW, V9071iW (capacitive type switch) not supported
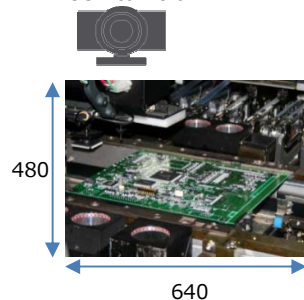
■ Display area: Free

<Overview>
The display area of the camera can be set to free size.
By selecting the [Fit to display area] checkbox, the camera image can be displayed to fit the screen layout.
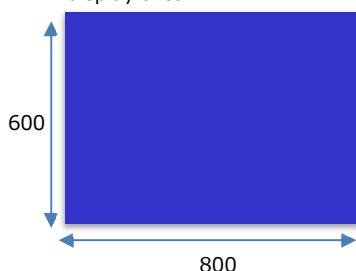(If not selected, displayed in actual size)

<Example display>

USB camera

480
640
Unit: dots

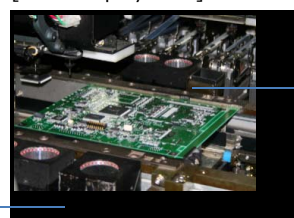When showing in the following display area:

600
800

[Fit to display area] selected

Enlarged display

[Fit to display area]: Deselected

Actual size

Blank parts of the display area are displayed in black.

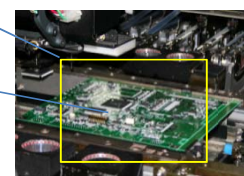### ■ Macro commands: Clip start position, image clip size

<Overview>
Macro commands can be used to clip a section from the camera image and display it.

Clip start position

Image clip size

<Macro commands>
- USBCAM CLIP_POS (Clip start position)
- USBCAM CLIP_SIZE (Image clip size)
- USBCAM MEMORY (Device memory designation F1=8: CLIP_POS, F1=9: CLIP_SIZE)

* For details, refer to the "Macro Reference Manual".

2 Video player: Extended specifications

Applicable model: V10, V9

The play and stop buttons are now separate buttons.

<Overview>
Playback of videos by moving back/forward by frames is possible.

This is available only when the video is paused.

Previous frame (goes back by 2 seconds)
* Invalid 3 seconds before end of video

Next frame
(goes forward by 2 seconds)

---

3 E-mail notification: Extended specifications

■ Encrypted transmission supporting TLS 1.3/1.2

Applicable model: V10, V9, TSi

<Correspondence table>

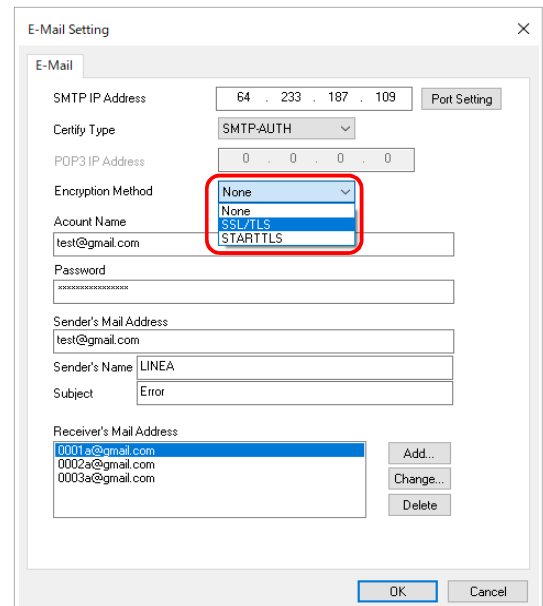|	TLS 1.3	TLS 1.2	TLS 1.1
V10	○ NEW!	○ NEW!	○
V9	×	○ NEW!	○
TSi	○ NEW!	○ NEW!	○ NEW!

■ TSi: Supporting STARTTLS encryption

Applicable model: TSi

* This function is already supported on the V10 and V9 series.

* For details such as operation-verified mail servers, refer to the following.
- V10/V9 Series Reference Manual 2
- TS2060/TS1000 Smart Reference Manual 2

---

4 X1 internal storage: Outputting remaining space to $s2025, $s2026

Applicable model: X1

<Overview>
The remaining space of internal storage of the X1 series unit can be output to $s2025 and $s2026 for viewing in RUN mode.

<Details of capacity available to users>

$s	Internal storage	Folder		Capacity
$s2025 NEW !	System area	Non-user area		34 GB
	User area	Write filter applicable area	C:\UserProgramFiles	15 GB
$s2026 NEW !		Write filter non-applicable area	• C:\MONITOUCH\X1\0 folder • C:\MONITOUCH\X1\1 folder • C:\MONITOUCH\X1\opcua folder • C:\UserData folder	15 GB

↑
Unit: MB
Updated once every 60 seconds

# Editor

1 MONITOUCH V10 series supported

<Overview>
Configuration and transfer of screen programs for the new V10 series MONITOUCH is supported.
The extension of the V10 screen program is "*.V10".
Screen programs configured for the V9 series and before can be converted for use on the V10 series.

**The V10 series is an HMI that achieves outstanding high speed!**
For details, access https://monitouch.fujielectric.com/
Please try out its high performance!
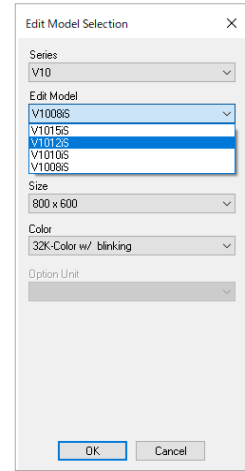
2 File comparison: Editing of the comparison source
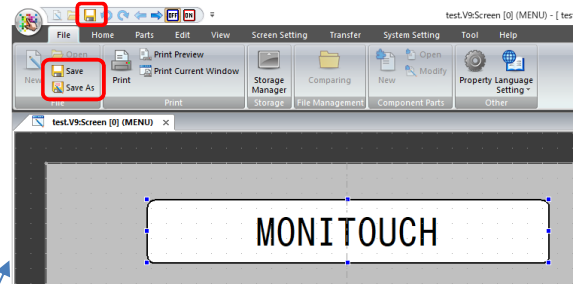
<Overview>
The [Detail] window showing text comparison results can be used to display both the comparison source and target screen programs, allowing editing and saving of both.
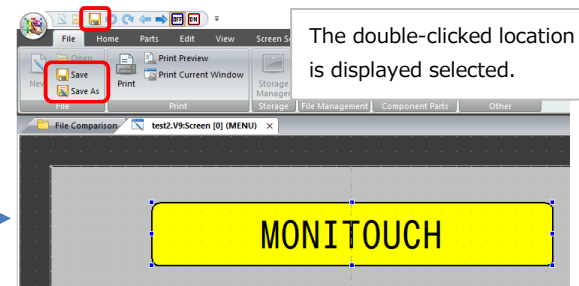
Double-click

Double-click
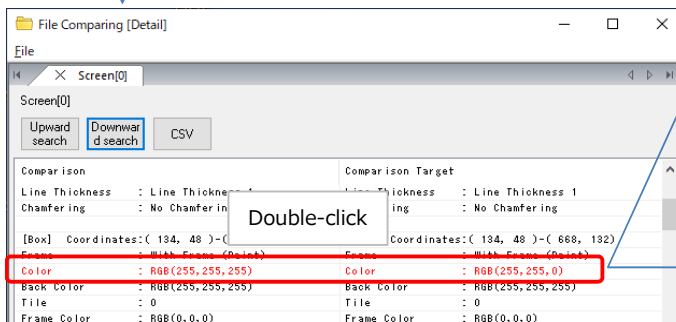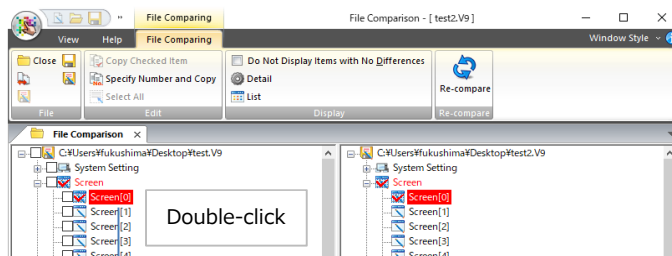
Comparison target screen program
(displayed in same window as [File Comparison] tab window)

Comparison source screen program
(displayed in separate window)

The double-clicked location is displayed selected.

3 Message edit: Multi-language copy

<Overview>
For a multi-language screen program, the content of the message edit window can be copied and pasted for all languages at one time.
Since there is no need to copy one language at a time, configuration time can be reduced.
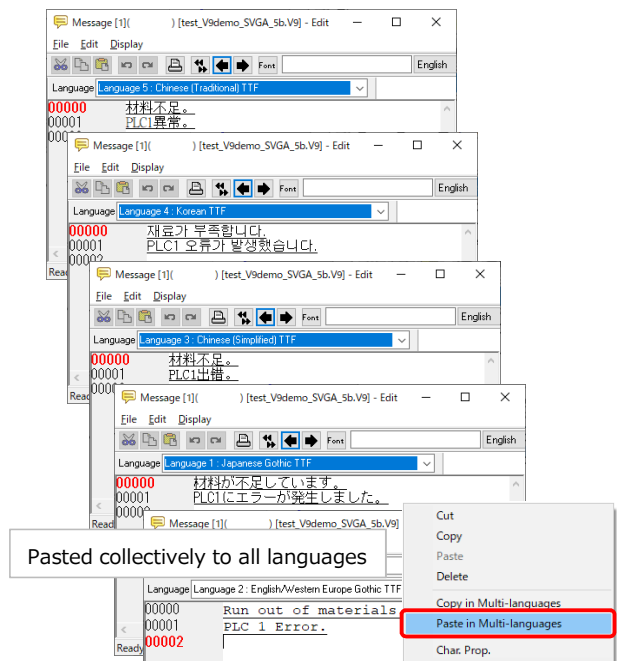
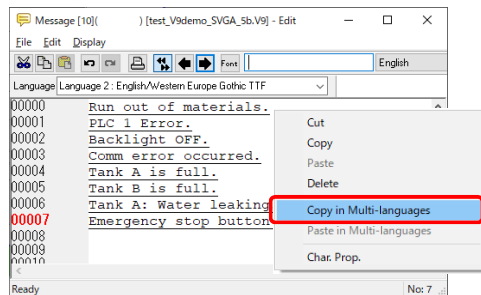<Setting location>
[Home] → [Registration Item] → [Message] → [Copy in Multi-languages] and [Paste in Multi-languages]

<Usage example>
Language 1: Japanese
Language 2: English
Language 3: Chinese (Simplified)
Language 4: Korean
Language 5: Chinese (Traditional)

<Note>
The [Undo] command cannot be used after multi-language pasting.

Pasted collectively to all languages

4 Tag-related specification improvements

■ Batch changing of tags

<Overview>
The [Batch Change Device (Tag)] window displays a list of tags that are used, and can be used to directly edit the device memory type and array element number of a tag name.
Since the device memory type and array element number of the same tag name are all updated together, this function is convenient if the tag is used in multiple locations.

For example, if there is a need to shift the array element number, just change the top element number and the change will be reflected to all subsequent numbers.
The range for applying changes can be specified from the [Option] button.

<Usage example>
Changing the element number of an array

Element numbers of the same tag are all incremented by 2

Same tag

Array element No. changed from [0] to [2]

Specify the target range.

<Applicable devices>
- OMRON: N series (EtherNet/IP)
- Siemens: S7-1200/1500 Tag (Ethernet ISOTCP)
- Siemens: S7-1200/1500 Optimized Tag (Ethernet ISOTCP)
- Allen-Bradley: ControlLogix/CompactLogix tag
- Allen-Bradley: ControlLogix/CompactLogix Tag (Ethernet TCP/IP)
- Allen-Bradley: Micro800 Controllers Tag
- Allen-Bradley: Micro800 Controllers Tag (Ethernet TCP/IP)
- BECKHOFF: Tag ADS Protocol (Ethernet)
- 3S-Smart Software Solutions: CODESYS V3 (Ethernet)

<Setting location>
- [Tool] → [Device] → [Batch Tag Change] or [Selected Item's Tag]
- Right-click menu of selected item → [Change Device (Tag)]

■ Multi copy: Structure, array element No.

<Overview>
When batch copying tags, the tag structure and array element number can be incremented.

<Applicable devices>
Same as "■ Batch changing of tags"

Editor

■ Deleting unused tags

<Overview>
Tags that are not used in the screen program can be batch deleted from the tag list.

<Applicable devices>
Same as "■ Batch changing of tags"

<Note>
Tags cannot be restored after deleted. If necessary, reimport them.
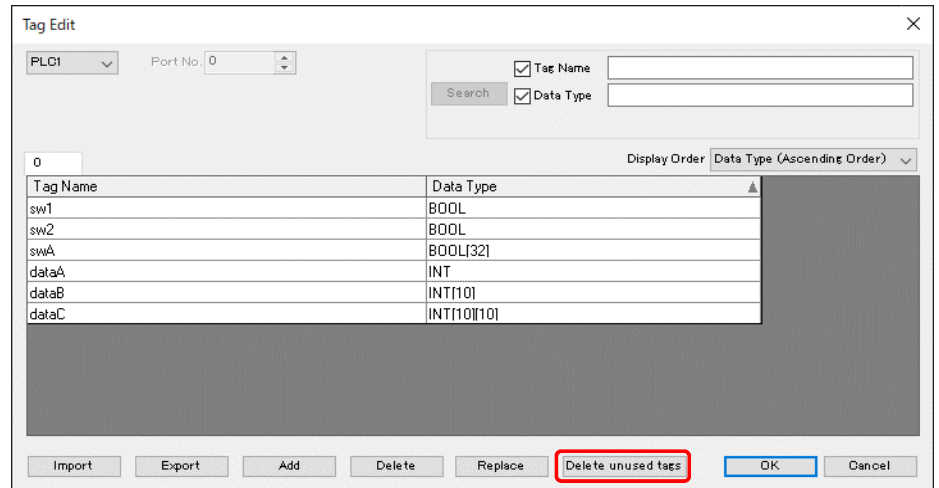
■ Siemens: Filter function for importing tags

<Overview>
Tags can be filtered when importing into a screen program.
There are three filter categories, and the selected tags in each category are imported by the AND condition.

<Applicable devices>
• Siemens: S7-1200/1500 Tag (Ethernet ISOTCP)
• Siemens: S7-1200/1500 Optimized Tag (Ethernet ISOTCP)

Example: Siemens: S7-1200/1500 Optimized Tag (Ethernet ISOTCP)
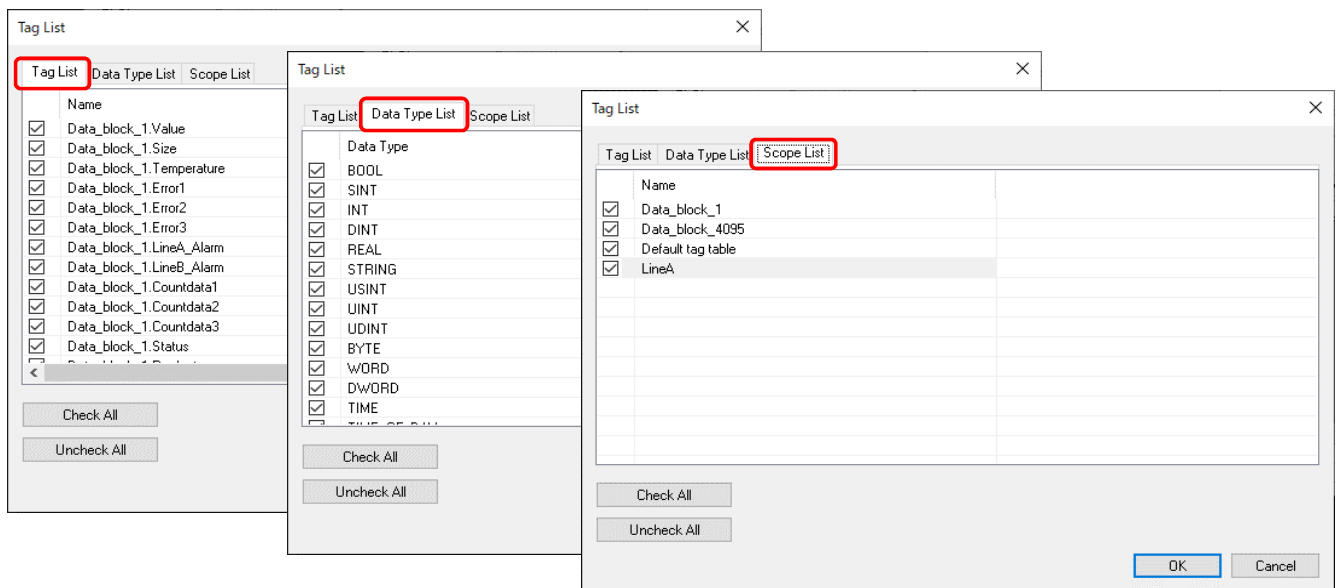
Other

1 Improvement of X1 series display at startup (indicator display)

Applicable model: X1

<Overview>
When the power is turned on, an indicator is displayed at the center of the screen so that the operator can tell at a glance that the unit is starting up.

V-SFT Ver. 6.1.8.0 Update Information

	V9	TSi/TS	V8i(N)/V8(N)	X1
System program	Ver. 2.700	Ver. 2.390	Ver. 2.390	Ver. 1.400 *2
OS	Ver. 4.70 *1			

*1 A storage device is required for the update.
*2 Please download the X1 update program from our website. For the update procedure, refer to the "Update Procedure" provided with the X1 update program.
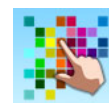
Connection

1 Connectable device extended specifications: MITSUBISHI ELECTRIC QnH(Q) series(Ethernet)

TCP/IP supported

Applicable model: V9/TSi/V8i(N)/X1
Device: MITSUBISHI ELECTRIC QnH (Q) series (Ethernet)

2 Additional connectable device: Automationdirect Direct LOGIC

Applicable model: V9/TSi/TS/V8i(N)/V8(N)/X1
Device: Automationdirect Direct LOGIC

3 Additional connectable device: Siemens S7-1200/1500 Optimized Tag (Ethernet ISOTCP)

Applicable model: V9/X1
Device: Siemens S7-1200/1500 Optimized Tag (Ethernet ISOTCP)
Outline: Access to DB with [Optimized block access] checked on the PLC software "TIA Portal" is possible.
Tag communication without real address is available.
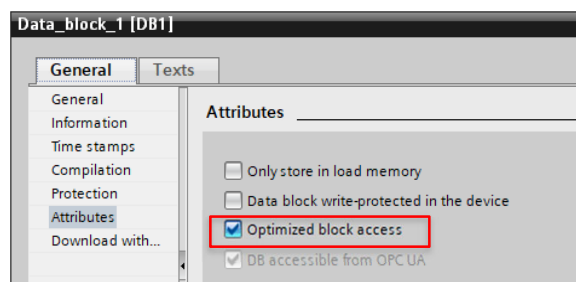
4 Additional connectable device: Fuji Electric FRENIC-MEGA(G2)(MODBUS RTU)

Applicable model: V9/TSi/TS/V8i(N)/V8(N)/X1
Device: Fuji Electric FRENIC-MEGA(G2)(MODBUS RTU)

MONITOUCH

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V-SFT Ver. 6.1.6.0 Update Information

	V9	TSi/TS	V8i(N)/V8(N)	X1	
System program	Ver. 2.600	Ver. 2.390	Ver. 2.390	Ver. 1.300 [*2]	
OS	Ver. 4.40 [*1]				

[*1] A storage device is required for the update.
[*2] Please download the X1 update program from our website. For the update procedure, refer to the "Update Procedure" provided with the X1 update program.

Connection

1 Additional connectable model: MITSUBISHI ELECTRIC FX5UJ series
    Applicable model: V9/TSi/TS/V8i(N)/V8(N)/X1
    Device: MITSUBISHI ELECTRIC FX5U/5UC series(Ethernet)
        MITSUBISHI ELECTRIC FX5U/5UC series

2 Additional connectable model: JTEKT TOYOPUC-Nano 10GX
    Applicable model: V9/TSi/V8i(N)/X1
    Device: JTEKT TOYOPUC-Nano(Ethernet)

3 Additional connectable device: Azbil NX(CPL)(Ethernet TCP/IP)
    Applicable model: V9/TSi/V8i(N)/X1
    Device: Azbil NX(CPL)(Ethernet TCP/IP)

4 Additional connectable device: SHINKO TECHNOS PCB1 Series
    Applicable model: V9/TSi/TS/V8i(N)/V8(N)/X1
    Device: SHINKO TECHNOS PCB1 Series

5 Additional connectable device: SHINKO TECHNOS JIR-301-M Series
    Applicable model: V9/TSi/TS/V8i(N)/V8(N)/X1
    Device: SHINKO TECHNOS JIR-301-M Series

6 Additional connectable device: SHINKO TECHNOS BCx2 Series
    Applicable model: V9/TSi/TS/V8i(N)/V8(N)/X1
    Device: SHINKO TECHNOS BCx2 Series

7 Connectable device extended specifications: Hitachi HIDIC-S10/ABS Multi-link 2(Ethernet) supported
    Applicable model: V9
    Device: Hitachi HIDIC-S10/ABS
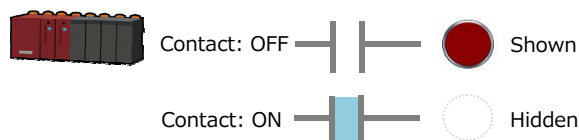
Function

1 Item show/hide function: Display condition "bit state OFF " supported
    Applicable model: V9/X1
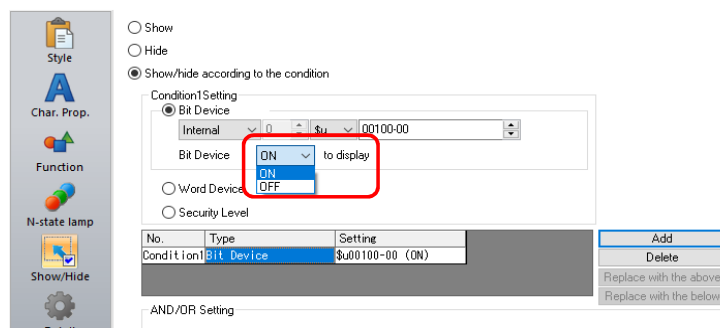
    <Overview>
    The OFF state is added to the display condition by bit device.
    The item can be shown with bit state OFF and hidden with bit state ON.
    Screen configuration is possible for each item according to the PLC ladder programs.

    Contact: OFF   Shown
    Contact: ON   Hidden

    <Setting location>
    Each item → [Show/Hide] → [Show/hide according to the condition]
    → [Bit Device OFF to display]

2 Alarm: Parameters extended from 8 to 32
    Applicable model: V9/X1

    <Overview>
    Up to 32 parameters can be registered per alarm device memory address in [System Setting] → [Alarm Server] → [Alarm Device] → [Parameter].

3 PDF viewer: Extended specifications

Applicable model: V9   * For details, refer to the V9 Series Reference Manual 2.

<Overview>
The location of the referenced PDF file can be specified with a switch function or PLC command.
In addition, file names can be specified in the device memory, so that the PDF viewer can be used according to user operations.

<Setting location>
When using a switch:
Switch settings window →
[Function: PDF Viewer Display]

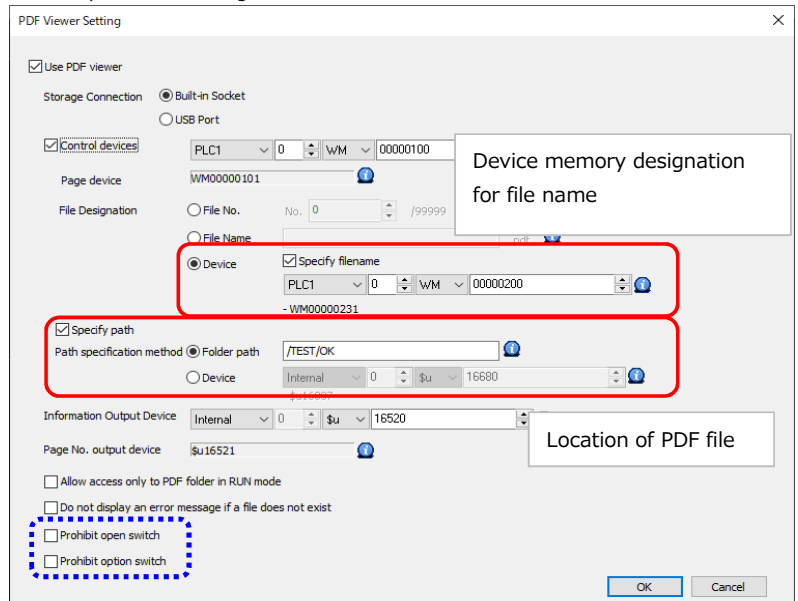**When using a PLC command:**
[System Setting] → [Other] → [PDF Viewer Setting]

<Remarks>
The [Open] or [Option] switch in the PDF viewer can be disabled.
Hiding unused switches in the PDF viewer prevents incorrect user operations.

Example: When using a PLC command

Device memory designation for file name

Location of PDF file

[Option] switch   [Open] switch

---

4 Macro command IF (MULTI): Extended specifications

Applicable model: V9/X1

<Overview>
The number of conditions for the IF (MULTI) macro command is extended from 2 to 4.
The reconditional branch macro command IFELSE (MULTI) can also be used during the IF (MULTI) command.
Each command requires only one line, even for complex processes with multiple conditions.

Red text: NEW !

Example: Reconditional branch IFELSE（MULTI）

IF((condition 1 AND/OR condition 2) AND/OR condition 3) AND/OR condition 4 THEN
  (1)
IFELSE ((condition a AND/OR condition b) AND/OR condition c)AND/OR condition d THEN
  (2)
ENDIF

Up to four conditions can be specified for each command.

<Example>
IF($u100 >= 100) OR ($u200 < 20) AND ($M0 >= 0) AND ($M0 < 10) THEN (W)
    condition 1   condition 2   condition 3   condition 4
  $u200 = $u200 + 1 (W)

IFELSE($u100 <= 0) OR ($u200 > 100) OR ($u300 == 0) OR ($u400 != 100) THEN (W)
    condition   condition b   condition c   condition
  $u100 = $u100 + 1 (W)

ENDIF

"$u200 = $u200 + 1" is executed when $u100 is greater than 100 (condition 1) or $u200 is less than 20 (condition 2) and $M0 is greater than 0 (condition 3) and less than 10 (condition 4).
If above four condition are not satisfied, execute IFELSE macro.
"$u100 = $u100 + 1" is executed when $u100 is less than 0 (condition a) or $u200 is grater than 100 (condition b) and $u300 is 0 (condition c) and $u400 is not 100 (condition d).
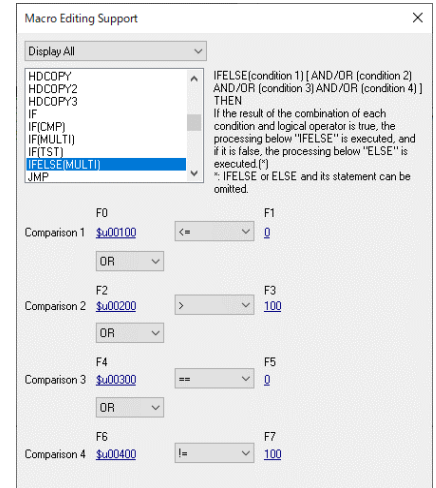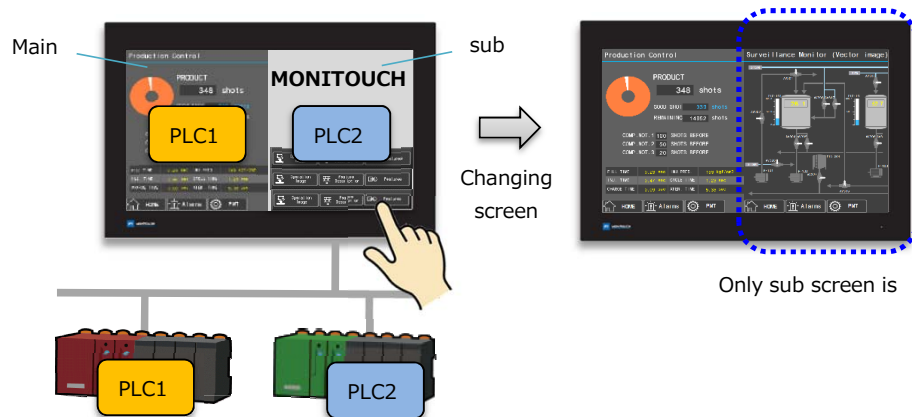
5 Multi-Display: 2-split screen

Applicable model: X1

<Overview>
  The X1 unit can launch two X1 apps and display the screens of each app side by side (landscape) or up and down (portrait).
  Both X1 apps can be displayed and operated separately. Space saving and further cost reduction are possible.
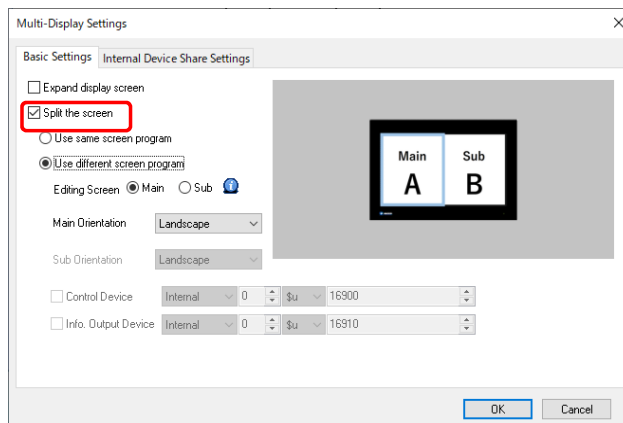
Portrait orientation is also available!

Main   sub

Changing screen

Only sub screen is

<Setting location>
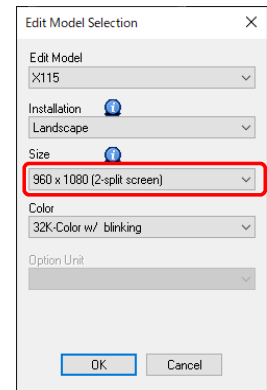 [System Setting] → [Other] → [Multi-Display Setting] → [Split the screen] checkbox
                                        or
  [System Setting] → [Hardware Setting] → [Multi-Display] → [Split the screen] checkbox

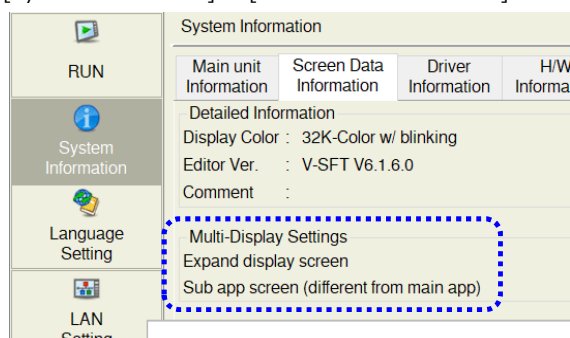* [Edit Model Selection] → [Size] will be cut in half.

* For details, refer to "15 Multi-Display" in the X1 Series Reference Manual 2.
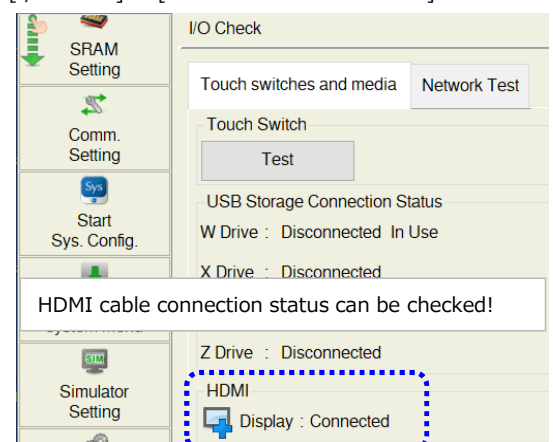
<Remarks>
  The status of Multi-Display settings and external display connection can be checked in Local mode.

  - [System Information] → [Screen Data Information]

It is possible to check the status of the multi-display settings and distinguish between the main screen and the sub screen!

  - [I/O Check] → [Touch switches and media]

HDMI cable connection status can be checked!

6 Starting applications:

Specifying the display position/window size, 2-split screen (area for user application)

Applicable model: X1

■ Specifying the display position/window size
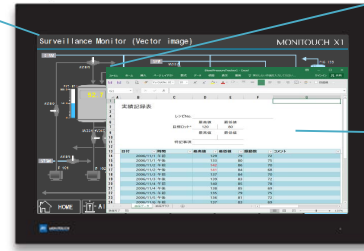
<Overview>

The display position and the window size can be specified.
User applications can run in desired display position and size according to the display layout.
Available for both switch function and PLC command.

Example: X115

(0, 0)

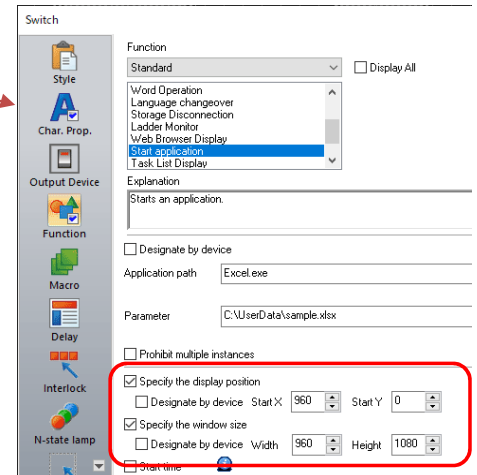Display position
X,Y （500, 250）

Window size
Width, Height
(1420, 830)
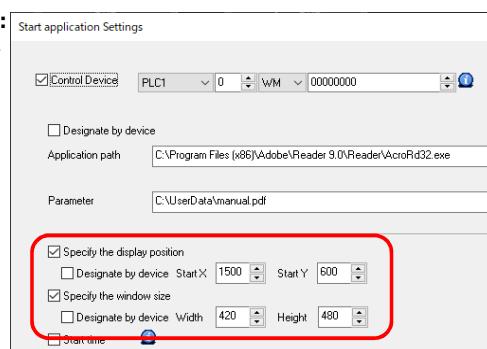
<Setting location>

When using a switch:

Switch settings window → [Function: Start application]
→ [Specify the display position], [Specify the window size]

When using a PLC command:

[System Setting] → [Other] →
[Start application Settings] →
[Specify the display position],
[Specify the window size]

### ■ 2-split screen (area for user application)

<Overview>

The display area of the X1 can be divided into two areas.
One area displays the X1 application and the other area displays the user application only.
Excel or databases containing product management data on the server can be displayed and operated any time without hiding the X1 app.
This function is used in conjunction with the display position/window size specification supported in this version.

Server

X1 app

User application area
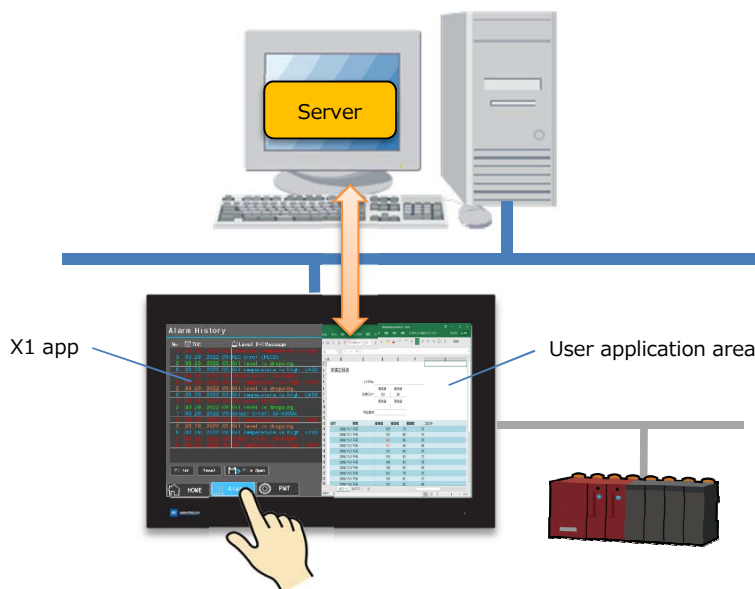
<How to use> Example: Launching a user application with a switch on X115

1. Select [960 x 1080(2-split screen)] at [System Setting] → [Edit Model Selection] → [Size].

2. Set the starting application. See above <Setting Location> "When using a switch:".

3. Transfer the screen data and tap the switch in step 2. Excel appears in the entire user application area.

* For details, refer to "8.4 Starting Applications" in the X1 Series Reference Manual 2.
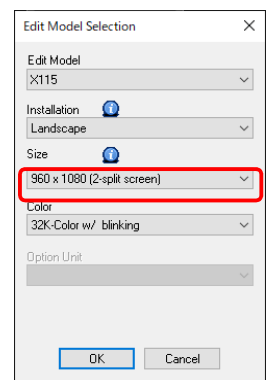
## 7 X1 app: External USB storage supported

Applicable model: X1

<Overview>
USB memory can be accessed directly from the X1 application as well as Windows.
So, the following operations are now possible with X1.
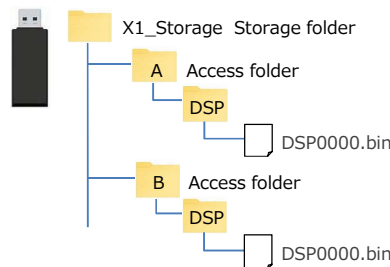The drive names for USB ports 1-4 on X1 are fixed W-Z.

♦ Destination for saving each function, copying and moving folders and files

USB memory can be use as the output target of logging/alarm backup files.
Folders and files can be copied and moved between storage devices by using the COPY_FILE macro etc.
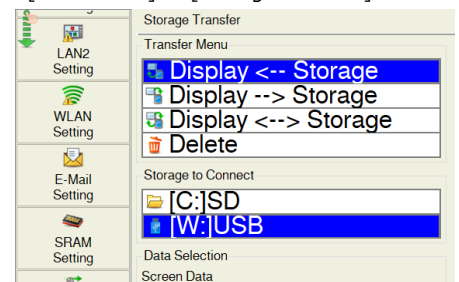
1: W drive   3: Y drive
2: X drive   4: Z drive

Internal storage

sd   usb

.CSV

External USB storage
USB memory
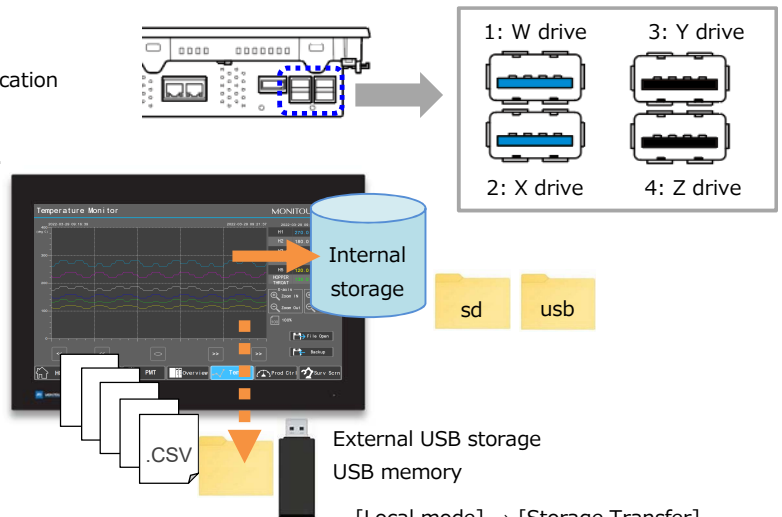
♦ Screen data transfer in Local mode

Since multiple screen data can be stored in the storage device, the desired screen data can be selected and changed in the Local mode when it is necessary.
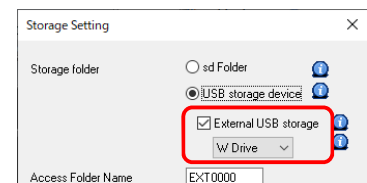
X1_Storage Storage folder

A Access folder
DSP
DSP0000.bin

B Access folder
DSP
DSP0000.bin

[Local mode] → [Storage Transfer]

LAN2 Setting
WLAN Setting
E-Mail Setting
SRAM Setting

Storage Transfer
Transfer Menu
Display <-- Storage
Display --> Storage
Display <--> Storage
Delete
Storage to Connect
[C:]SD
[W:]USB
Data Selection
Screen Data

<Necessary setting>
Specify the drive at [System Setting] → [Other] → [Storage Setting] → [External USB storage]

Storage Setting
Storage folder
  ○ sd Folder
  ● USB storage device
  ☑ External USB storage
  W Drive
Access Folder Name   EXT0000

* For details, refer to "9 Storage" in the X1 Series Reference Manual 2.

8 Task list and on-screen keyboard: Display method added

Applicable model: X1

<Overview>
Task list and on-screen keyboard can be displayed with a switch function or PLC Command.
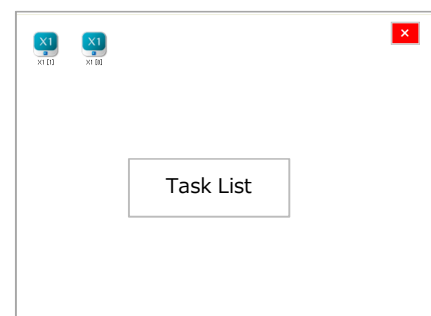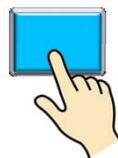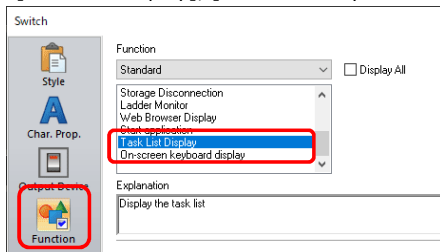They can be displayed on any screen or at any time regardless of the [Task List] or [System Keyboard] settings on the system configurator screen.

<Setting location>
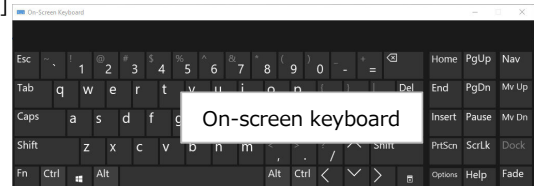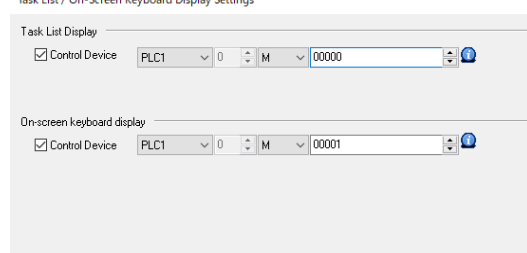**When using a switch:**
Switch settings window → [Function]
→ [Task List Display], [On-screen keyboard display]

Switch
Style
Char. Prop.
Function

Function
Standard
☐ Display All
Storage Disconnection
Ladder Monitor
Web Browser Display
Start application
Task List Display
On-screen keyboard display
Explanation
Display the task list

X1 [ ]   X1 [ ]

Task List

When using a PLC command:
[System Setting] → [Other] → [Task List / On-Screen Keyboard Display Settings]

Task List / On-Screen Keyboard Display Settings

Task List Display
☑ Control Device   PLC1   0   M   00000

On-screen keyboard display
☑ Control Device   PLC1   0   M   00001

On-Screen Keyboard

Esc ` 1 2 3 4 5 6 7 8 9 0 - = ⌫   Home PgUp Nav
Tab q w e r t y u i o p   Del   End PgDn Mv Up
Caps a s d f g   On-screen keyboard   Insert Pause Mv Dn
Shift z x c v b n m   Shift   PrtScn ScrLk Dock
Fn Ctrl Alt   Alt Ctrl ‹ ˅ ˄ ›   Options Help Fade

* For details, refer to "8.7 Task List / On-Screen Keyboard Display" in the X1 Series Reference Manual 2.

9 Write filter: Applicable area expanded

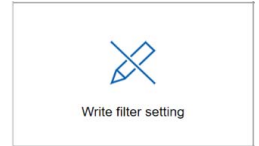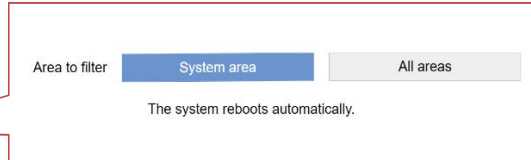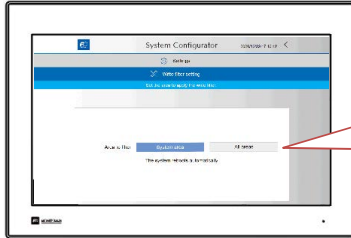Applicable model: X1

<Overview>
  All areas of the internal storage can be write-protected to protect X1 against unauthorized writing
  from external devices.
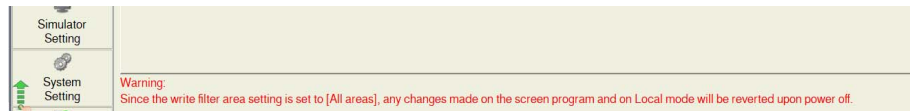 The applicable area of the conventional write filter is the system area only (default).

Write filter setting

<Setting location>
  System Configurator → [Setting] → [Write filter setting] → [Advanced settings] → [Set the area to filter]

Area to filter	System area	All areas

The system reboots automatically.

* When [All areas] is selected, the following message appears at lower part of Local mode.

Warning:
Since the write filter area setting is set to [All areas], any changes made on the screen program and on Local mode will be reverted upon power off.

  * For details, refer to the X1 Hardware Specifications Manual.

1 Microsoft Windows 11 supported

<Overview>
Microsoft Windows 11 supported.

---

2 Tag edit window: Batch change of tag names

<Overview>
The registered tag names can be batch changed using [Replace] in the tag edit window.

<Connectable devices>
OMRON
- NJ Series(EtherNet/IP)

BECKHOFF
- Tag ADS Protocol(Ethernet)

Allen-Bradley
- ControlLogix/CompactLogix Tag
- ControlLogix/CompactLogix Tag(Ethernet TCP/IP)
- Micro800 Controllers Tag
- Micro800 Controllers Tag(Ethernet TCP/IP)

3S-Smart SoftwareSolutions
・CODESYS V3(Ethernet)

---

3 Tag database: Siemens PLC software TIA Portal Ver. 17 supported

Tags can be imported from TIA project files (*.ap17) created with Siemens software TIA portal Ver. 17.

---

4 File comparing: Direct editing for comparison target file

<Overview>
Comparison target screens can be opened from the [File Comparing [Detail]] window of the comparison results to edit the mismatched items and save them directly. Since re-comparison can be easily performed after saving, the mismatched items can be searched and the file can be edited and saved with a simple operation.

<Operation method>
After comparing the files, double-click on the mismatched item in the comparison window.

Re-compare files

Double-click

[Text comparison] must be checked when comparing files.

Double-click

Edit and save screens

MONI TOUCH

* For details, refer to the V9 Operation Manual.

5 V-SFT title bar: Displaying the file name at the top
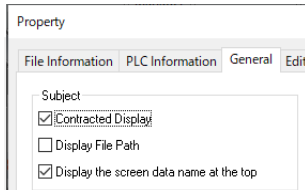
<Overview>
The screen data file name appears at the beginning of the title bar information. You can easily see the file name being edited.

<Setting procedure>
Select [Display the screen data name at the top] in [File] → [Property] → [General].

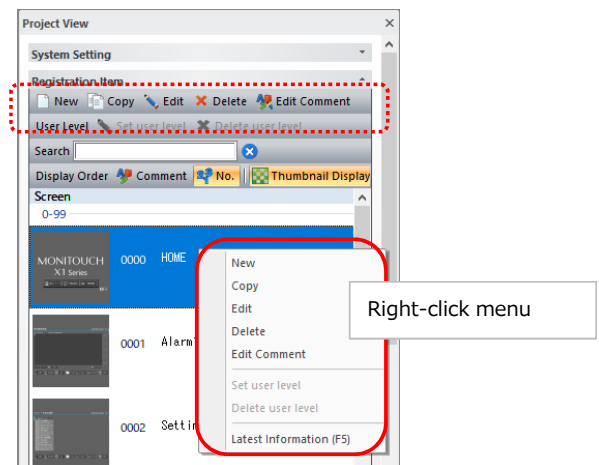Example: When setting the following

The file name moves to the beginning.

[X112Wdemo_2.X1] - Screen [0] (HOME)

File　Home　Parts　Edit　View　Screen Setting　Transfer　System Setting　Tool　Help

Property

File Information　PLC Information　General　Edit

Subject
☑ Contracted Display
☐ Display File Path
☑ Display the screen data name at the top

* For details, refer to the V9 Operation Manual.

6 Project view: Operability improvement

<Overview>
The menu at the upper part of the project view can be also selected from right-click menu.

Project View

System Setting

Registration Item
New　Copy　Edit　Delete　Edit Comment
User Level　Set user level　Delete user level

Search

Display Order　Comment　No.　Thumbnail Display

Screen
0-99

MONITOUCH
X1 Series　0000　HOME

New
Copy
Edit
Delete
Edit Comment

Set user level
Delete user level

Latest Information (F5)

0001　Alarm

Right-click menu

0002　Setting

7 Multi display: Improved specifications for reading screen data
Applicable model:　X1

<Overview>
If the screen data with multi-display settings has been transferred to the X1 unit *, you can select which screen data to read when reading the screen data from the X1 unit.

VSft60　×

❓ Which screen to upload, Main or Sub?

Main　Sub　Cancel
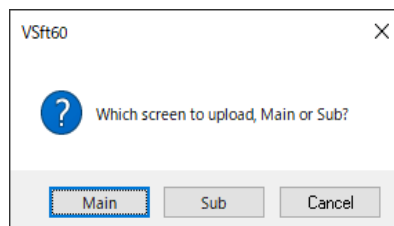
* This feature is available only for the screen data selected [Use different screen program] in [System Setting] → [Other] → [Multi-Display Settings].

V-SFT Ver. 6.1.3.0 Update Information

	V9	TSi/TS	V8i(N)/V8(N)	X1	
System program	Ver. 2.400	Ver. 2.380	Ver. 2.380	Ver. 1.200 *	
OS	Ver. 4.20				

* Please download the X1 update program from our website. For the update procedure, refer to the "Update Procedure" provided with the X1 update program.

Connection

1 Additional connectable device: MITSUBISHI ELECTRIC QnU series (Built-in Ethernet ASCII)

Applicable model: V9/TSi/V8i(N)/X1
Device: MITSUBISHI ELECTRIC QnU series (Built-in Ethernet ASCII)

2 Additional connectable model: MITSUBISHI ELECTRIC Q170 series (Multi CPU) Ethernet unit

Applicable model: V9/X1
Device: MITSUBISHI ELECTRIC Q170 series (Multi CPU) (Ethernet)

3 Additional connectable model: MITSUBISHI ELECTRIC Communication adapter FX3U-ENET-ADP

Applicable model: V9/TSi/V8i(N)/X1
Device: MITSUBISHI ELECTRIC FX3U/3GE series (Ethernet)

4 Connectable device extended specifications: JTEKT TOYOPUC (Ethernet PC10 Mode) TCP/IP communication supported

Applicable model: V9/TSi/V8i(N)/X1
Device: TOYOPUC (Ethernet PC10 Mode)

5 Additional connectable device: RFID controller (Stepless protocol)

Applicable model: V9/TSi/TS/V8i(N)/V8(N)/X1
Device: Other RFID controller (Stepless protocol)

6 Additional connectable model: Printer OKI COREFIDO B432dnw

Applicable model: V9   *** Updating of the operation system is necessary.**
Device: Printer OKI COREFIDO
Device model: B432dnw only
Connection method: USB A, LAN
Printable items: Screen hard copies, logging data printing, data sheet printing (including expanded), printing using the "OUT_PR" macro command   * Same as ESC/P-R and HPLIP

Function

1 Switch: Overlap dismissing function

Applicable model: V9/X1

<Overview>
An overlap display can be dismissed without specifying the overlap ID number.
Even if a different multi-overlap display ID number is registered on
each screen, there is no need to consider the registration status.

<Setting location>
Switch settings window → [Function] → [Hide the overlap where this
switch is placed] checkbox

<Conditions>
This function is valid when the
overlap display has a switch with
the above checkbox selected.
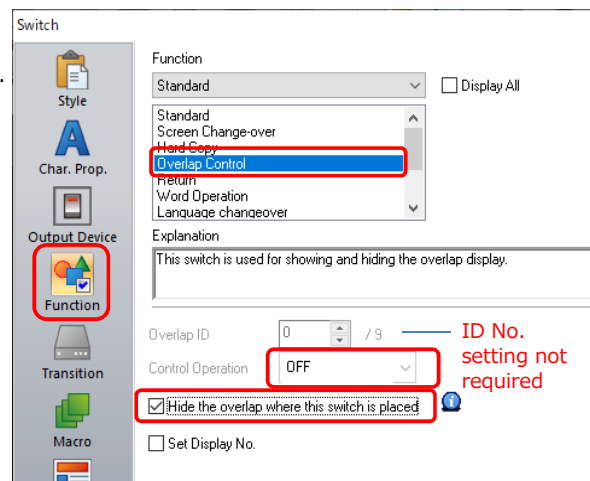
2 Data display: Selection of entry target
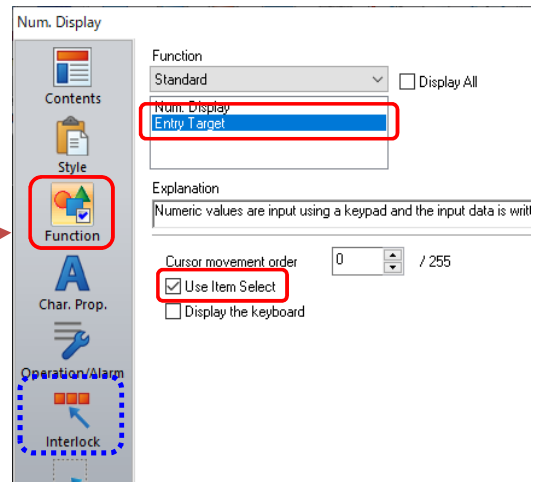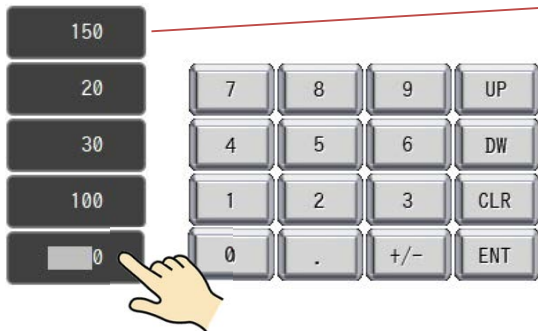
Applicable model: V9/X1

<Overview>
When a keypad and entry targets (numerical data display or character display) are placed on a screen, the cursor can be moved by tapping an entry target.
Overlaying of a transparent switch with the [Item Select] function is no longer necessary, simplifying screen configuration.
Interlock settings are also possible.

<Setting location>
Numerical data display or character display settings window → [Function] → [Use Item Select] checkbox

3 Trend graph: Always display function

Applicable model: V9/X1

<Overview>
A trend graph can be displayed at all times by simply setting the number of points to display using control device memory.
Since the conventional bit for "redraw" or "redraw after clear"* is not used, ladder control is not required.
  * 14th and 15th bit of the control device memory address

<Setting location>
Trend graph settings window → [Graph Setting] → [Always display] checkbox
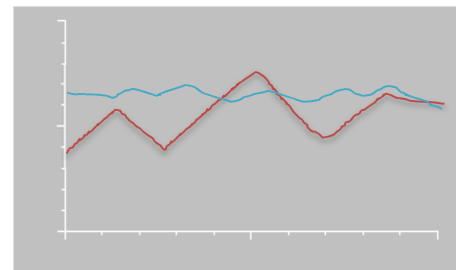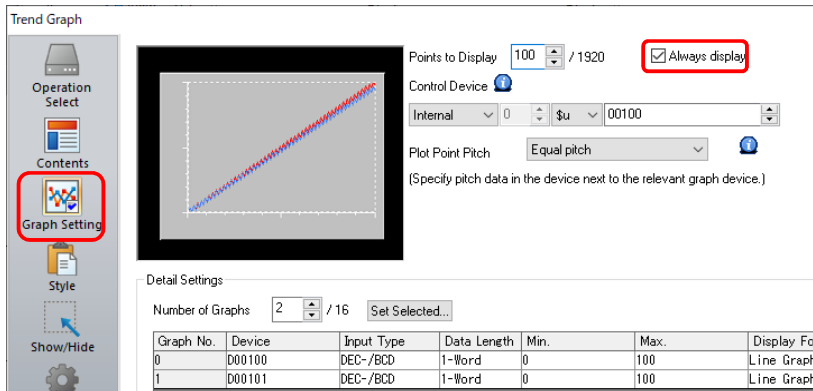
Set "100" (number of display points) for control device memory $u100.

<Remarks>
When using parent and child trend graphs, the [Always display] setting of the parent trend graph will also apply to the child trend graph.

4 USB camera: Portrait orientation supported

Applicable model: V9

<Overview>
USB cameras can now be used even when the V9 series unit is in the portrait orientation.

5 Network camera: Rotating and saving of snapshot images $s976

Applicable model: V9

<Overview>
Snapshots can be rotated and saved.

<Method>
Set the following value to $s976 and take a snapshot.
        0: No rotation
        1: 90 degrees clockwise
        2: 180 degrees
        3: 90 degrees counterclockwise

Saved after rotating 90° counterclockwise

(2) Take a snapshot

(1) Set "3" for $s976
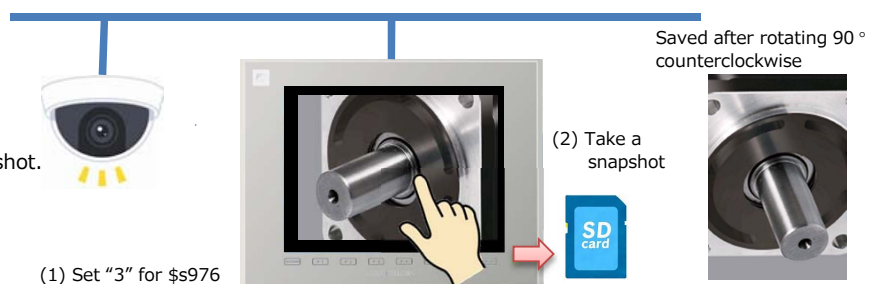
6 Expanded data sheet: Improvement of text

Applicable model: V9/X1

* For details. refer to the V9 Series Macro Reference Manual.

<Overview>
Conventionally, text was output as an image to a PDF file for expanded data sheets. Now, TrueType font can be used for output.

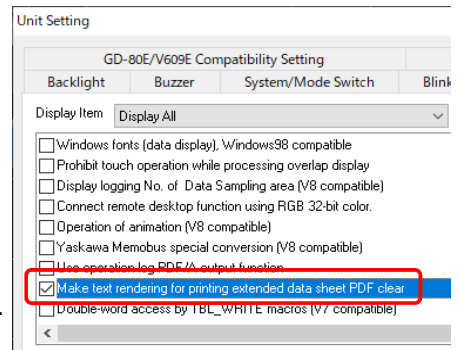Example: ♦ Setting not selected   ♦ Setting selected

<Setting location>
[System Setting] → [Unit Setting] → [General Setting] → [Make text rendering for printing extended data sheet PDF clear] checkbox

<Conditions for use>
- [TrueType font] is selected at [System Setting] → [Multi-language Setting] → [Font Type].
- Windows fonts are not supported.

---

7 Logging: Acquisition of values at cursor point from backup files

Applicable model: V9/X1

<Overview>
When a backup file saved in storage is displayed, the data selected by the cursor can be acquired.

<Supported macro commands>
- SAMPLE
- SYS(GET_SMPL)/SYS(GET_SCUR) * V8 compatible   * For details, refer to the V9 Series Macro Reference Manual.

---

8 Data transfer service: Extended specifications

Applicable model: V9

■ Transferring empty folders

<Overview>
When downloading data, even empty folders are downloaded.

<Conditions>
[Transfer] is set to [Folder-based download].

<Setting location>
[System Setting] → [Data transfer service] → [Data Transfer Service Settings] → [Transfer empty folders as well] checkbox of a record

■ Outputting transfer results to information output device memory

<Overview>
Transfer results are output to information output device memory "n+2" (for cloud, "n+4").

<Setting location>
[System Setting] → [Data transfer service] → [Data Transfer Service Settings] → [Output transfer result to information output device] checkbox
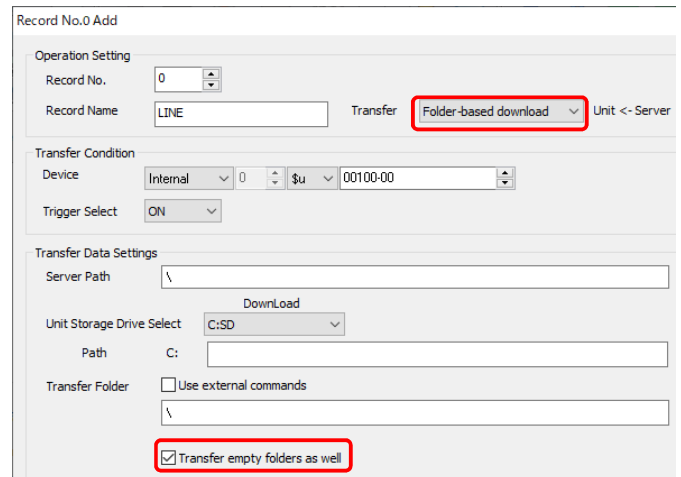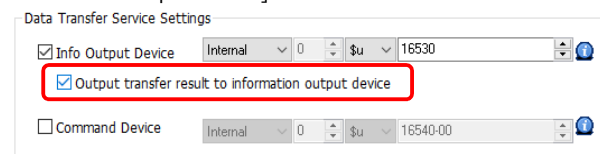
Information output device memory "n+2" (for cloud, "n+4")

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0	0	0	0	0	0	0	0	0	0	0	0				

Download ended in error ——
Upload ended in error ——
Download successful ——
Upload successful ——

* For details, refer to the V9 Series Reference Manual 2.

---

9 Transfer: Prohibition of uploading screen programs

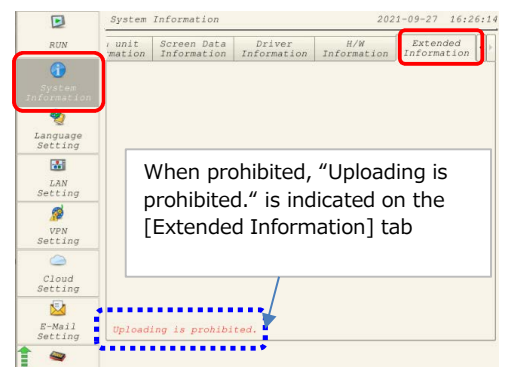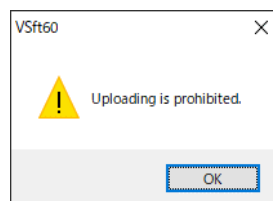Applicable model: V9

<Overview>
Uploading of a screen program from the V9 series unit to a computer or any storage device can be prohibited to prevent the leaking of screen programs.

<Setting method>
1. Click [File] → [Property] → [Transfer] and select the [Prohibit the screen data
2. Transfer the screen program to the V9 series unit.

<Cancelling the setting>
Transfer a screen program with the [Prohibit the screen data upload] checkbox deselected.

When prohibited, "Uploading is prohibited." is indicated on the [Extended Information] tab

10 Tags: Alarm, operation, and scaling functions

Applicable model: TSi/TS/V8i(N)/V8(N) * For V9 and X1, these functions are supported from V-SFT Ver. 6.1.1.0.

<Overview>
Alarm, operation, and scaling functions can be used for device memory specified for tags.
The data necessary for operations does not need to be processed by a PLC or by using macros, and only the tag needs to be edited when a device memory address is used in multiple locations, thereby contributing to reduction of work hours.

<Applicable items>
Numerical data display

<Setting location>
- Tag: Click [Home] → [Registration Item] → [Tag Database], and then double-click the [Conversion] cell.

- Numerical data display: Click [Contents] and select the [Use tag operation/scaling/alarm] checkbox under [Device to Display].

11 X1: Portrait orientation supported (90 degrees clockwise only)

Applicable model: X1

<Overview>
Portrait orientation for the X1 series is now supported.
The Local mode screen and System Configurator screen are also displayed in portrait orientation.

<Conditions for use>
Portrait orientation only by turning 90 degrees clockwise is supported.
* Power supply at top
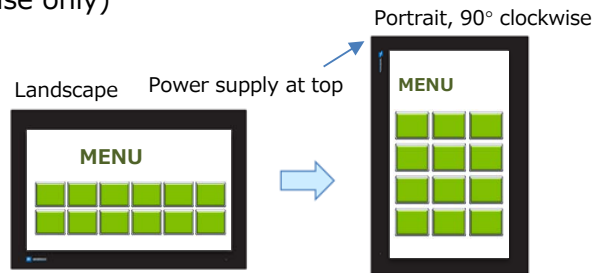
12 X1: Extended specifications for starting applications

Applicable model: X1

<Overview>
Specifications are extended as described below.
Since macros are not used, startup settings are made easy and the specification of the startup timing and device memory for startup details is more flexible.
- Startup using a switch or PLC command
- Specification of the path and parameter of the app to start using device memory
- Prevention of starting multiple instances of the same file

<Setting location>
When using a switch
Switch settings window → [Function] → [Start application]
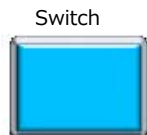
Prevents multiple instances of a file.

When using a PLC command
[System Setting] → [Other] → [Start application Settings] → [Control Device] checkbox

1: Multi-instance prohibition*

0 → 1 (edge): Startup

* Prevents multiple instances of a file.

## 13 X1: Multi-display function supported

Applicable model: X1

<Overview>
By connecting a display to the X1 unit using an HDMI cable, the X1 unit and display can both display screens and be operated independently.[*]
A large display can be used to notify people on site that an error has occurred or of information such as the production quantity and number of defects. It can also be used side-by-side with the X1 unit to increase the information that can be displayed and checked at a time, thereby improving work efficiency.

* If this function is used without using an HDMI cable, the screen will simply be duplicated
  (same screen displayed on X1 unit and display).

♦ Displaying different screens on X1 and display
  The information that can be checked at one time can be increased.

Planned quantity   10000
Current count   2500
Defect count   1

HDMI cable

MONITOUCH X1 Series
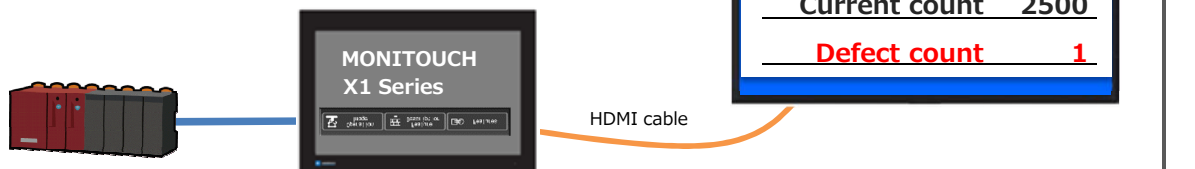
♦ Installing the X1 and a display in portrait orientation
  Installation according to the environment and allowable space on site is possible.

HDMI cable

System Monitor

MONITOUCH X1 Series

♦ Using a display with touch switches
  By connecting a USB cable, touch operations on the display are possible.

HDMI cable

USB cable

MONITOUCH X1 Series
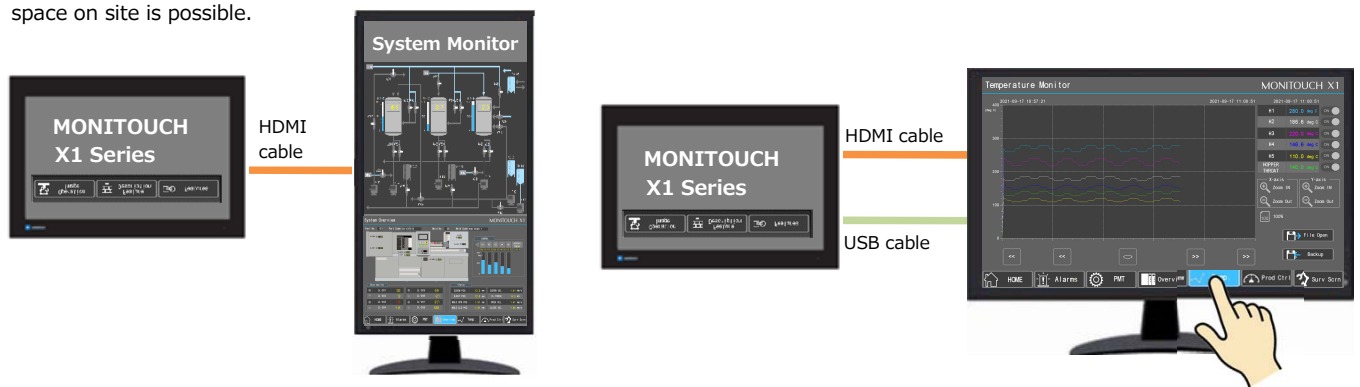
♦ Selection of displaying the same screen program or different screen programs on the X1 and display
  Usage according to the user's purpose is possible.

Using the same screen program

A.x1

Different screens of the same screen program can be displayed!

MONITOUCH X1 Series

Using different screen programs

A.x1   B.x1

MONITOUCH X1 Series
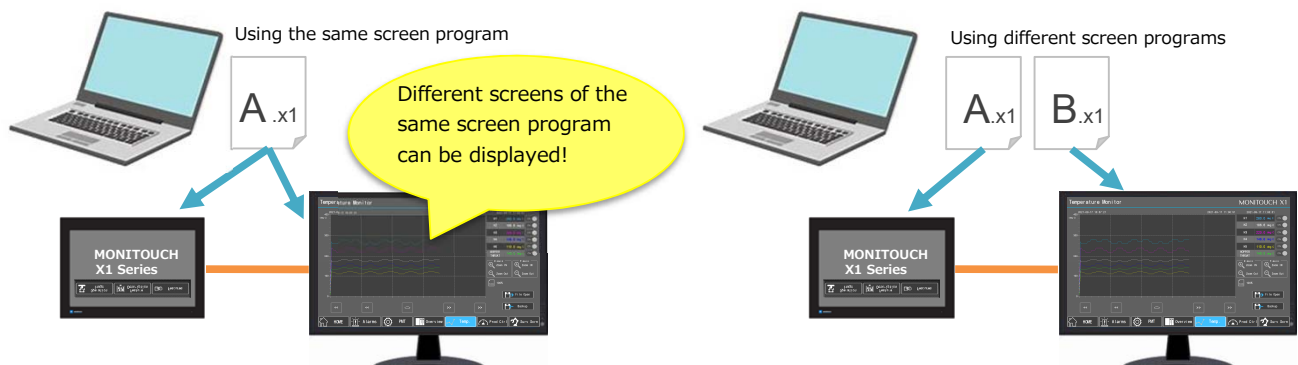
<Setting location>
[System Setting] → [Other] → [Multi-Display Settings]

* For details, refer to the X1 Series Reference Manual 2.

14 Touch switch emulation (RGB input): Windows 10 supported

Applicable model: V8i(N) + GU-xx (RGB-IN)   * For V9, this function is supported from V-SFT Ver. 6.1.1.0.

<Overview>
When using a computer with a Windows 10 operating system, touch switch emulation is possible by using DMC's touch panel driver "DMT-DD".

<Required items>
DMC's touch panel driver "DMT-DD"
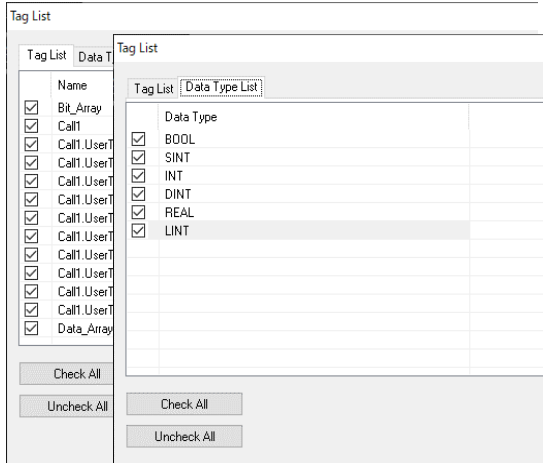For details, refer to the V9 Series Reference Manual 2.

1 Extended specifications for Allen-Bradley tags

<Overview>
Editor specifications are improved as follows:
- PLC1 to PLC8 supported
- Import by selecting a tag name and AND conditions supported
- Tag searching, list display, editing/deleting supported
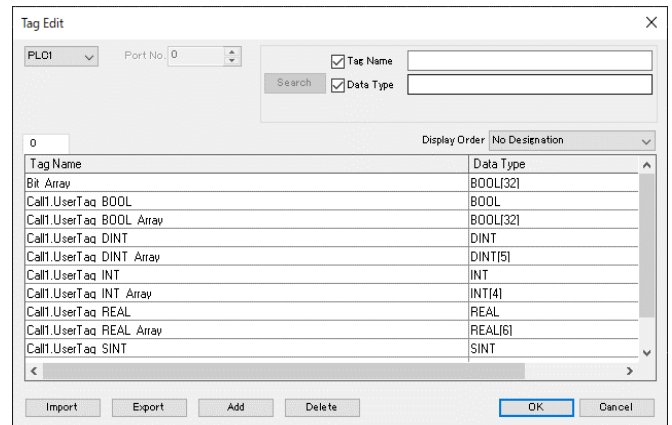Data type and range settings as well as performance are also improved.

<Connectable devices> All NEW!
- ControlLogix/CompactLogix tag
- ControlLogix tag (Ethernet TCP/IP)
- Micro800 Controllers tag
- Micro800 Controllers tag (Ethernet TCP/IP)
  * Conversion from a conventional PLC model to the above models can be done easily.

Importing using AND conditions

Tag editing (search, edit/delete)

---

2 Saving the filename of the screen program

<Overview>
The filename of a screen program can be saved within the screen program. When a screen program is exported from MONITOUCH, the screen program can be saved using the filename that the screen program was named with before transfer.
This function is convenient because when controlling screen programs by filename, the original screen program data can be determined from the filename.

<Setting procedure>
Click [File] → [Property] → [File information], select the [Save] checkbox, and then transfer the screen program to MONITOUCH.

♦ Before transfer: File path indicated under [File Name]   ♦ After exporting from MONITOUCH

[Save] selected

[Save] deselected
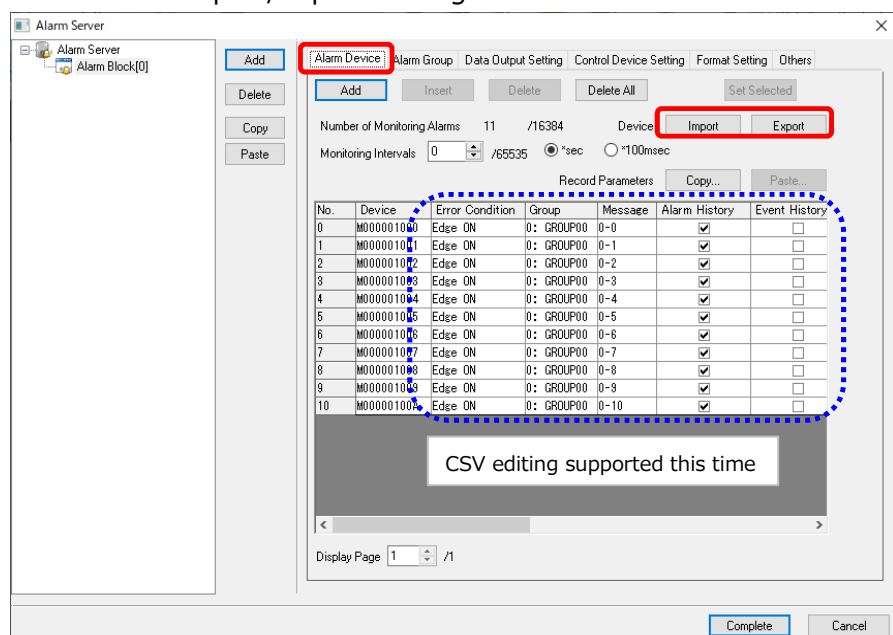The file is named "No Title.V9".

---
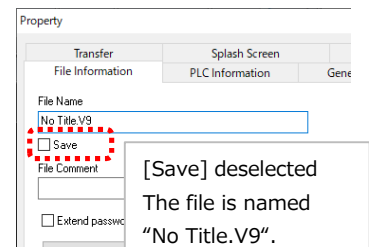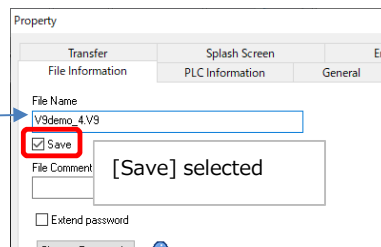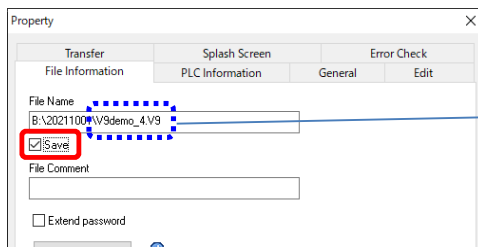
3 Alarm server: Extended specifications for import/export editing

<Overview>
Editing of alarm server items other than "Device" can now also be edited on a CSV file.

<Setting location>
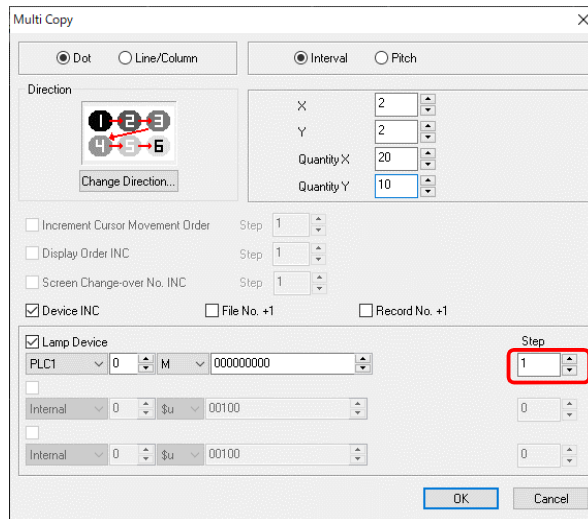[System Setting] → [Alarm Server] → [Alarm Device]

CSV editing supported this time

* For details, refer to the V9 Series Reference Manual 1.

4   Multi copy: Extension of device memory incrementing range

<Overview>
  The step range for incrementing device memory addresses
  for the multi-copy function is now extended to 1 to 65535.

Set within 1 to
65535.

---

5   Extension of range for patterns and 3D part bitmap areas

  Applicable model: V9/X1

  <Overview>
   The range for patterns and 3D part bitmap areas is extended.

Patterns: 1024 → 4096
3D part bitmap areas: 1023 → 4095

---

6   TELLUS Ver. 4: PLC connection port "LAN2" supported

<Overview>
  When TELLUS Ver. 4 is selected on the [Edit Model Selection] window, the
  [Target Port No.] for a PLC can be set to "LAN2".
  If using TELLUS-HMI on a computer with two LAN ports, communication on
  each network is possible.
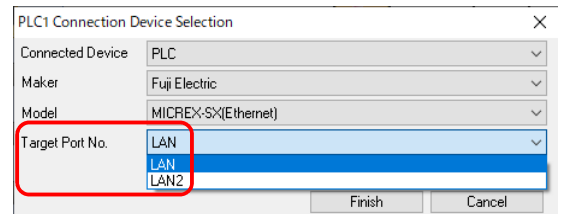
  * This setting is available for TELLUS Ver. 4.0.11.0, which is scheduled for release in November 2021.

MONITOUCH

V-SFT Ver. 6.1.1.0 Update Information

	V9	TS	V8(N)	X1	
System program	Ver. 2.300	Ver. 2.360	Ver. 2.360	Ver. 1.100 *	
OS	Ver. 4.10				

* Please download the update program for X1 from the website. Refer to the "X1 Setup Manual" for the update procedure.

Connection

1 Additional connectable device: Hitachi HIDIC-S10/ABS

  Model: V9/TS/V8(N)/X1
  PLC Model: Hitachi HIDIC-S10/ABS

2 Additional connectable device: SHINKO TECHNOS PCA1 Series

  Model: V9/TS/V8(N)/X1
  PLC Model: SHINKO TECHNOS PCA1 Series

3 Connectable device extended specifications: BECKHOFF ADS Protocol (Ethernet) KeepAlive supported

  Model: TSi/V8i(N)
  PLC Model: BECKHOFF ADS Protocol (Ethernet)
      BECKHOFF Tag ADS Protocol (Ethernet)

Function

1 N-state lamp

  Model: V9/TS/X1

  [Outline]
   - Any device can be set for each pattern.
   - Lamp ON condition can be specified up to 4
    without programming macro etc.
    Condition: OR, AND, range setting etc.

   E.g.) No. of Lamp patterns: 4

Device:	M0	M0	X1	Y10
Pattern:	OFF	ON	P3	P4

  * ON condition can be set up to 4 for each pattern
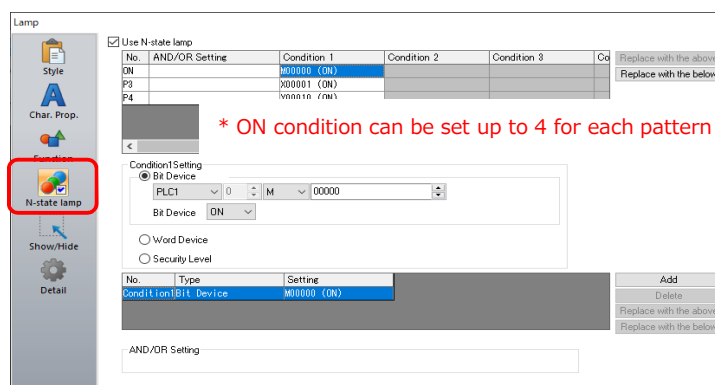
2 Video Player: Storage switching function

  Model: V9

  [Outline]
   It is possible to switch storage (SD/USB) in Video Player.
   After selecting the storage, you can freely select a folder/file.
   Video files recorded upon alarm occurrence
   can also be selected and played back.
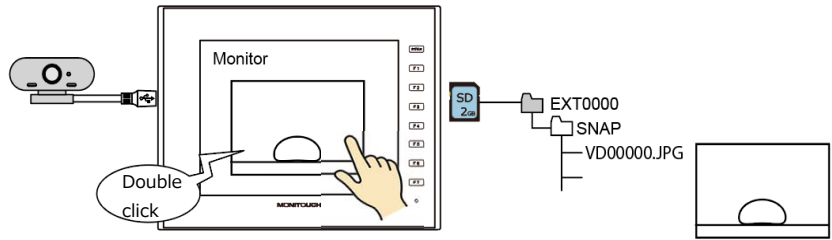
   Default: Access folder/VIDEO

  Switch storage
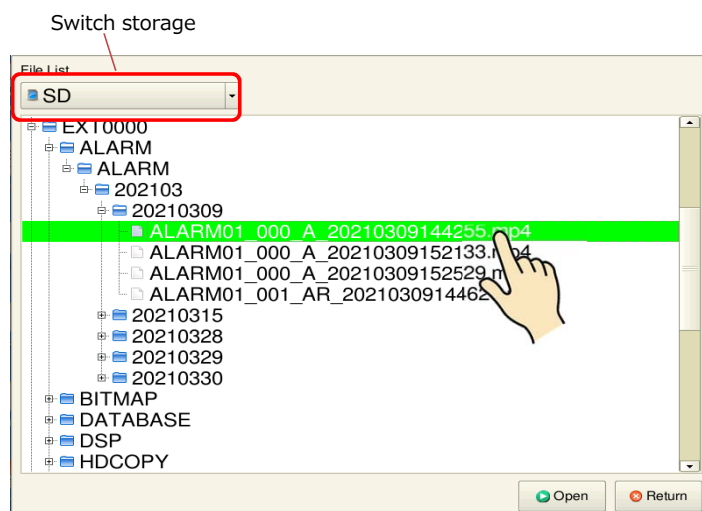
3 USB Camera: Snap function

Model: V9

[Outline]
Real-time display images can be saved as image files by using a USB camera. Macro commands are also supported so it is possible to execute a command at the desired timing of the user.
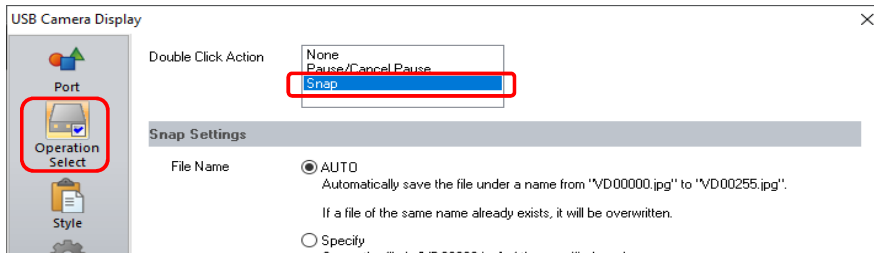

Double click

[File format]
JPEG file

[Execution timing]
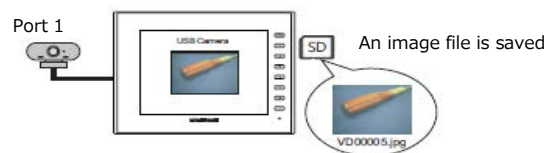- Double click action of USB Camera Display
- USBCAM macro command

[Setting]
- Double click: USB Camera setting dialog > [Operation Select] > [Double Click Action: Snap]

- USBCAM macro command

	Value
F0	SNAP
F1	PORT1 (Fixed)
F2	VD00000~32767 (File No.)
	Auto

E.g. Execute "USBCAM SNAP PORT1 VD00005"

Port 1

An image file is saved

VD00005.jpg

4 Picture Viewer

Model: V9/X1

[Outline]
Image files stored in the storage can be displayed on the picture viewer. (File type: JPEG, bitmap, and PNG)
Since you can switch a storage and select folder/file on the viewer,
not only image files prepared by the user but image files generated by V9, such as snapshots from USB cameras, can be displayed.

[Supported file format]
- JPEG file (*.JPG)
- Bitmap file (*.BMP)
- PNG file (*.PNG)

[How to display the viewer]
- "Picture Viewer" switch in system menu (can also be displayed in local menu)
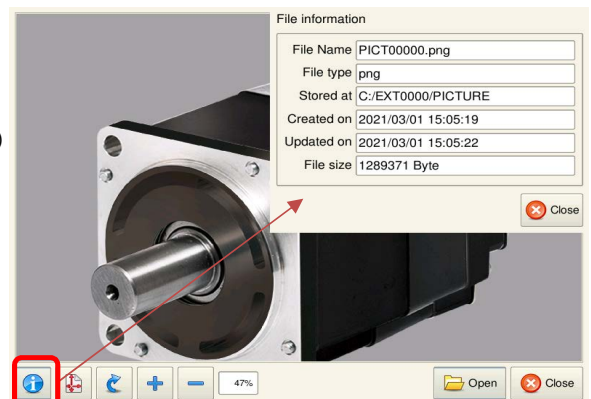- Switch function "Picture Viewer Display"
- PLC command

Picture viewer   File information can be confirmed.

[Setting]
[System Setting] > [Other] > [Picture Viewer Setting]

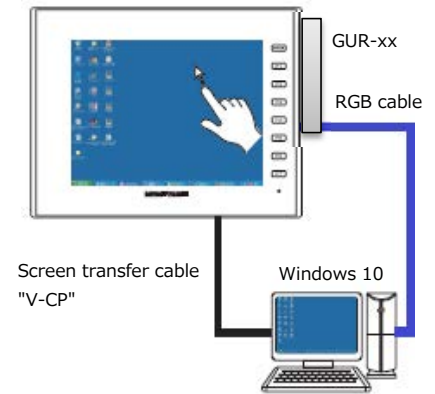**5** Touch switch emulation (RGB input): Windows 10 supported

Model: V9+GUR-xx (RGB-IN)

[Outline]
When using a Windows 10 PC,
touch switch emulation is available with the DMC touch panel driver "DMT-DD".

[Requirement]
DMC touch panel driver "DMT-DD"

GUR-xx

RGB cable

Screen transfer cable "V-CP"

Windows 10

---

6 Trend Graph (historical display) function expanded

Model: V9/X1

[Outline]
- You can specify the color and line type of the cursor as you like.
- The display order of back up files can be set.

[Setting]
Settings for the color and line type of the cursor and the display order of backup files are available on the trend item dialog.

- The color and line type of the cursor:
  Check [Contents] > [Cursor]
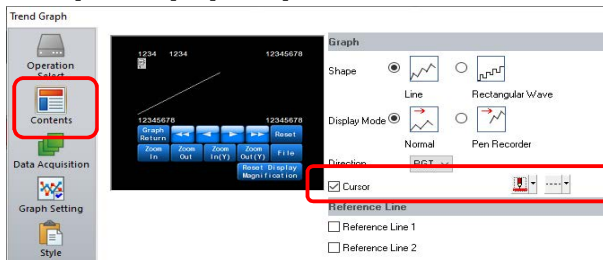
- Display order:
  [Detail] > [File Display Order]

Ascending order: display from oldest date (default)

File Display Order ○ Ascending Order ◉ Descending Order
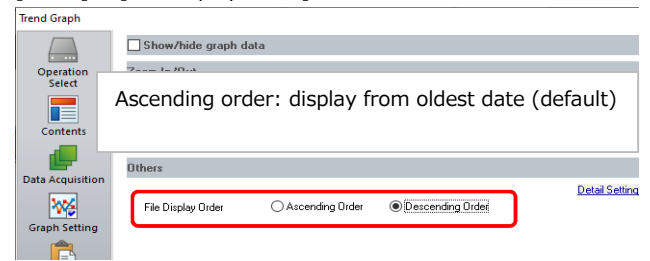
E.g. Descending order

Select date and time.

2021/03/11	23:42:14
2021/03/10	23:41:05
2021/03/09	15:39:17
	15:38:11

---

7 Multi-language: 32 languages supported

Model: V9/X1

[Outline]
The number of languages, specified in [System Setting] > [Font Setting] > [Interface Language],
has been extended from 16 to 32. It can be set up to 32 languages
also for V-SFT menu, Language changeover switch or SYS(CHG_LANG) macro command.

SYS (CHG_LANG) macro command

	Value
F0	CHG_LANG
F1	0: Language 1
	1: Language 2
	:
	31: Language 32

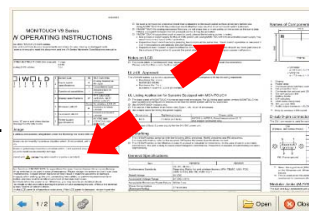
8 PDF Viewer: Zoom in/zoom out

Model: V9 Advanced (Capacitance model)
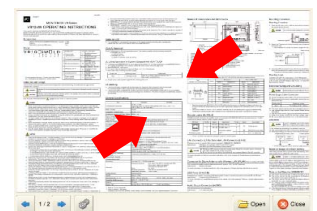
[Outline]
In addition to the zoom in/out on the viewer
by switch function, it is now possible by pinch-in and pinch-out.

Available magnification: 50 to 200%

Pinch-out

Pinch-in

Function

9   AXIS network camera: Free size specification of display area supported
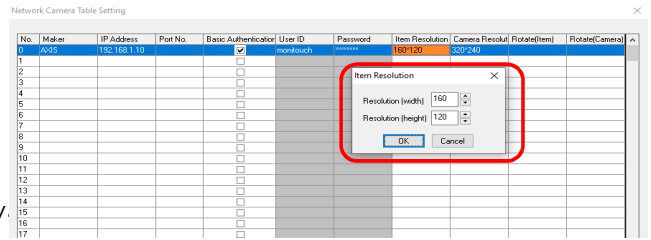
        Model: V9
Camera Model: AXIS network camera

[Outline]
  The display area on V9 can be set to any size.

[Notes]
  Set the resolution to the one supported by the network camera.
  If the resolution is not supported, the image will not be displayed properly.

---

10   Table Data Display: Background color transparent
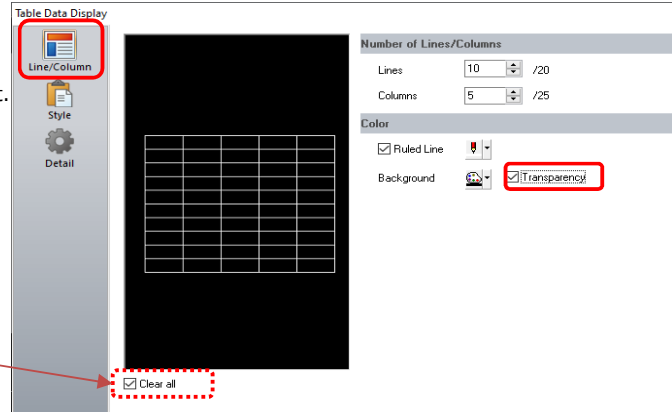
        Model: V9/X1

[Outline]
  The background color of table data display can be transparent.

[Setting]
  Table Data Display setting dialog
  Check [Line/Column] > [Transparency]

        If checked, all cells will be empty (text)
        and they can be used as ruled lines.

---

11   Memo pad function expanded

        Model: V9/X1

[Outline]
  By using $s, you can specify the display page number of memo pad and pen color.
  You can also erase the data of the specified page No. and display it.

[Specifications]
  $s106

15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
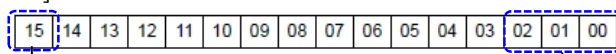
Delete the page   Not used   Memo pad No.0-7
when switching screens   Store the currently displayed page No. (->V9/ X1)
  1: Delete the specified page No.   Specify the display page No. (<-V9/ X1)
   * 1->0 after the deletion

  $s719   - Specify the pen color (<-V9/X1) * Effective only when switching screens.
                  - Store the pen color specified by the switch function (->V9/X1)

[Usage Example]
  1. Specify $s106=8001HEX by a macro
  2. Switch to the screen where memo pad is placed
  3. Delete the current data of page No.1 and display page No.1
     ($s106 becomes 0001HEX)

> Pen color 0: Black
>   1: Blue
>   2: Red
>   3: Purple
>   4: Green
>   5: Light blue
>   6: Yellow
>   7: White (Default)
> Others can be specified with 128 palette colors.
> Refer to "V9 Reference Manual 1" for details.

---

12   Extended Data Sheet: Additional items

        Model: V9/X1

[Outline]
  Additional items can be placed in the extended data sheet [Registration Item] > [Data Sheet].

[Supported items]
  - Trend graph
  - Memo pad (output the page No. specified in $s106)

Function

13 Entry mode specification improved
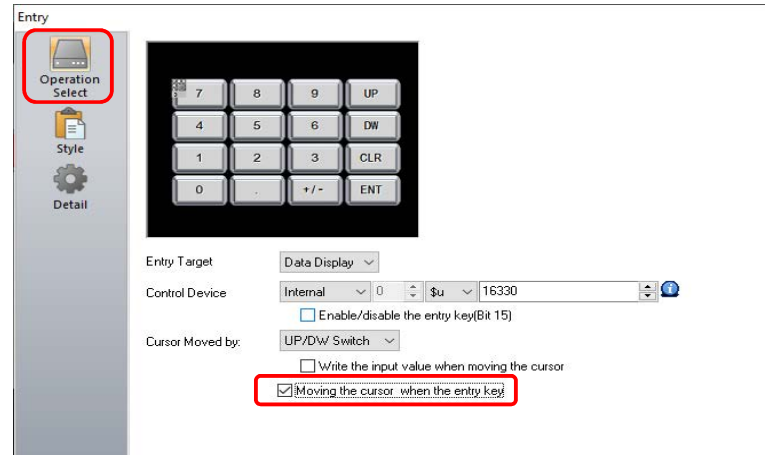
Model: V9/X1

Setting the cursor movement with the ENT key

[Outline]
You can move the cursor to the next entry target
with the ENT key without using Bit 14 of the control device
(automatic cursor movement).
It is the same for an entry target on the overlap.

[Setting]
Entry setting dialog > [Operation Select] >
[Moving the cursor when the entry key]

Copy and paste function

[Outline]
You can copy the currently selected text, save it to the clipboard, and paste it into another entry target.
This reduces the need for typing when entering the same characters.
Also, since the last copied character is retained during RUN mode, it can also be pasted to a char. display placed on another screen.

[Item]
Character display (Function: Entry target)

[Setting]
- Switch function: [Copy] and [Paste] of [Entry]
- Switch ID No.: Match with the ID No. of the entry mode

[Operating procedure]
1. Select the char. display of the copy source
2. Press the copy switch (switch function: Copy)
3. Select the char. display (entry target) to be copied,
   and press the paste switch (switch function: Paste)
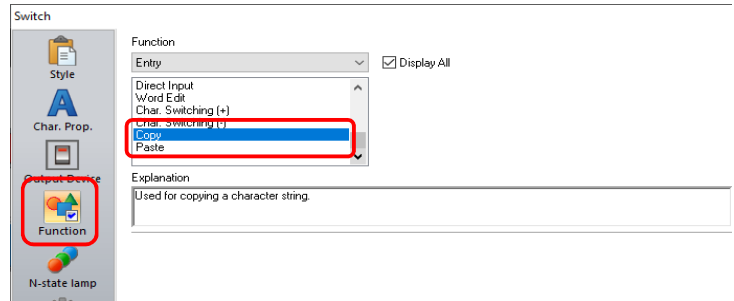
[Note]
Paste is not allowed during Japanese conversion.

"MONITOUCH" is copied
to the clipboard.

Move the cursor to another entry target
then it is pasted from where the cursor is.
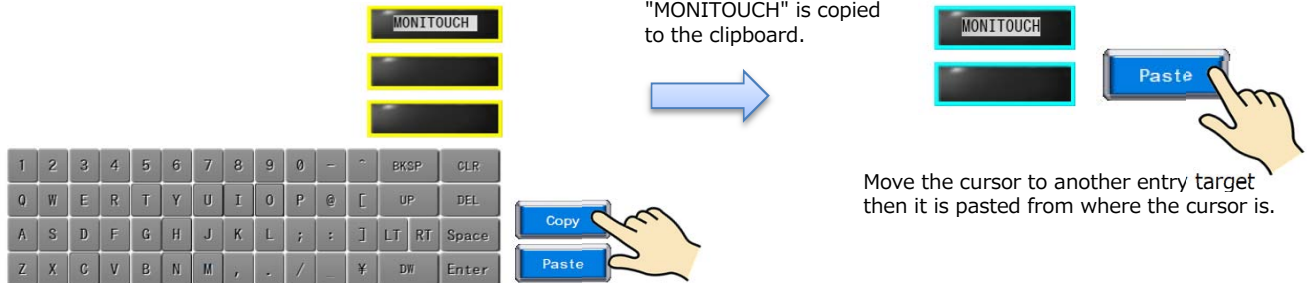
14 Display type "HEX" supported
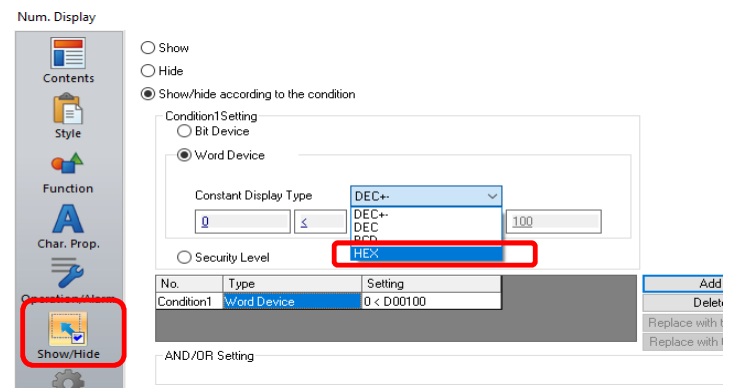
Model: V9/TS/V8(N)/X1

[Outline]
The display type "HEX" is now supported
in the show/hide setting and the interlock condition setting.

[Item]
- Show/Hide setting of each item
- Interlock of switch

E.g. Show/Hide setting of Num. display

15 Alarm / Operation / Scaling supported
Model: V9/X1

Tag Database

[Outline]
 The alarm, operation, and scaling functions can be applied to the devices set as tags.
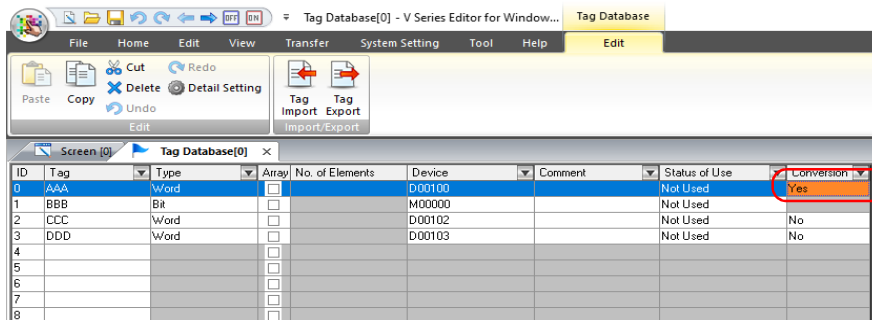 This allows for a reduction in man-hours, as data requiring arithmetic operations no longer need to be processed on the PLC or by macros, and only changes on the tag database are required even when used in multiple locations.
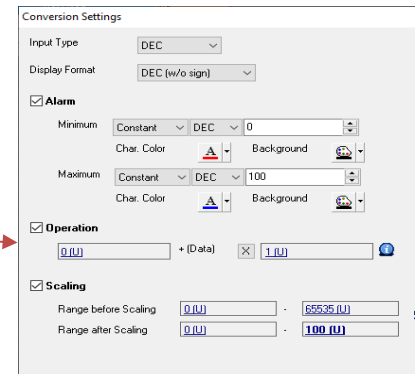
[Item]
 - Numerical data display
 - Logging server

[Setting]
 - Tag Database: [Home] > [Registration Item] > [Tag Database] > [Conversion]

* Alarm is only for num. display

 - Each item setting   E.g. Tag AAA
  - Num. display: [Contents] > [Device to Display] > check [Use tag operation/scaling/alarm]

* When checked, [Operation/Alarm] of num. display cannot be specified.

 - Logging Server: [System Setting] > [Logging Server] > [Logging Data] > [Conversion] > check [Use tag operation/scaling]
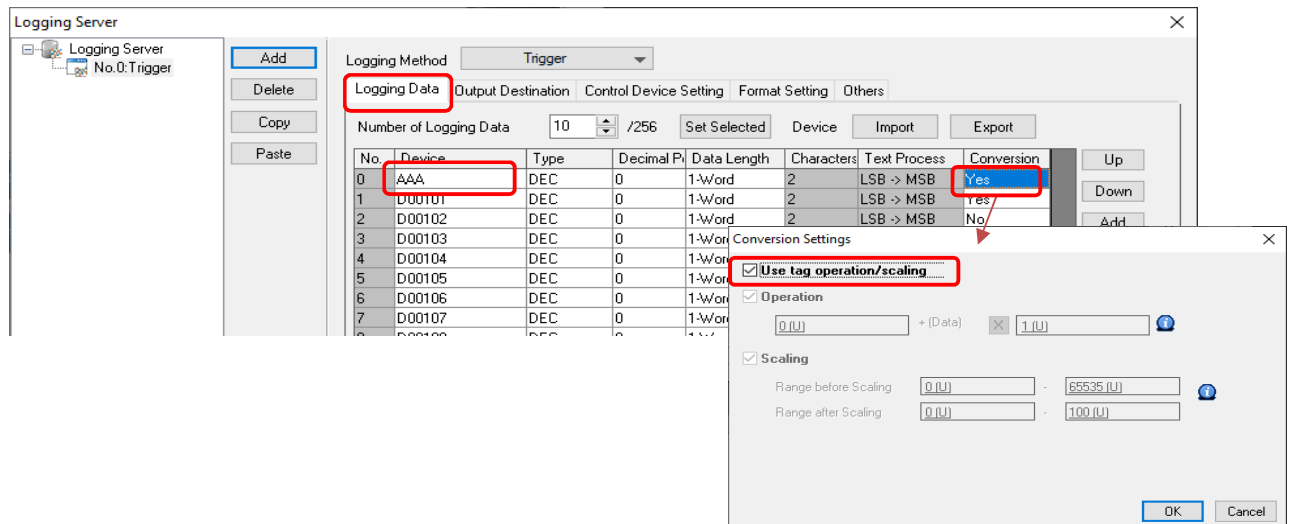
Operation/scaling for Logging server (PLC, internal devices)

[Outline]
 When the logging server is set to a PLC or internal device, you can set operation/scaling.
 All including graph display, CSV output, etc. can be handled with the converted data.

[Setting]
 [System Setting] > [Logging Server] > [Logging Data] > [Conversion]

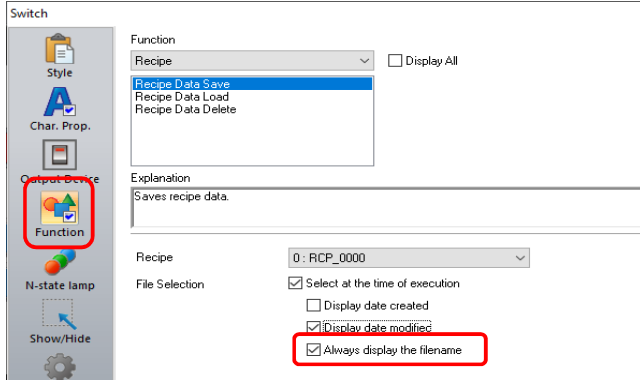## 16 Recipe: Display of list dialog improvement

Model: V9/X1

[Outline]
 Long file names can be fully displayed.
 This makes it easier to find recipe file names that differ
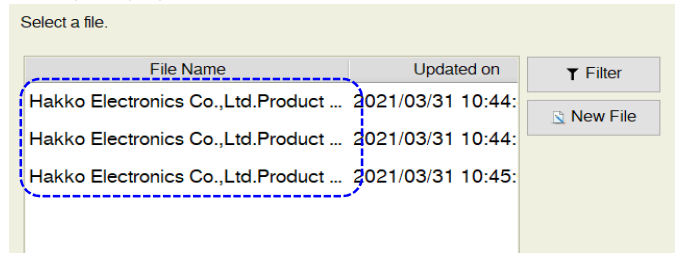 only in the end of the file name.

[Setting]
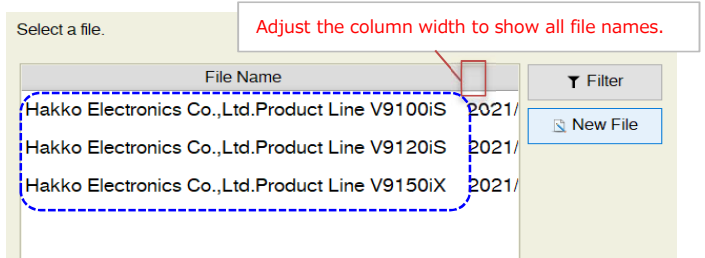 Check [Always display the filename] option of the switch dialog

E.g. When displaying the update date and time
 - [Always display the filename] : Unchecked

 - [Always display the filename] : Checked

Adjust the column width to show all file names.

---

17 Backup folder deletion function

Model: V9/X1

[Outline]
 This function automatically deletes backup folders for logging, alarm, and datasheet, leaving the folders of the last specified number of days.
 This saves you from having to manually delete backup folders that are no longer needed, and prevents write errors due to full folders.
 It counting from the current day of the V9 calendar.

[Functions]
 Backup folders created by the following functions:
  - Logging server "LOGGING" folder
  - Alarm server "ALARM" folder
  - PDF output of datasheet "LIST" folder

[Setting]
 Specify the number of days in
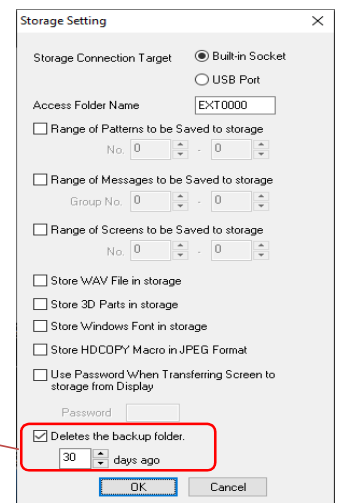 [System Setting] > [Other] > [Storage Setting] > [Delete the backup folder]

[Example] Setting as 30 days and transfer the data to the V9

V9 calendar: March 30th, 2021
      ∨
Backup folders before February 2021 will be automatically deleted
       (folders of March 1st to 30th, 2021 will remain)

Range: 30 to 2000 days

[Note]
 Auto deletion is also possible with the options of [System Setting] > [Unit Setting] > [General Settings]
 - [Delete folders from the oldest if Storage is lacking in space for backup]
 - [Delete folders from the oldest when the remaining storage space is less than 100MByte]

18 Macro command for comparison: IF(MULTI), SELECT_CASE supported

Model: V9/X1

[Outline]
The macro commands for comparison, IF(MULTI) and SELECT_CASE, are supported. This is useful when there are multiple conditions

[Specifications]
- IF(MULTI)

IF(F0 (condition) F1) AND (F2 (condition) F3) THEN
    (1)
ELSE
    (2)
ENDIF

If the conditions of F0 and F1 are satisfied, and the conditions of F2 and F3 are satisfied, then execute (1). If not, execute (2).
* ELSE and (2) can be omitted.
* F0 to F3 can be specified with PLC devices.

IF(F0 (condition) F1) OR (F2 (condition) F3) THEN
    (1)
ELSE
    (2)
ENDIF

If the conditions of F0 and F1 are satisfied, or the conditions of F2 and F3 are satisfied, then execute (1). If not, execute (2).
* ELSE and (2) can be omitted.
* F0 to F3 can be specified with PLC devices.

- SELECT_CASE

SELECT_CASE F0
  CASE (condition) F0
    (1)
  CASE (condition) F0
    (1)
  CASE_ELSE
    (2)
ENDSELECT

Compare the conditions of F0 and the CASE macro, and execute CASE (1) that satisfies the conditions. If the condition is not satisfied, execute (2).
* CASE_ELSE and (2) can be omitted.
* The maximum number of CASEs is 10.
* SELECT_CASE and CASE are word comparisons.

- In case of "SELECT_CASE~CASE~ENDSELECT"

[Example]
- In case of "IF THEN AND~ELSE~ENDIF"

If $M0<$u10 and $M1<$u100 are both true, increment $M0 by 1.
If not, set M5 ON.

If $u100 is 5, transfer 1 to $u101.
If it is 10, transfer 2 to $u101.
If it is 15, transfer 3 to $u101.
If none of the above is true, increment D100 by 1.

19 E-mail function: Encryption "STARTTLS" supported

Model: V9/X1

[Outline]
The E-Mail function of the V9 series supports encryption "STARTTLS"
It is possible to receive e-mails from mail servers with security enhanced by STARTTLS encryption.

- In case of the editor

[Supported mail servers]
- smtp.outlook.com or smtp.office365.com of Microsoft365(previous office365)
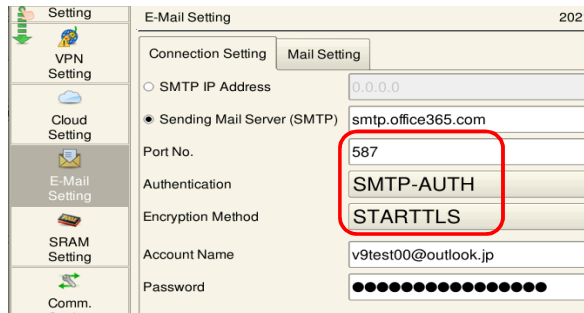- smtp.gmail.com (two-step app password) of Gmail

[Supported functions]
- Alarm History / Event History / Real Time
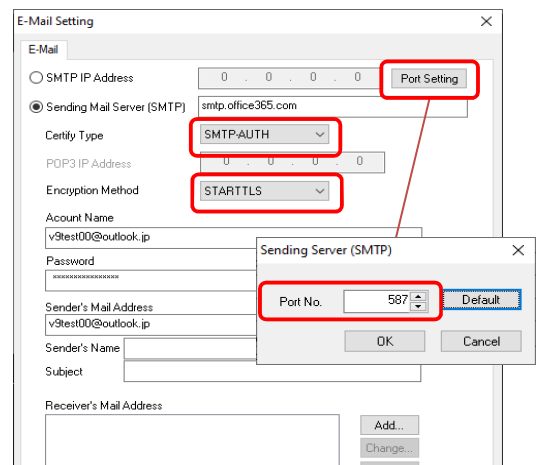- Data Transfer Service (upload)

[Setting]
E-Mail Setting
- "Certify Type: SMTP-AUTH"
- "Encryption Method: STARTTLS"
- Port No.: 587

- In case of the local menu

[Note]
For Gmail, you need to set up a two-step password in Google's security settings.

## 20 MES Standalone supported

Model: V9/X1

[Outline]
The MES function can be used for database files in the storage.
Since there is no need to prepare a V-Server or Ethernet environment, it can be easily realized with just MONITOUCH.
In addition, the database file can be newly created by MES_WRITE macro command, so there is no need to build a database.

Execute MES_WRITE macro command
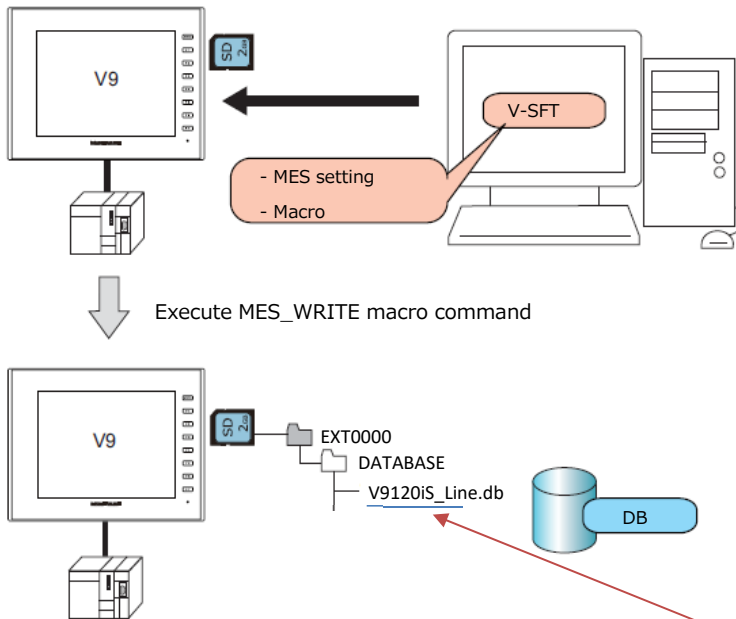
[Setting]
[System Setting] > [Other] > [MES Setting] > check [Use as stand-alone]
* Other settings are the same as the existing MES settings. See "V9 Reference Manual 2" for details.

The database name becomes the file name.
E.g. V9120iS_Line.db

[Storage location of database files]
(Access folder name)/DATABASE

[How to create a database file]
Execute the MES_WRITE macro command.
The DATABASE folder and (database name).db will be created in the storage.

21 Web Machine Interface specification improvement

Model: V9

Domain connection with DNS

[Outline]
Currently, Web Machine Interface function of the V9 series uses the global IP address of the authentication server
for authentication and connection. When the contracted cloud server is stopped or discontinued, it is necessary to reconfigure
the connection to a new server. For future maintenance and convenience, we have supported for connecting domain names with DNS.
By setting up DNS in the V9, even if a server is changed in the future, the connection will be automatically switched.
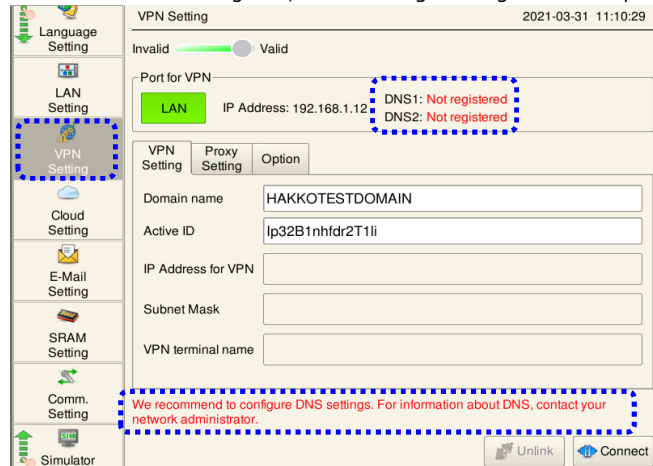
[Setting]
V9: [LAN/LAN2/WLAN Setting] used for VPN or cloud connection > [Option] >[DNS Setting]
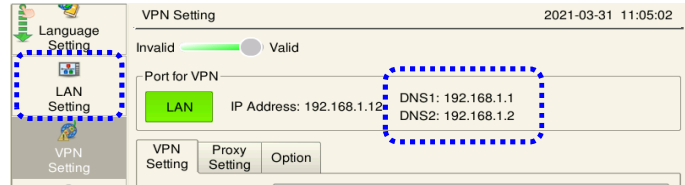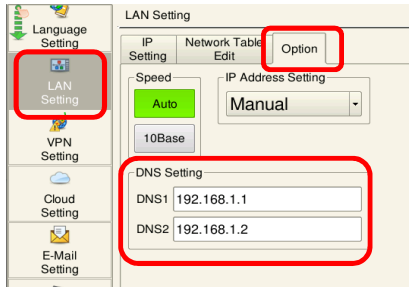
Check with your network administrator for the IP address to set for DNS.

*When DNS is not configured, the following message will be displayed.

We recommend to configure DNS settings. For information about DNS, contact your network administrator.
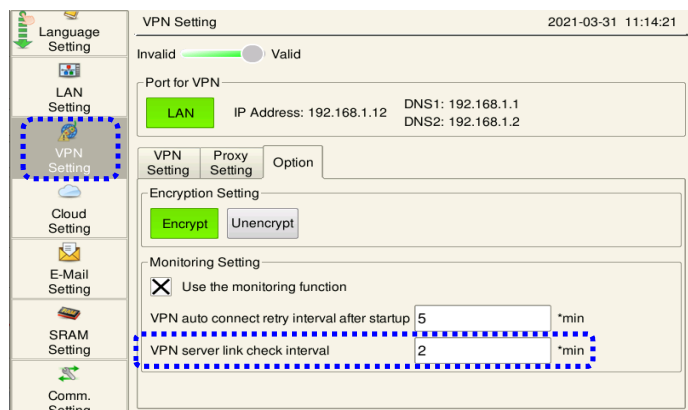
Monitoring setting expanded

[Outline]
When the VPN connection is disconnected,
the authentication server now automatically authenticates
the VPN server and reconnects.
Also, $s1679, which stores the link status
with the VPN server, is always updated.

[Reconnect timing]
[VPN Setting] > [Option] >
[VPN server link check interval]

Function

22 MITSUBISHI ELECTRIC Q170 ladder monitor upload function supported

Model: V9/X1
PLC Model: - Q170MCPU (Multi CPU)
          - Q170 series (Multi CPU)(Ethernet)

---

23 YOKOGAWA PLC (Ethernet connection) ladder monitor supported

Model: V9/X1
PLC Model: - FA-M3/FA-M3R(Ethernet UDP/IP)   Note: Uploading comments is not supported.
          - FA-M3/FA-M3R(Ethernet UDP/IP ASCII)
          - FA-M3/FA-M3R(Ethernet TCP/IP)
          - FA-M3/FA-M3R(Ethernet TCP/IP ASCII)
          - FA-M3V(Ethernet)
          - FA-M3V(Ethernet ASCII)

---

24 Siemens S7-1200/1500 (Ethernet ISOTCP) STRING type supported

Model: V9/TSi/V8i(N)/X1
PLC Model: Siemens S7-1200/1500 (Ethernet ISOTCP)

[Outline]
 Reading and writing of DB devices with STRING data type at the PLC side.
 Each corresponding item must be set to "STRING type".

[Item]
 - Character display
 - Char.display of table data display
 - Data display of data sampling (display area)
 - Alarm server: parameter table (V9/X1 only)
 - Logging server (V9/X1 only)
 - Recipe (V9/X1 only)
 - Buffering area: parameter table of alarm (TSi/V8i(N) only)
 - Buffering area: trend (TSi/V8i(N) only)

E.g. Char. Display setting > [Detail]

---
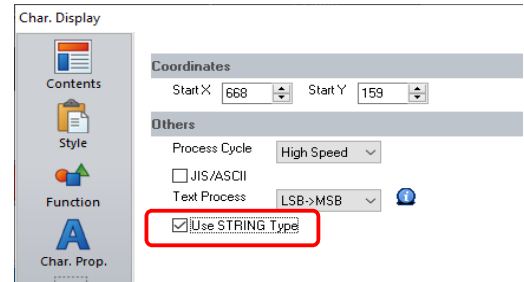
25 Processing Cycle: Constant cycle function

Model: V9/X1

[Outline]
 The processing cycle set for each item can be changed to a fixed cycle.
 A maximum of 3 (constant cycle 1, 2, and 3) can be set for each screen.

[Setting]
 [Screen Setting] > [Screen Setting] > [PLC Device Transfer] >
 [Processing Cycle setting]

  - Unchecked
    Constant Cycle 1: 100msec (fixed)
    Constant Cycle 2: 200msec (fixed)
    Constant Cycle 3: 1000msec (fixed)

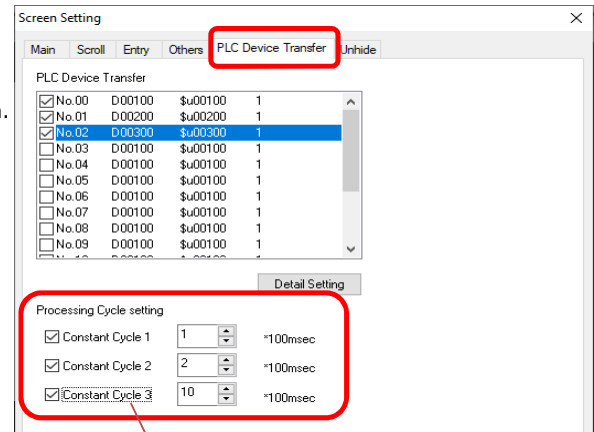 - Checked
    Setting range: 1 to 3600 (unit: *100mSec)

[Setting]
 [Detail] > [Process Cycle] of each item
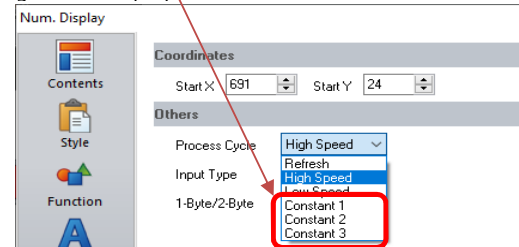
[Note]
 Each constant cycle time of the currently displayed screen
 is stored in the following $s.

 $s1647: Constant Cycle 1   (unit: *100mSec)
 $s1648: Constant Cycle 2
 $s1649: Constant Cycle 3

E.g. Num. Display

---

26 Initial screen number designation by "Read/Write area" (V8 compatible)
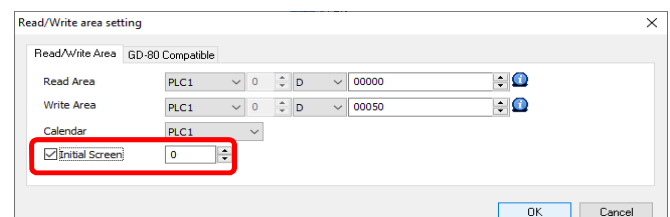
Model: V9/X1

[Outline]
 When converting a V8 or previous model (with PLC connection) to
 a V9 or X1, the "Initial Screen" No. can be specified
 in the same way as when creating a new V9/X1 data.

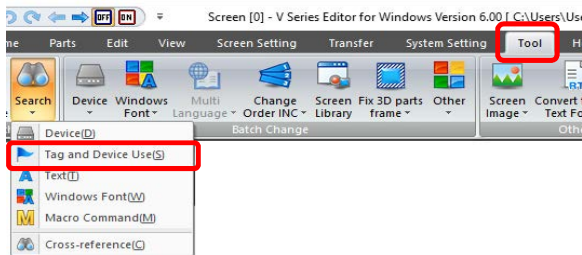[Note]
 It has priority over the initial macro.

1 List of memory use: Table format supported

[Outline]
You can display device usage in a table format.
The selected cell will turn blue and its usage will be shown at the bottom.
You can also double-click to jump to the usage area.
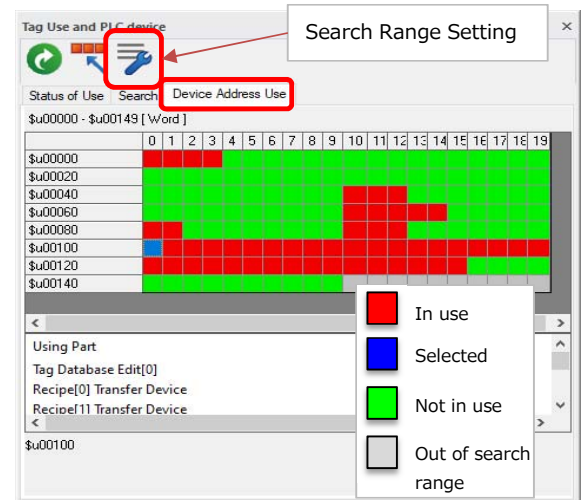
Search results are displayed in a table format.

[Operation]
1. [Tool] > [Search] > click [Tag and Device Use]

2. [Tag Use and PLC device] is displayed
   Select [Device Address Use]

3. Set the search range and click [OK]

Search Range Setting

In use
Selected
Not in use
Out of search range

---

2 Unicode supported for image file names

[Outline]
User-defined image files can be used for parts such as switches and lamps. These file names can be handled in Unicode.
Even if OS-dependent characters are used, they can be used without being garbled in other language OS.
In addition, error checks can be used to identify file names that use OS-dependent characters, so it can prevent their use itself.

E.g. PC with Japanese OS: when using a file named "発紋電機V9一覧.PNG" for a switch
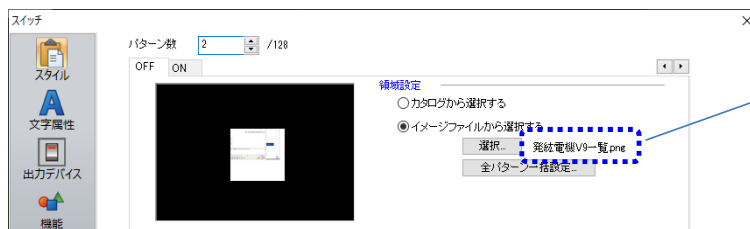
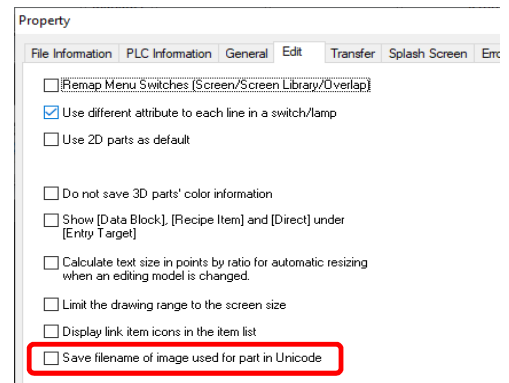These are Japanese OS dependent characters

[Item]
Parts ([Select from image files] is selected)

[Setting]
[File] > [Property] > [Edit] >
Check [Save filename of image used for part in Unicode]

*If you already have image file names with OS-dependent characters
   in multiple places on the screen data, it is recommended to check this option.
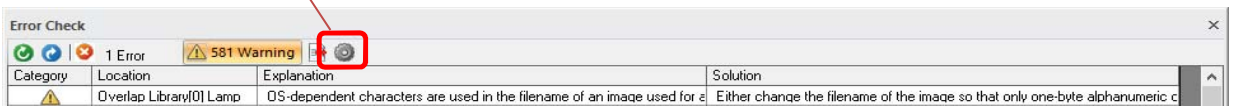

To search for OS dependent characters in image file names:
[Tool] > [Error Check]
   * [Property] > [Error Check] > [Detect OS-dependent characters in filename of image used for part] is required.
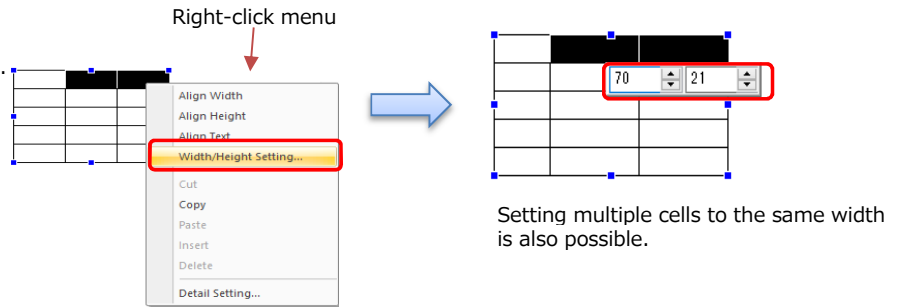   (Default: checked)

Warning

3   Table Data Display: Direct modification of cell width and height

[Outline]
The width and height of cells can now be
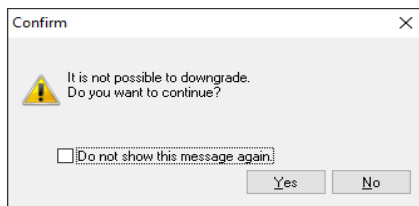changed directly from the right-click menu.

Right-click menu

Align Width
Align Height
Align Text
Width/Height Setting...
Cut
Copy
Paste
Insert
Delete
Detail Setting...

70   21

Setting multiple cells to the same width
is also possible.

---

4   Warning message when opening an existing screen data of X1 and V9
Model: V9/X1

[Outline]
The warning message that appears when creating a new V9 or X1 screen data also appears when opening an existing V9 or X1 data.

Confirm   ✕

It is not possible to downgrade.
Do you want to continue?

☐ Do not show this message again.

Yes   No

If "Do not show this message again." is checked,
this dialog will not be displayed on that PC from the next startup.

Fe Fuji Electric
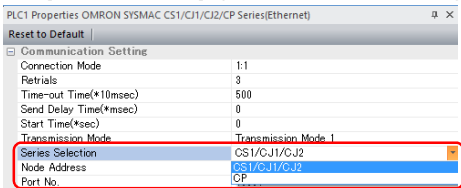
MONITOUCH

V-SFT-6 Update information

V-SFT version	6.0.39.0
System program version	V9 : 2.200　TS : 2.340　V8 (N) : 2.340
OS version	V9 : 4.00

Description of Updates

Connection

1. Additional connectable device: OMRON CP Series

    Model: V9/TSi/V8i (N)
PLC Model: OMRON   SYSMAC CS1/CJ1/CJ2/CP Series (Ethernet)
                  SYSMAC CS1/CJ1/CJ2/CP Series (Ethernet Auto)
                  SYSMAC CS1/CJ1/CJ2/CP Series DNA (Ethernet)

    Changes: The [Series Selection] option is added to the PLC property window.

2. Additional connectable device: Siemens　S7-1200/1500 Tag (Ethernet ISOTCP)

    Model: V9/TSi/V8i (N)
PLC Model:　Siemens　S7-1200/1500 Tag (Ethernet ISOTCP)

3. Additional connectable device: Siemens　LOGO! (Ethernet ISOTCP)

    Model: V9/TSi/V8i (N)
PLC Model:　Siemens　LOGO! (Ethernet ISOTCP)

4. Additional connectable device: FATEK AUTOMATION　FACON FBs series (Ethernet)

    Model: V9/TSi/V8i (N)
PLC Model:　FATEK AUTOMATION　FACON FBs series (Ethernet)

5. Additional connectable device: Panasonic　LP-RF series

    Model: V9/TS
PLC Model:　Panasonic　LP-RF series

6. Additional connectable device: Panasonic　LP-RF series (Ethernet)

    Model: V9/TSi
PLC Model:　Panasonic　LP-RF series (Ethernet)

7. Additional connectable device: Hitachi Industrial Equipment Systems　SJ Series P1(MODBUS RTU)

    Model: V9/TS/V8 (N)
PLC Model:　Hitachi Industrial Equipment Systems　SJ Series P1(MODBUS RTU)

8. Additional connectable device: CIMON　CP3E

    Model: V9/TS/V8 (N)
PLC Model:　CIMON　CP3E

9. Additional connectable device: Others　General AE-LINK

    Model: V9/TS/V8 (N)
PLC Model:　Others　General AE-LINK

10. Additional connectable printers

    Model: V9 series　*OS upgrade is required.
PLC Model:　HP printers supporting　HPLIP version up to 3.18.6. *Supported by V9 hardware ver. f or later.
             EPSON　EP-712A

Editor

11. BECKHOFF Tag ADS Protocol (Ethernet TCP/IP)　Extended function

    Model: V9/TSi/V8i (N)
PLC Model:　BECKHOFF　Tag ADS Protocol (Ethernet TCP/IP)

    <u>Outline</u>
    - Selected tags can be imported.
    - Batch changing of the station numbers/ADS port numbers is supported.

12. Local screen: Changes in local screen specifications
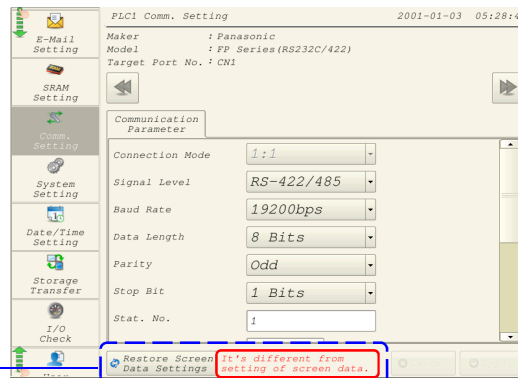
Model: V9 series

Outline
The supplementary message "It's different from settings of screen data." appears next to the [Restore Screen Data Settings] button on the local screen.

Scope of changes
- LAN/LAN2/LAN Unit Settings
- E-Mail Setting
- Comm. Setting
- System Setting (buzzer/backlight)

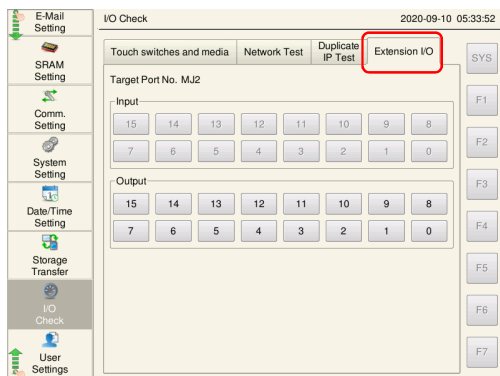It appears after changing the settings on the local screen.

13. Local screen: Expansion I/O test screen

Model: V9 series

Outline
When connecting the serial expansion I/O unit "V-I/O", the connection test is possible by clicking [I/O Check] -> [Extension I/O] on the local screen.

14. Main menu screen: Improved signal level display for communication parameters

Model: TS series

Outline
The signal level notation has been improved from "RS-422" to "RS-422/485".

<Before the change (PROG Ver. 2.320 or earlier)>
"RS-422" was displayed in the communication parameters on the main menu screen of the TS even though the signal level "RS-485" was selected in the editor.

<After the change (PROG Ver. 2.340 and later)>
When the signal level "RS-485" is selected in the editor, " RS-422/485" is displayed in the communication parameters of the main menu screen of the main unit.
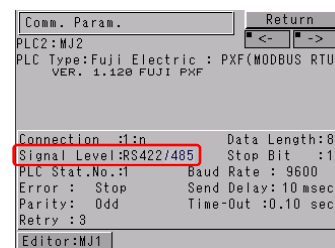
15. USB camera: Extended information output device feature
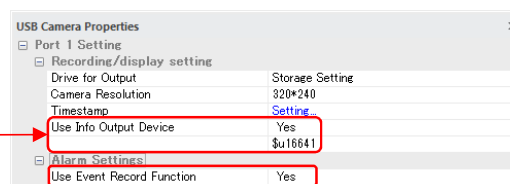
Model: V9 series

Outline
It outputs whether or not the event recording function is configured and the recording status (stop/start) to the information output device.

Configuration of settings
[System Setting] -> [Hardware Setting]
 -> [USB Camera Properties] ->[Recording/display setting]

Set [Use Info Output Device] to "Yes".

Description of Information output device
Bit 4 (only for the event record function)   Bit 5
  0: Start the event record function   0: Event record function is not configured.
  1: Stop the event record function   1: Event record function is set to use.

16. Screen program transfer: Extended function (1)

Model: V9/TS
Transfer modes: USB/Ethernet/serial

Outline
Screen program transfer (write) is allowed only to the V9/TS with a specific MAC address.
This feature prevents incorrect transmission of screen program.

Configuration of settings
1. Go to [File] -> [Property] and click the [Transfer] tab. Check [Transfer to specific unit only].
2. Click [Detail Setting] -> [Add] to enter the MAC address of the HMI you want to download the screen program to.
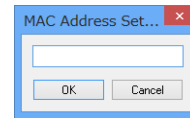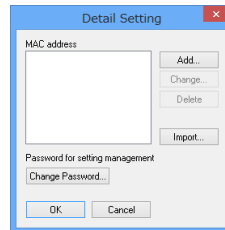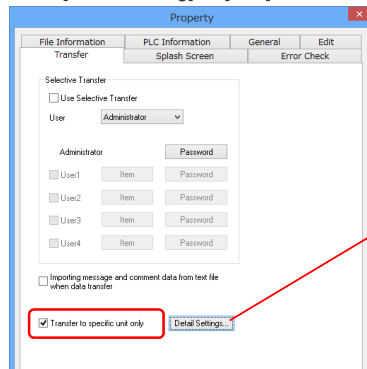
Enter 12 characters without a : (colon).
Importing using a CSV file is also possible.

* [Password for setting management]
  This allows you to lock the Detail
  Setting window.
  (Up to 16 alphanumeric letters.)

17. Screen program transfer: Extended function (2)

Transfer modes: USB/Ethernet/serial

Outline
You can control the execution of screen program transfer (read/write) with a password.
The password entry screen appears before you start writing screen program or upload screen program from the unit and display it in the V-SFT.

Configuration of settings
1. Go to [File] -> [Property] and click the [File Information] tab.
   Check [For sending/receiving screen data].
2. Click [Change Password] and enter a password.
   (Up to 16 alphanumeric letters.)

<Example>
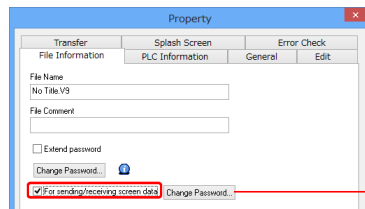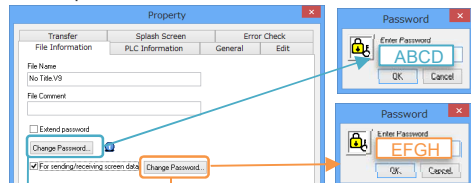
PW for screen program transfer: EFGH
PW for opening the program on the V-SFT: ABCD

<To download the screen program>
  Password: EFGH

<To upload the screen program>
  Password: EFGH * The password is "ABCD" unless a password
                     for sending/receiving screen program has been set.

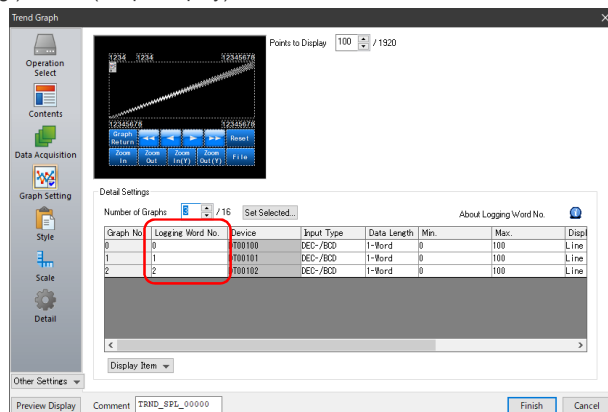<To open the screen program on V-SFT>
  Password: ABCD

18. Trend: Extended logging word count

Model: V9 series

Outline
The number of logging words for trending items has been expanded from "0 through 255" to "0 through 32767".
 (E.g.) Trend (Graph display)

19. Additional function: Password lock function when editing a screen program

Outline
A password lock function for editing screen program is now supported.
Three user levels can be set: Super user, Power user, and Standard user.
You can limit the editing of screen program to the user's level by registering a password based on the user level.

Items subject to user level settings

| Item	Settings	Item	Settings
Screen	・[Screen Setting] -> [Screen Setting] -> the [Main] tab (A)	Overlap Library	・Right-click on the Overlap Library (B)
	・Right-click on a screen (B)		・Right-click on the Screen List (B)
	・Right-click on the Screen List (B)		・Project View (C)
	・Project View (C)		・Right-click on the Project View (D)
	・Right-click on the Project View (D)	Overlap Library (Open/Close macro)	・Menu bar of each macro edit screen (E)
Screen (Open/Close/Cycle macro)	・Menu bar of each macro edit screen (E)	Macro mode (ON/OFF macro)	・Menu bar of each macro edit screen (E)
Switch (ON/OFF macro)	・Menu bar of each macro edit screen (E)	Group/Link	・Item select -> right-click (B)
Global function switch (ON/OFF macro)	・Menu bar of each macro edit screen (E)	Alarm Block (Operation Setting -> Macro) (Occurrence/cancellation)	・Menu bar of each macro edit screen (E)
Local function switch (ON/OFF macro)	・Menu bar of each macro edit screen (E)		
Macro block	・Menu bar of the macro block (F)	Scheduler (Action -> Macro)	・Menu bar of each macro edit screen (E)
	・Right-click on the Project View (D)		

(A) [Screen Setting] -> [Screen Setting]
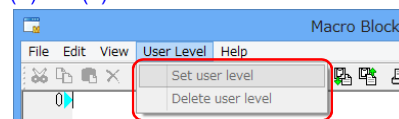   -> the [Main] tab
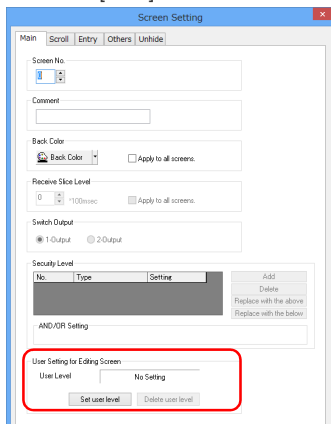
(B) Right-click menu
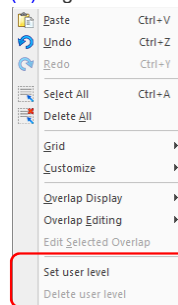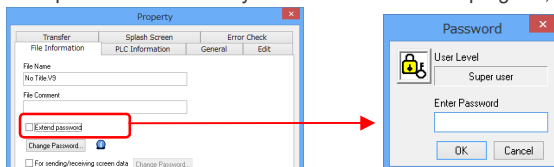
(C) and (D) Project View
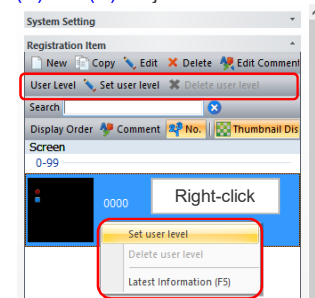
(E) and (F) Menu bar

Configuration of settings
1. Go to [File] -> [Property] -> [File Information]. Check [Extend password].
   Enter a password for the [Super user] (Up to 16 alphanumeric letters.)
   * If a password has already been set for the screen program, that password will become the password for Super user.

2. Set the passwords for Power User and Standard User. (Up to 16 alphanumeric letters.)
     * If a password has already been set for the screen program, that password is required to change each user's password.
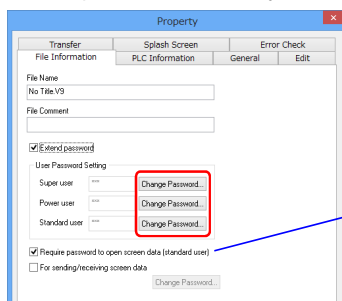
When checking "Require password to open screen data (standard user)",
you must enter the standard user's password to open the screen program.

   * If you have set a password before you checked the "Extend password" checkbox,
     the existing password will be invalidated.

3. Set the user level for each item.
   (E.g.) Macro block

Editor
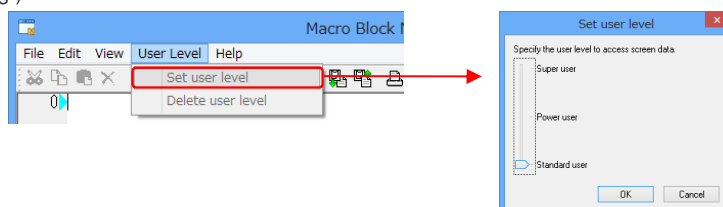
Continued ->

<Example>
1. Set the user level: standard user to the Macro block No. 0, and save the screen program.
2. Re-open the screen program. The following window appears when trying to edit the Macro block No. 0.
   If the password is correct, the Macro block No. 0 becomes editable. If the password does not match, the Macro block is uneditable.

Editor
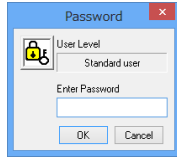
20. Multi Language Batch Copy: Extended feature
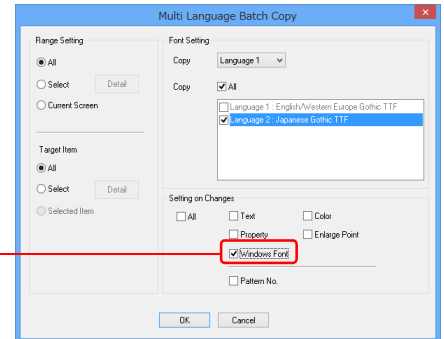
<u>Outline</u>
Multi Language Batch Copy now supports batch copying of Windows fonts
in numerical data display and character display.

<u>Configuration of settings</u>
Click [Tool] -> [Multi Language] -> [Multi Language Batch Copy].
Check [Windows Font].

<Applicable items>
・Numerical data display
・Character display
・Table data display (numerical/character)

Editor

21. Additional parts

   Model: V9 series

<u>Outline</u>
New panel meters with dials of 90 or 270 degrees are available.
They look clear even when enlarged.

[Panel meter]
   Plain   -> Illustration 1
   Real   -> Metal 1

Editor

22. Tag Database: Extended specifications

<u>Configuration of settings</u>
[Home] -> [Registration Item] -> [Tag Database]

1) [Status of Use] column

<u>Outline</u>   The [Status of Use] column is added to the Tag Database editing window.

2) Tooltip to view where the tag is used
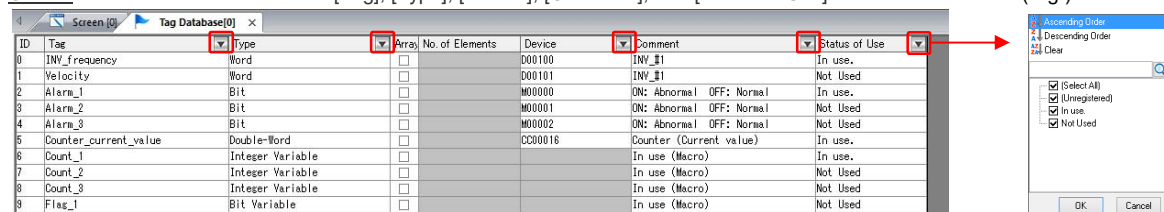
<u>Outline</u>   Click "In use" in "Status of Use" to show where it is used.
Double-click the text in the balloon to jump to the location where the tag is in use.

Double-click the text to jump
to where the tag is used.
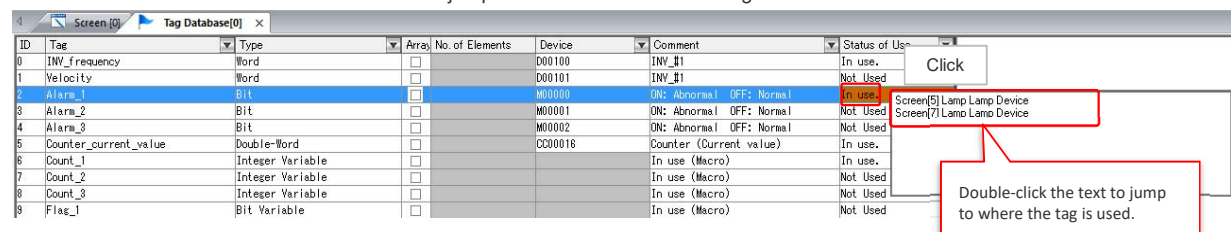
3) Filters

<u>Outline</u>   Filters are now added to [Tag], [Type], [Device], [Comment], and [Status of Use].

(E.g.)

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V-SFT-6 Update information

V-SFT version	6.0.38.0
System program version	V9: 2.150 TS: 2.320 V8(N): 2.320
OS version	V9: 3.90

Description of Updates

Connection

1.   Additional connectable device: KEYENCE KV-8000
        Model: V9/TSi/V8i(N)
    PLC Model: KEYENCE KV-7000/8000(Ethernet TCP/IP)

Connection

2.   Extended function: KEYENCE UG device memory (buffer memory of expansion unit) supported
        Model: V9/TS/V8(N)
    PLC Model: KEYENCE KV-3000/5000
                KV-3000/5000(Ethernet TCP/IP)
                KV-7000/8000(Ethernet TCP/IP)
                KV Nano
                KV Nano(Ethernet TCP/IP)

    Description: UG device memory was supported.

Editor

3.   KEYENCE: XYM display of PLC device memory
    PLC Model: KEYENCE KV-3000/5000
                KV-3000/5000(Ethernet TCP/IP)
                KV-7000/8000(Ethernet TCP/IP)
                KV Nano
                KV Nano(Ethernet TCP/IP)

    [Outline]
    PLC device display can be changed to XYM display.

    [Configuration of settings]
    [File] > [Property] > [PLC Information] > check [XYM display]

[Description]

Default display		XYM display	
Symbol	Range	Symbol	Range
R	00000～199915	X (Input)	0000～1999F
		Y (Output)	0000～1999F
		R	0000～199915
MR	000000～399915	M	00000～63999
LR	00000～99915	L	00000～15999
DM	00000～65534	D	00000～65534
EM	00000～65534	E	00000～65534
FM	00000～32767	F	00000～32767

Function

4.   Printing data sheets: Line-spacing setting
        Model: V9 series

    [Outline]
    Line-spacing setting was supported. $s1807 is used for changing the setting.
            $s1807 = 1   1/8 inch (minimum)
            $s1807 ≠ 1   1/6 inch (default)

MONITOUCH

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V-SFT-6 Update information

V-SFT version	6.0.36.0
System program version	V9 : 2.100　TS : 2.320　V8(N) : 2.320
OS version	V9 : 3.90

	Description of Updates
Connection	**1.** Additional connectable device: MITSUBISHI ELECTRIC QnU series (Multi CPU) (Built-in Ethernet) 　　Model: V9 　PLC Model: MITSUBISHI ELECTRIC QnU series (Multi CPU) (Built-in Ethernet)
Connection	**2.** Additional connectable device: OMRON EJ1 　　Model: V9/TS/V8(N) 　PLC Model: OMRON EJ1
Connection	**3.** Additional connectable device: KEYENCE KV Nano 　　Model: V9/TS/V8(N) 　PLC Model: KEYENCE KV Nano
Connection	**4.** Additional connectable device: KEYENCE KV Nano (Ethernet TCP/IP) 　　Model: V9/TSi/V8i(N) 　PLC Model: KEYENCE KV Nano (Ethernet TCP/IP)
Connection	**5.** Additional connectable device: KEYENCE DL-RS1A (SK-1000) 　　Model: V9/TS/V8(N) 　PLC Model: KEYENCE DL-RS1A (SK-1000)
Connection	**6.** Additional connectable device: BECKHOFF Tag ADS Protocol (Ethernet) 　　Model: V9/TSi/V8i(N) 　PLC Model: BECKHOFF TagADS Protocol (Ethernet)
Connection	**7.** Additional connectable device: CIMON XP Series 　　Model: V9/TS/V8(N) 　PLC Model: CIMON XP Series
Connection	**8.** Additional connectable device: 3S-Smart Software Solutions CODESYS V3 (Ethernet) 　　Model: V9　　*OS upgrade is required.* 　PLC Model: 3S-Smart Software Solutions CODESYS V3 (Ethernet)
Connection	**9.** Additional connectable device: Gammaflux G24 (Ethernet TCP/IP) 　　Model: V9/TSi/V8i(N) 　PLC Model: Gammaflux G24 (Ethernet TCP/IP)
Connection	**10.** Extended function: SAIA PCD 　　Model: V9/TS/V8(N) 　Description: The range of supported station number was extended to 0 through 255.
Connection	**11.** Extended function: Modbus slave (TCP/IP) 　　Model: V9/TSi/V8i(N) 　Description: Multiple settings allowed for PLC2 through PLC8 (connectable to the multiple Modbus master devices.)
Connection	**12.** Extended function: PLC ladder monitor 　　Model: V9 　PLC Model: OMRON C series (C200H/C200HX only)
Connection	**13.** Additional accessory supported: V-I/O (serial extension I/O) 　　Model: V9 　Description: V-I/O (serial extension I/O) supported.

14. VNC server: extended function

Model: V9 series   *OS upgrade is required.
Function: VNC server

Configuration of settings
Go to [System Setting] > [Ethernet Communication]
  >[VNC Server] >[VNC Server Setting]

<User registration>

Outline   VNC user registration is possible on a screen program.
VNC server function is enabled right after downloading
the program because you made all the necessary settings.
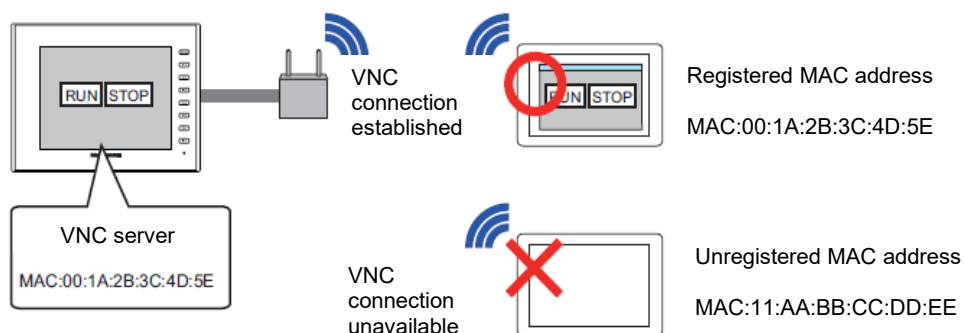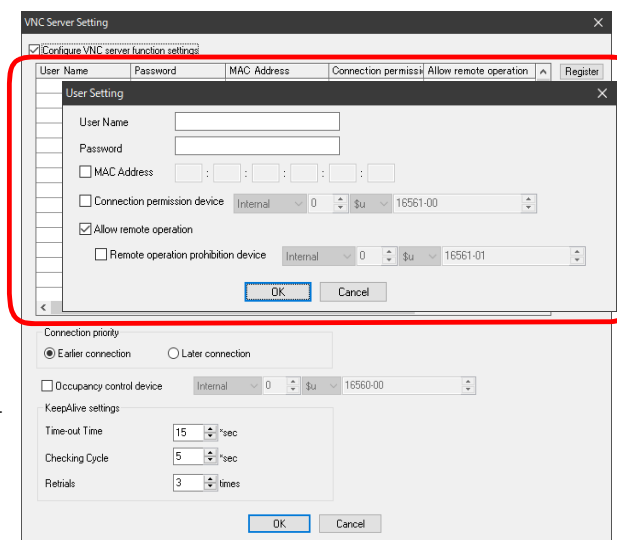
[Connection permission device]
  You can allow/prohibit VNC connection during RUN mode.

[Remote operation prohibition device]
  You can allow/prohibit remote operation during RUN mode.

[MAC address]
 Static MAC address of the target device can be registered.

VNC connection established — Registered MAC address
MAC:00:1A:2B:3C:4D:5E

VNC server
MAC:00:1A:2B:3C:4D:5E

VNC connection unavailable — Unregistered MAC address
MAC:11:AA:BB:CC:DD:EE

<Connection priority>

Outline   VNC connection is a 1：1 connection. You can determine the connection priority when the V9 receives
connection requests from multiple VNC clients.

<Occupancy control device>

Outline   The VNC side occupies the remote operation, and the operation of the V9 (including SYSTEM/Function switch) connection
can be prohibited while VNC connection is active.

V9 operation prohibited — VNC connected

V9 operation allowed — VNC not connected

<Hide the authentication screen>
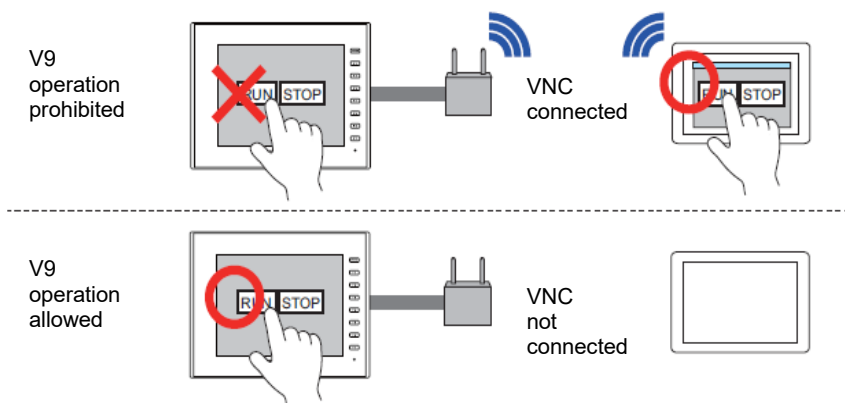
Outline   You can hide the authentication screen when connecting to VNC.

Configuration of settings
    Go to [System Setting] > [Unit Setting] > [General Setting] and check [Use the VNC server function without user authentication].
    If you also check [Prohibit remote operation], the connection is available only for remote monitor mode.

Function

15. Operation log: extended function

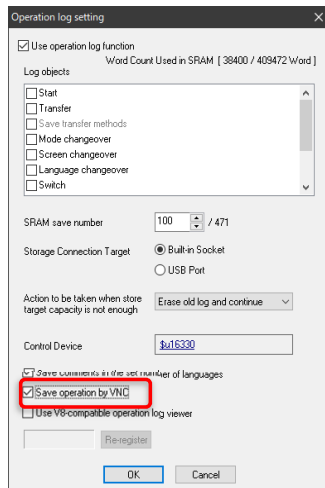Model: V9 series   *OS upgrade is required.
Function: Operation log

Outline
You can distinguish between the operation log of the V9 and the log of remote operations by the VNC server function.
The log includes the MAC address of the target device for the remote operation.

Configuration of settings
Go to [System Setting] > [Other] > [Operation log Setting] and check the [Save operation by VNC] option.

Operation log setting

☑ Use operation log function
Word Count Used in SRAM [38400 / 409472 Word]

Log objects
☐ Start
☐ Transfer
☐ Save transfer methods
☐ Mode changeover
☐ Screen changeover
☐ Language changeover
☐ Switch

SRAM save number   100   / 471

Storage Connection Target   ● Built-in Socket
                             ○ USB Port

Action to be taken when store   Erase old log and continue
target capacity is not enough

Control Device $u16330

☑ Save comments in the set number of languages
☑ Save operation by VNC
☐ Use V8-compatible operation log viewer

Re-register

OK   Cancel

	Date / Time	Jser IC	curity Lev	VNC User	MAC Address	
53	2020/03/30 10:48:36		0			ScrnChg
54	2020/03/30 10:48:40			vnc	48:4D:7E:F9:02:B4	DataChg
55	2020/03/30 10:48:41			vnc	48:4D:7E:F9:02:B4	Switch Actio
56	2020/03/30 10:48:41			vnc	48:4D:7E:F9:02:B4	ScrnChg
57	2020/03/30 10:48:41			vnc	48:4D:7E:F9:02:B4	Switch Actio
58	2020/03/30 10:48:42			vnc	48:4D:7E:F9:02:B4	ScrnChg
59	2020/03/30 10:48:43					Switch Actio
60	2020/03/30 10:48:43		0			ScrnChg
61	2020/03/30 10:48:44		0			Switch Actio
62	2020/03/30 10:48:44		0			ScrnChg
63	2020/03/30 10:48:44		0			Switch Actio
64	2020/03/30 10:48:44		0			ScrnChg
65	2020/03/30 10:48:44		0			Switch Actio
66	2020/03/30 10:48:45		0			ScrnChg
67	2020/03/30 10:48:46		0	vnc	48:4D:7E:F9:02:B4	Switch Actio
68	2020/03/30 10:48:46		0	vnc	48:4D:7E:F9:02:B4	ScrnChg

1 / 1   Default   Set   Close

16. Data sheet printing - PDF output: extended function

Model: V9 series   *OS upgrade is required.
Function: Data sheet printing

Outline   [Add]
This checkbox is to append (add) a page to an existing PDF file.
File size: up to 50MB.

[Append timestamp to filename]
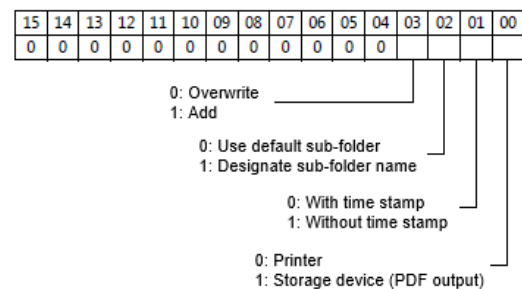You can choose whether to add a timestamp to the file name.

[Designate the sub-folder name]
It is possible to specify a name of folder to save the PDF file.

[Command device]
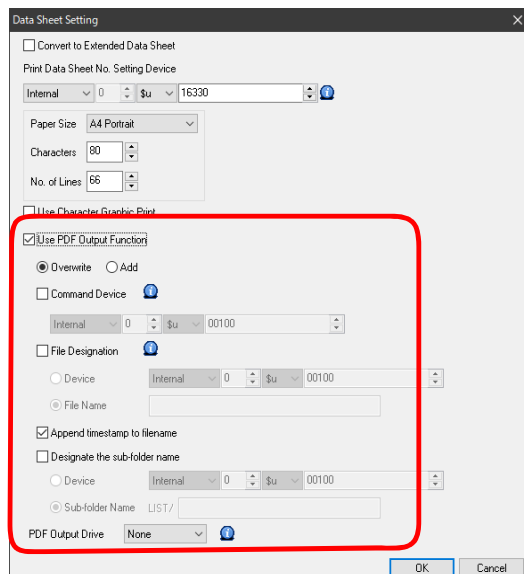The following items can be changed during RUN mode.
 - Printer output/PDF output
 - Overwrite/add
 - Sub-folder name designation
 - Timestamp option

15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
0	0	0	0	0	0	0	0	0	0	0	0	0			

0: Overwrite
1: Add

0: Use default sub-folder
1: Designate sub-folder name

0: With time stamp
1: Without time stamp

0: Printer
1: Storage device (PDF output)

Configuration of settings
Go to [Home]> [Registration Item]> [Data Sheet] and click [Edit] > [Data Sheet Setting].
Check [Use PDF Output Function] to make necessary settings.

Data Sheet Setting

☐ Convert to Extended Data Sheet

Print Data Sheet No. Setting Device
Internal 0 $u 16330

Paper Size   A4 Portrait
Characters   80
No. of Lines 66

☐ Use Character Graphic Print

☑ Use PDF Output Function
  ● Overwrite   ○ Add
  ☐ Command Device
    Internal 0 $u 00100
  ☐ File Designation
    ○ Device   Internal 0 $u 00100
    ● File Name
  ☑ Append timestamp to filename
  ☐ Designate the sub-folder name
    ○ Device   Internal 0 $u 00100
    ● Sub-folder Name   LIST/
PDF Output Drive   None

OK   Cancel

When using SYS(STA_LIST) command, use the system device $s1656 to determine the following:
 - Printer output/PDF output
 - Overwrite/add
 - Sub-folder name designation
 - Timestamp option

17. USB camera: additional features

Model: V9 series

Outline

Macro commands to stop/start recording were added to event record function.
You can play the file using the Video Player function while recording is stopped.
Stop recording to increase the screen switching speed.

- Macro commands -
Stop   USBCAM_REC STOP
Start   USBCAM_REC START

---

18. RESTART macro command: additional features

Model: V9 series

Outline

New parameters were added to SYS(RESTART) macro command.

Existing operation 1   Restart (F1+1 Bit 0: OFF)
RUN screen > splash screen + "Restarting…" > local screen + "Restarting…" > splash screen > RUN screen
* When F1=0, the "Restarting..." message is not displayed.
When F1= other than 0, the "Restarting…" message is displayed for F1 second(s).

Existing operation 2   Restart from the OS (F1+1 Bit 0: ON)
RUN screen > splash screen + "Restarting…" > local screen > splash screen + "Restarting…" >
local screen + "Restarting…" > black screen > Data Loading... > splash screen > RUN screen
* When F1=0, the "Restarting..." message is not displayed.
When F1= other than 0, the "Restarting…" message is displayed for F1 second(s).

- Macro commands -
SYS(RESTART) F1

F1	Time (second)		
F1+1	Bit 0 OFF Restart		Existing operation 1
	Bit 0 ON Restart from the OS		Existing operation 2
	Bit 1 ON Hide the local screen	NEW	
	Bit 2 ON Hide "Restarting…" message on the splash screen	NEW	
	Bit 3 ON Display "Restarting…" message after F1 second(s)	NEW	Valid when the Bit 0 is ON.

---

19. Additional system devices

Model: V9 series

Outline

You can store the version information in $s1018 by setting the value to the system device $s1016 with MOV macro command.

- System devices -

| $s1016	0: System program version	14: PLC5 driver version
	3: Font version	15: PLC6 driver version
	4: OS version	16: PLC7 driver version
	10: PLC1 driver version	17: PLC8 driver version
	11: PLC2 driver version	18: Simulator version
	12: PLC3 driver version	22: Japanese conversion function (FEP) program version
	13: PLC4 driver version	
$s1018	Stores version information based on the value set in $s1016.	

Example

To obtain the OS version:

Execute $s1016=4(W) with the switch ON macro.

⋮
∨

The OS version is stored in $s1018.

$s1018=380   represents "OSVer.3.80".

---
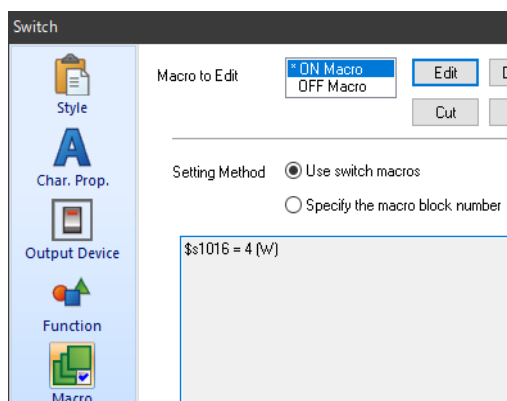
20. Tag import: Siemens TIA Portal Ver.15.1/16 supported

Outline

The import of TIA project files (*.ap15_1 and *.ap16) created with Siemens' software TIA Portal (Ver. 15.1/16) was supported.

21. Additional parts library

Model: V9 series

Outline
There are more parts to choose from. It can be displayed clearly even when enlarged.
Animation parts can be displayed dynamically by changing the lamp device
with macro commands or PLC ladder program.

- Panel Meter -
Plain > Illustration1/Illustration2
Real > Metal1/Metal2

- Switch -
Plain > Plant 1
Animation > Blower1/Valve1
Real > Plant 4

- Lamp -
Plain > Plant 1
High-Res. > Tank1/Tank2/Blower1
Animation > Pipe1/Pipe2/Pipe3/Pipe4/Pipe5/Pipe6/Blower1/Valve1
Real > Plant 4

Animation
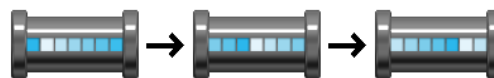
Panel Meter
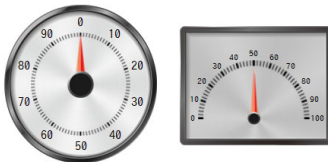
Tank1
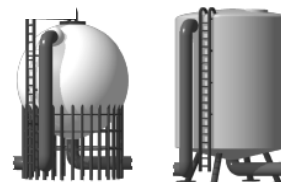
22. Parts: Flipping image supported

Outline
Flipping switch/lamp image (up/down/left/right) was supported.
  * excluding [2D > Square2]
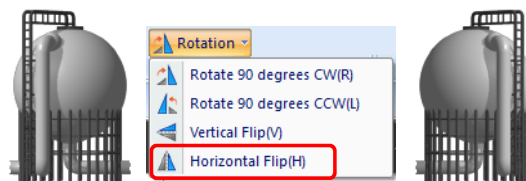
23. Font setting: comment feature supported

Outline
The [Comment] box of each language was added to [System Setting] > [Font Setting].
Comments are displayed on the [Language Display] menu, multi-language edit sheets, etc.
This is useful when editing multiple languages with the same font.

Language display

Display language

Multi-language edit

24. Additional auto-resizing feature

Outline
A setting that resizes text in points was added for converting a screen
program to the one with different resolutions.

When changing from "QVGA(320 x 240)" to "VGA(640 x 480)", it will be twice
the size in each direction. Thus texts in 10pt will become 20pt and 16pt to 32pt.
However, the layout must be adjusted to fit the text.

Applicable fonts
TrueType font, gothic font, stroke font, Windows font, and 7-segment font

Configuration of settings
Go to [File] > [Property] > [Edit] and check the
[Calculate text size in points by ratio for automatic resizing
when an editing model is changed] box.
The setting change will be effective from the next startup.

After restarting the V-SFT, open the screen program and change the editing model.
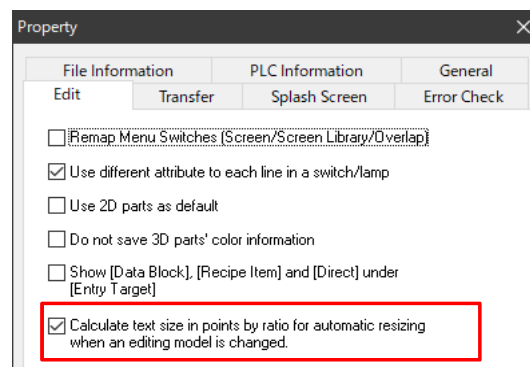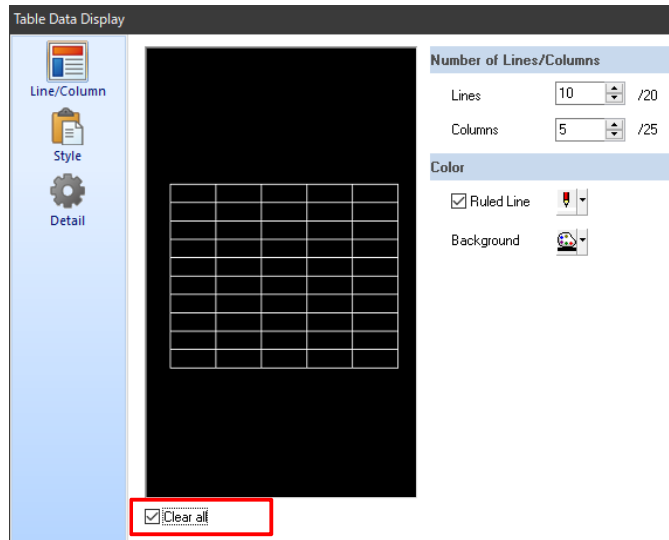
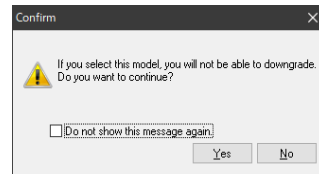|	
Editor	**25. Table data display: additional feature** Outline A setting to create only table borders was added. Configuration of settings Go to [Line/Column] and check the [Clear all] checkbox.

Table Data Display

Line/Column
Style
Detail

Number of Lines/Columns

Lines 10 /20
Columns 5 /25

Color
☑ Ruled Line
Background

☑ Clear all

Editor	**26. Additional confirmation window** Model: V9 Outline A confirmation window appears when creating a V9 screen program.

Confirm ✕

⚠ If you select this model, you will not be able to downgrade. Do you want to continue?

☐ Do not show this message again.

Yes   No

Editor	**27. Project view: additional feature** Outline The [Edit Comment] button was added to the Project View.

Project View ✕

System Setting

Registration Item
New Copy Edit Delete Edit Comment

Search

Display Order Comment No. Thumbnail Display

Screen
0-99

MENU 0000

Comment Edit ✕

OK   Cancel
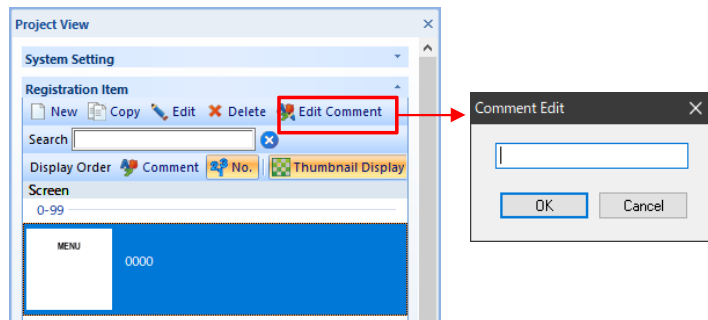
Editor	**28. Screen list: additional feature** Outline [Hide unregistered screens] was added to the right-click menu of the Screen List.

Cut   Ctrl+X
Copy   Ctrl+C
Paste   Ctrl+V
Delete   Delete
Move
Select All   Ctrl+A
Delete All
Edit
Enlarged Display
Hide unregistered screens

Screen [1]   Screen List - [Screen(0 - 1023)] ✕

[0]   [1]   [50]
MENU   MONITOR   MAINTENANCE

[   ]   [   ]   [   ]
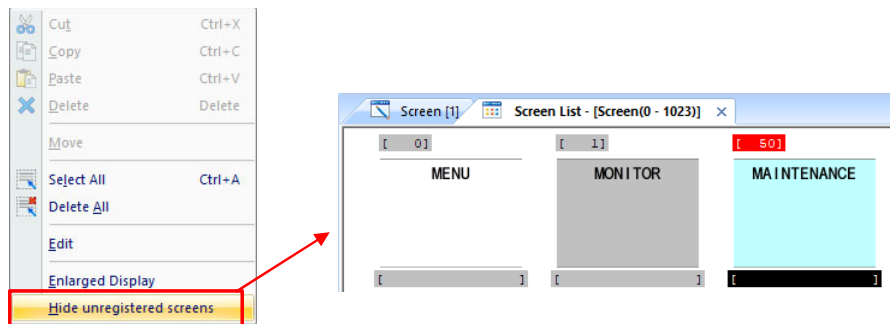
DVD	**29. V-SFT-6 DVD** Outline The update module of V-SFT-5 is bundled to the V-SFT-6 DVD. * Since the V-SFT-5 is an update module, install it on a PC with the V-SFT-6 or an older version of the V-SFT-5 installed. * The PDF manuals for the V-SFT-5 Help menu are not installed. Please download and install the documentation from our website.

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V-SFT-6 Update information

V-SFT version	6.0.34.0
System program version	V9: 2.000 TS: 2.300 V8(N): 2.280
OS version	V9: 3.80

| Description of Updates	
Connection	**1.** Additional connectable device: Fuji Electric ALPHA7 Model: V9/TS/V8(N) PLC Model: Fuji Electric ALPHA7 (MODBUS RTU)
Connection	**2.** Additional connectable device: MITSUBISHI ELECTRIC QnH (A) series CPU Model: V9/TS/V8(N) * Connectable to the CN1 port only. PLC Model: MITSUBISHI QnH (A) series CPU
Connection	**3.** Additional connectable device: Panasonic FP0H Model: V9/TS/V8(N) PLC Model: FP Series (RS232C/422) /FP Series (UDP/IP) /FP Series (TCP/IP)
Connection	**4.** Extended function: Fatek Automation FACON FB series - Rising pulse/falling pulse supported Model: V9/TS/V8(N) PLC Model: FATEK AUTOMATION FACON FB series Description: "Single Command" mode was added to [Transmission mode] to support single discrete control.

Function	**5.** Extended system device: IP addresses of LAN2/WLAN
	  Model: V9 series
	
	 [Outline]
	 Current IP addresses of LAN2/WLAN are stored.
	  LAN2: $s1770 - 1773
	  WLAN: $s1774 - 1777

Function	**6.** USB Camera
	  Model: V9 Advanced (with analog touch switch)/V9 Standard/V9 Lite
	   *Use of landscape only.
	 Specification: The USB camera must support USB2.0, compatible with UVC, and be at a resolution of 320x240 / 640x480.
	   *A USB HUB with an external power supply is required to connect the camera.
	    The USB camera must be connected to port 1 on the USB HUB.
	 [Outline]
	 - You can display the image captured through a USB camera in real-time.
	 - Event Record function: Working in conjunction with Alarm function, you can record movies before and after an error has occurred in mp4 format.
	
	 <Configuration of settings>
	 [System Setting] > [Hardware Setting] > [Connected Device] > [USB Camera]
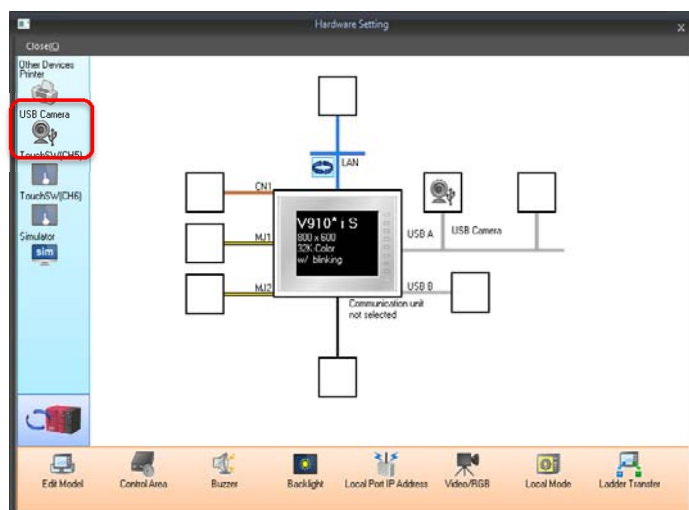
<Real-time display>
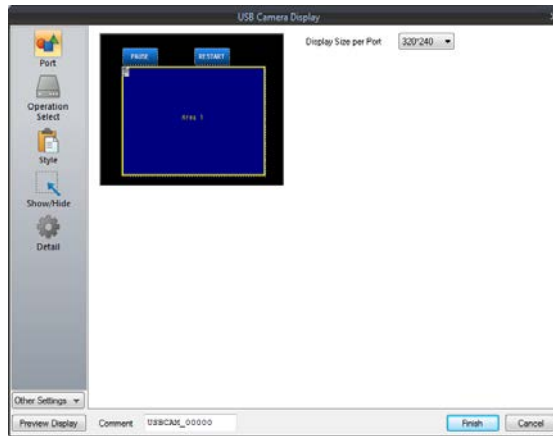
You can display a real-time image from a USB camera.

[Configuration of settings]
[Parts] > [Image Display] > [USB Camera Display]

<Event Record function>

You can record the video before and after a malfunction. (Maximum recording time: 180 seconds)

[Configuration of settings]
1. [System Setting] > [Hardware Setting] > [USB Camera Properties] > set [Event Recorder Function] to "Yes".
2. [System Setting] > [Alarm Block No. x] > [Alarm Device] tab > set [Recording] to "Enable".
    Check [Record occurrence] and/or [Record resetting] and specify each recording time.

    e.g.) Recording video before 90s and after 60s of the occurrence, as well as before 90s and after 30s of the reset:
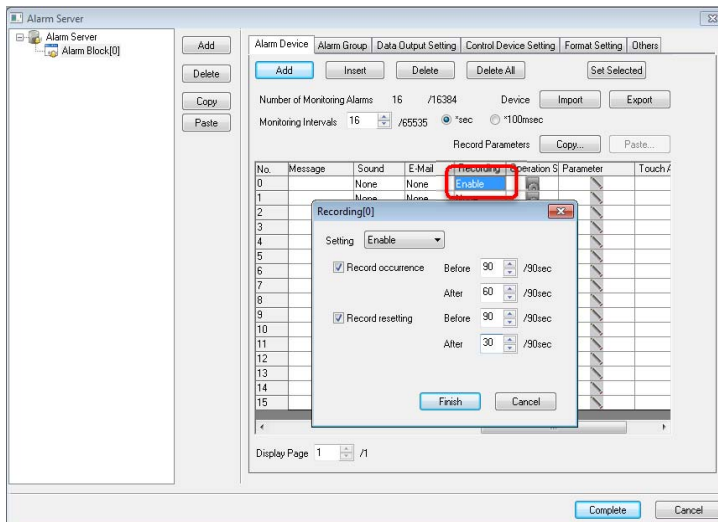
*Please refer to "8. Alarm " in V9 Reference Manual 1 for further details.

You can add a timestamp to the video. (settings: [Hardware Setting] > [USB Camera Properties])
 * The frame rate of the file decreases as the process to combine the timestamp and the image occurs.

7. Alarm Server - [Put msec information on time] option supported

Model: V9 series
Function: Event History

[Outline]
This option records the time of the event history in msec.
Display in msec is available only for [Alarm Time Display] item.

[Configuration of settings]
Alarm Server
 [System Setting] > [Alarm Block No. x] >
 [Others] tab > [Put msec information on time]

Event history parts:
Num. display with [Alarm Time Display] function > [Digits]

	Less than 8 digits : No display
	8 to 11 digits : hh:mm:ss
NEW	12 to 13 digits : hh:mm:ss.msec
	14 to 17 digits : mm-dd hh:mm:ss
NEW	18 digits : mm-dd hh:mm:ss.msec
	19 to 22 digits : yy-mm-dd hh:mm:ss
NEW	23 digits or more : yy-mm-dd hh:mm:ss.msec

Function
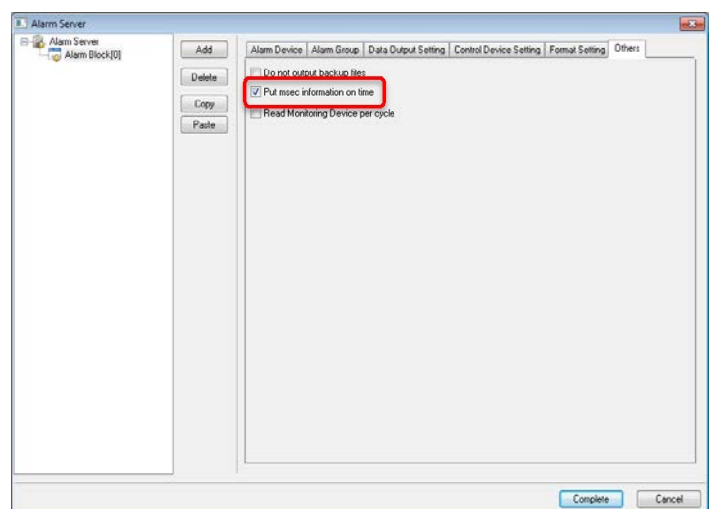
	8. Recipe dialog box - Date and time display supported
	Model: V9 series

[Outline]
Date and time of creation and update can be displayed on the recipe dialog box so you do not need to use a PC or a storage viewer to check them.

[Configuration of settings]
- Recipe
  [System Setting] > [Recipe] > [Recipe No. x] > [Standard Operation] > [File-based transfer]
- Switch
  Function: Recipe Data Save/Recipe Data Load/Recipe Data Delete
  [File Selection] > [Select at the time of execution] > check [Display date created] and/or [Display date modified].
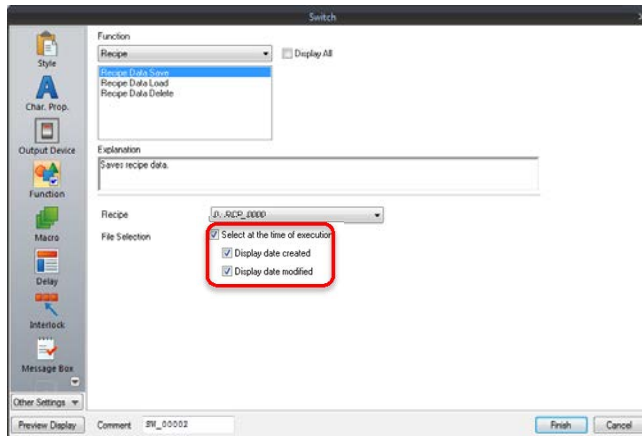
Image of the Recipe dialog box

Function

Editor

9. Program conversion from V8 to V9: New dialog box for Ethernet port conversion
    Model: V9 series

[Outline]
An additional dialog box helps to convert a V8 screen program with an Ethernet unit setting (CU(N)-03-x) to V9.
Previous conversion mode forcefully converts the V8's Ethernet unit setting to V9's LAN unit (CUR-03) so you needed to change to LAN/LAN2 manually after that. This new dialog box allows you to choose your desired port during the conversion.
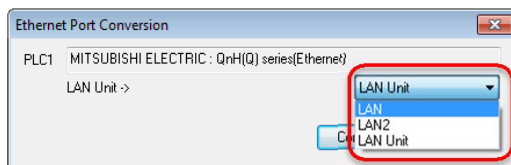
Choose from LAN, LAN2, or LAN unit (CUR-03).

Editor

10. Ver. 5 Style view supported (texts and toolbar)

[Outline]
V-SFT Ver. 5 style is available for the texts and toolbars. It is useful if you are familiar with the V-SFT-5 interface.

[Configuration of settings]
[File] > [Property] > [General] > [Menu Setting] > click [Ver5 Style (Text and Toolbar)]
  * Restart V-SFT-6 to apply a new setting.
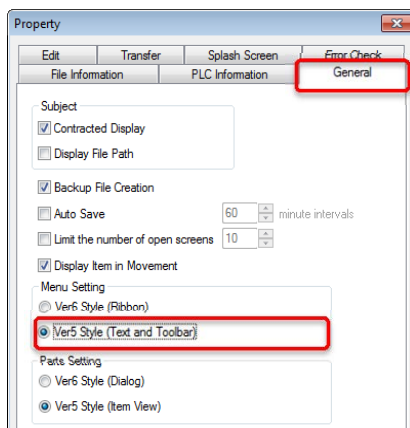
Ver. 5 style image
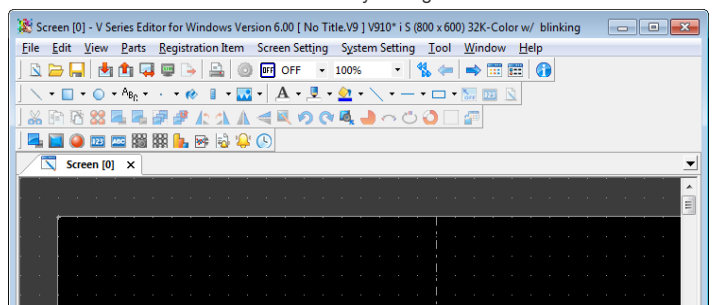
Editor

11. New shortcut key: Device Address Use

[Outline]
A shortcut key for Device Address Use was supported.

Shortcut key: Ctrl + U

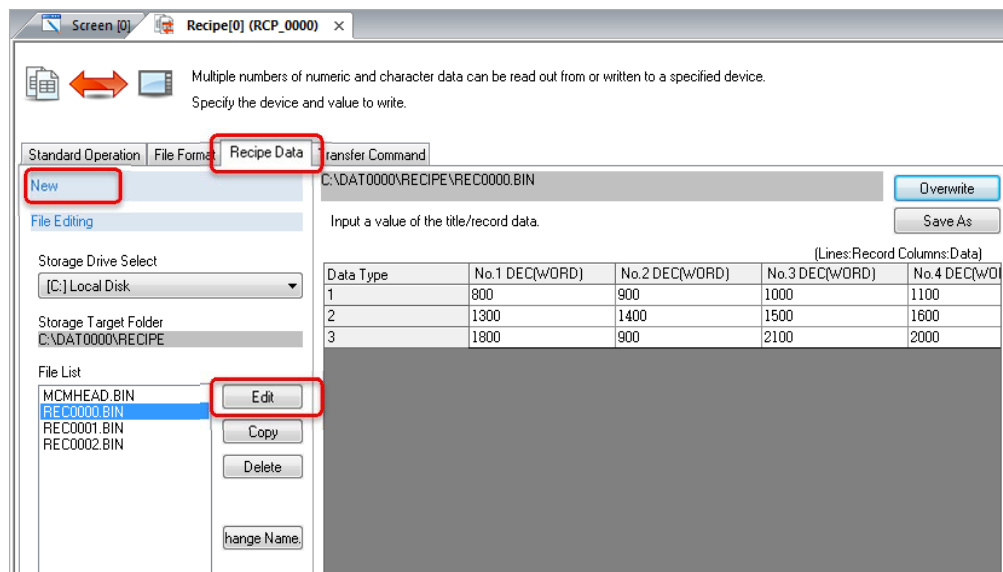## 12. Recipe: Extended specifications

Model: V9 series

[Outline]
You can create and edit a recipe Data file in BIN format for Memory Card mode (V8-compatible).

[Configuration of settings]
[System Setting] > [Recipe] > [Recipe No. x] > [Recipe Data] tab

13. Print and Rich Text Format output: Extended specifications

Model: V9 series

[Outline]
When a magnification of a screen or an overlap is set to larger than 1x1, this option allows you to output scroll area as well to output the screen image using Print menu or Rich Text Format output menu.

[Configuration of settings]
- [File] > [Print] > [Print Settings]
- [File] > [Print Preview]
- [Tool] > [Convert to Rich Text Format]
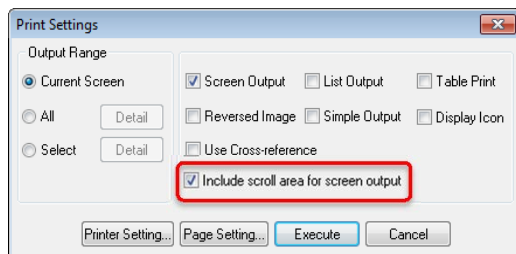
e.g.) Screen in 2x2 setting

Fe Fuji Electric
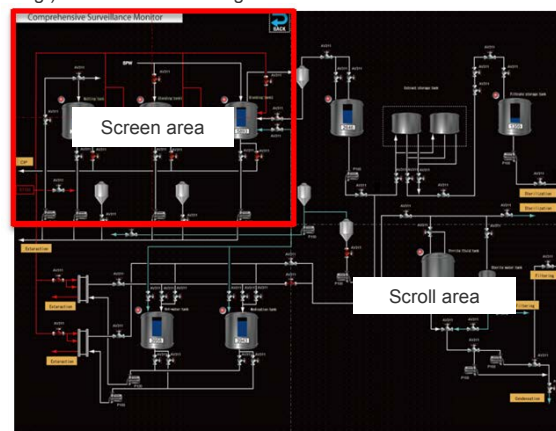
MONITOUCH

V-SFT-6 Update information

V-SFT version	6.0.32.0
System program version	V9 : 1.900 TS : 2.280 V8(N) : 2.280
OS version	V9 : 3.50

Description of Updates

Connection	1.	**Additional connectable device: OMRON E5CC/E5EC/E5AC/E5DC/E5GC** Model: V9/TS/V8(N) PLC Model: OMRON E5CC/E5EC/E5AC/E5DC/E5GC
Connection	2.	**Additional connectable device: NITTOKU ITS-HRW110** Model: V9/TS/V8(N) PLC Model: NITTOKU ITS-HRW110
Connection	3.	**Extended function: Yaskawa Electric DX200 (High-Speed Ethernet) - File control commands supported** Model: V9/TS(i)/V8i(N) PLC Model: Yaskawa Electric DX200 (High-Speed Ethernet) Description: File control commands become available by using PLC_CTL macro command.
Connection	4.	**Extended function: Modbus slave (TCP/IP) - User-configurable port number supported** Model: V9/TS(i)/V8i(N) PLC Model: Modbus slave (TCP/IP) Description: Port number which was fixed to 502 becomes user-configurable within the range from 1024 to 65535. (502 as default)
Function	5.	**E-Mail: extended function** Model: V9 series

5. E-Mail: extended function

Model: V9 series

- E-Mail server name setting

[Outline]
SMTP server name can be used as well as SMTP IP address.

[Configuration of settings]
[System Setting] > [Ethernet Communication] > [E-Mail]

- Alarm function

[Outline]
When an alarm occurs, V9 sends an e-mail including an attachment file. (The file will not be attached when the alarm is reset.)

[Configuration of settings]
1. [System Setting] > [Ethernet Communication] > [E-Mail]
2. [System Setting] > [Alarm Block No. x] > [Alarm Device] tab > [E-Mail: Enable] > Check [Send when the alarm occurs]
   > Check [Attach the specified file] > Click [Edit] button

e.g.) When an alarm occurs, an e-mail is sent with the latest file in the LOGGING folder of the SD card attached.

e.g.) Yahoo Mail's SMTP server name
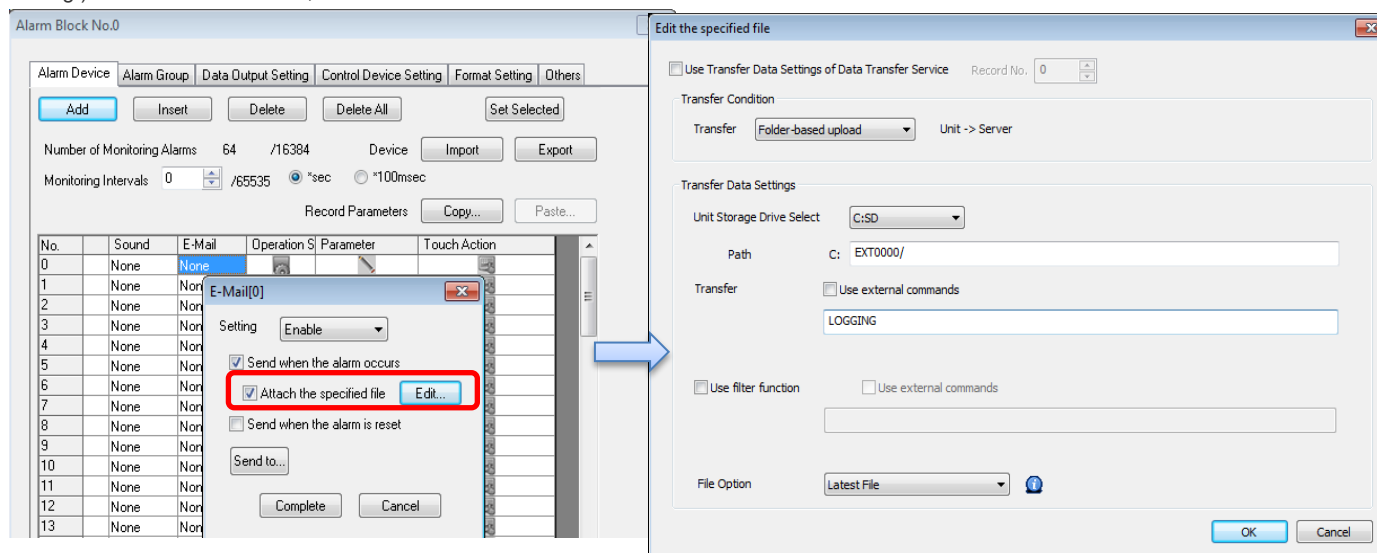
* For further information about alarm function, please refer to [Chapter 8 Alarm] in V9 Reference Manual 1 .

- Data Transfer Service function

[Outline]
V9 sends an e-mail with an attachment file using Data Transfer Service function.

[Configuration of settings]
1. [System Setting] > [Ethernet Communication] > [E-Mail]
2. [System Setting] > [Data Transfer Service] > [List of Destination Servers] and register your desired e-mail server.
3. [Record List] to set the condition and file.

e.g.) When $u1001-00 is set, an e-mail is sent with the latest file in the LOGGING folder of the SD card attached.

Function

* For further information about data transfer service function,
please refer to [Chapter 6 Ethernet] of V9 Reference Manual 2.

All the files with the same time stamp will be attached.

---

6. WLAN: connection to the access point in stealth mode supported

Model: V9 series

[Outline]
V9 can access to the access point which is in stealth mode
due to security reason.

The access point which is in stealth mode and allowed to access from V9,
local screen > [WLAN Setting] > [Select AP to Connect]
> [Search Nearby] to view the list.

Function

[Configuration of settings]
Local screen > [WLAN Setting]
1. [Wireless Settings] > [Operation Mode: Station]
2. [Wireless Option] > [IP Address Setting: Manual] >
   check [Allow connection to stealth mode access point]
3. [Select AP to Connect] > [Search Nearby] and select an access point

*Once connection is established, next connection will be automatically established upon powering on.

7. Transition effect by macro commands supported
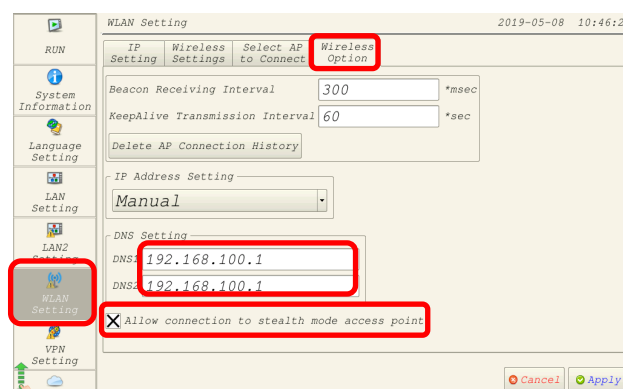
Model: V9 series

[Outline]
Transition effect can be added to the macro commands, SYS (SET_SCRN) for screen changeover, SYS (OVLP_SHOW) for normal overlap display, and SYS (SET_MOVLP) for multi or global overlap display. Available effects are the same as the ones for the switch function.

[Configuration of settings]
[System Setting] > [Unit Setting] > [General Setting] and check [Enable transition function by macro commands] (unchecked as default)

* For further information about transition effect, please refer to [Chapter 3 Switch] in V9 Reference Manual 1.

Function

SYS(SET_SCRN)

Value	
F0	SET_SCRN
F1	0 to 9999: screen number
NEW! F1+1	Type No.
F1+2	Switch-over time (x100 ms)

F1+1: Type No.
- 0: Slide-in
- 1: Slide-out (with fade effect)
- 2: Box-in
- 3: Box-in (with fade effect)
- 4: Fade-in
- 5: Slide-out
- 6: Slide-out (with fade effect)
- 7: Box-out
- 8: Box-out (with fade effect)
- 9: Slide
- A: Slide (with fade effect)
- B: Switch
- C: Jump
- D: Card flip
- E: Gallery *1
- FFFF: No transition effect applied

For slide-in/slide-out/slide/switch/jump/card flip/gallery effects:

MSB — [15 14 13 12 11 10 09 08 07 06 05 04 03 02 01 00] — LSB
Reserved (0)   Reserved (0)

Upper byte
0: move to right 1: move to left 2: move to top 3: move to bottom
*For jump and card flip,
0: change type 1 1: change type 2 2: change type 3 3: change

Lower byte
Type No.

*1 For gallery, only left and right are available.

NEW! F1+2: Switch-over time (x100 ms)
- 2 to 10: Slide-in/box-in/fade-in/slide-out/box-out/slide
- 5 to 10: Switch/jump
- 3 to 10: Card flip
- 5 to 20: Gallery

[Example]
When changing to screen 1, slide-out effect from right to left is applied:

$M00000 = 1 (W)
NEW! $M00001 = 105H (W)
NEW! $M00002 = 5 (W)
SYS (SET_SCRN) $M00000

SYS (OVLP_SHOW)

Value	
F0	OVLP_SHOW
F1	0 to 9: Overlap ID
F1+1	0: OFF (hide) / 1: ON (show)
NEW! F1+2	Type No.
NEW! F1+3	Switch-over time (x100 ms)

F1+2: Type No.
- 0: Slide (from outside of a screen)
- 1: Slide (from outside of a screen with fade)
- 2: Slide (short distance with fade)
- 3: Fade
- FFFF: No transition effect applied

Slide (from outside of a screen or short distance)

MSB — [15 14 13 12 11 10 09 08 07 06 05 04 03 02 01 00] — LSB
Reserved (0)   Reserved (0)

Upper byte
0: move to right 1: move to left 2: move to top 3: move to

Lower byte
Type No.

F1+3: Switch-over time (x100 ms)
- 2 to 10: slide (from outside of a screen)
- 2 to 5: slide (short distance or fade)

[Example]
When displaying the overlap ID No. 0, slide (from outside of a screen) to top is applied.
Switch-over time: 500 ms
$M00000 = 0 (W)
$M00001 = 1 (W)
NEW! $M00002 = 200H (W)
NEW! $M00003 = 5 (W)
SYS (OVLP_SHOW) $M00000

SYS (SET_MOVLP)

Value	
F0	SET_MOVLP
F1	0 to 9: Overlap ID
F1+1	0 to 9999: Overlap library number
F1+2	X axis
F1+3	Y axis
NEW! F1+4	Same as F1+2 of SYS (OVLP_SHOW) *See above.
NEW! F1+5	Same as F1+3 of SYS (OVLP_SHOW) *See above.

[Example]
When displaying overlap number 12, slide (short-distance with fade) moving to left is applied.
Switch-over time: 500 ms
$M00000 = 0 (W)
$M00001 = 12 (W)
$M00002 = 50 (W)
$M00003 = 5 (W)
NEW! $M00004 = 102H (W)
NEW! $M00005 = 5 (W)
SYS (SET_MOVLP) $M00000

8. "DEL_FILE" macro command supported (for deleting specified files)

Model: V9/TS/V8 series

Function

[Outline]
Specified file(s) in a storage can be deleted by the "DEL_FILE" macro command.

	Value	Remarks
F0	Full pathname	Drive designation C: Built-in SD card socket D: Storage connected to USB

e.g.) Delete all PDF files in the LIST folder:
    $M00000 = 'C: \EXT0000\LIST*.PDF' (STRING)   * Specify "*" as file name and extension to delete all the files in the folder.
    DEL_FILE $M00000

---
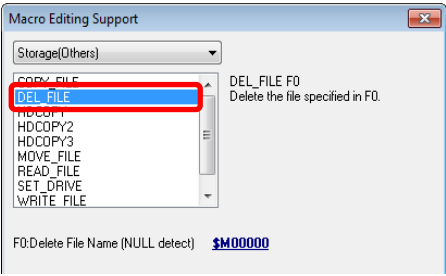
9. Show/hide the progress bar on the splash screen

Model: V9 series

Function

[Outline]
It is possible to hide the progress bar which is displayed on the splash screen when power on or switching RUN/STOP.

[Configuration of settings]
[File] > [Property] > [Splash Screen] and check [Hide progress bar during startup] (uncheck as default)

Unchecked (as default)

Checked

Progress bar

---
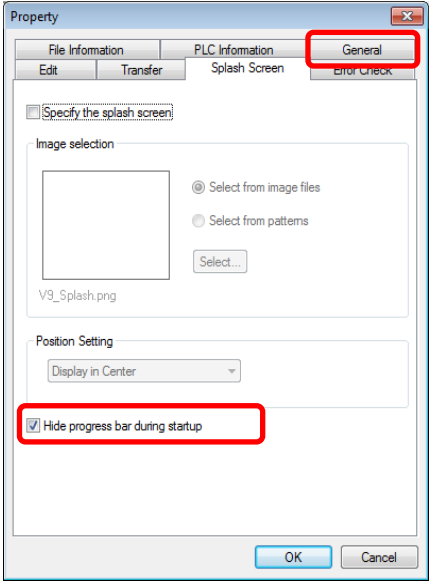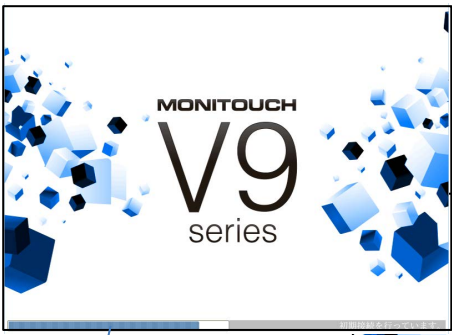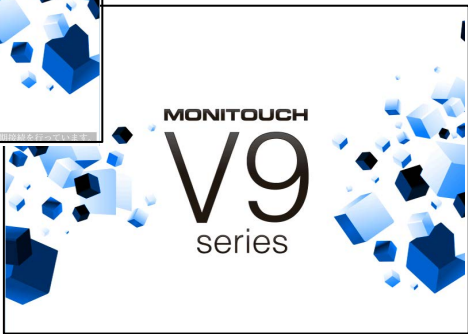
10. Improved usability of the Multi-language sheet

Editor

[Outline]
Multi-language edit sheet in [Home] > [Registration Item] > [Multi-language] shows using part to which you can jump by double-clicking the cell.
It is also possible to hide the column(s) in the sheet so that you can view and edit the desired columns only, for example, the first language and the third language only.

[How to show/hide column]
Select desired column (Shift key or Ctrl key for multiple selection available) and right-click to display [Hide].
(To show the column again, click [Show All].)

e.g.) When hiding the second and fourth languages:

Double-click a cell in gray to jump to where the text is used.

11. Error check for Multi-language application

[Outline]
Warning is displayed when the second language or later has the item with no text.
Unregistered items can be easily identified.
* No warning will be displayed when the first language is not registered.

[Configuration of settings]
[File] > [Property] > [Error Check]
You can also set from the property icon on the Error check screen.

Check [Detect any setting without Multi-language when executing error check.]
(unchecked as default)
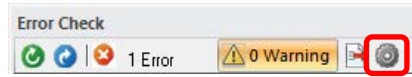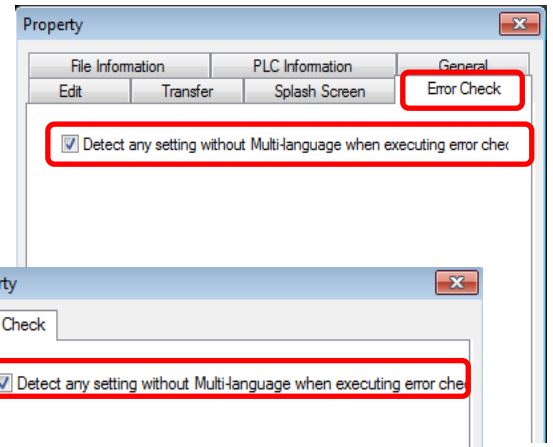
Editor

12. Guide display

[Outline]
Guide display function has been improved to be more user-friendly.

[Show/hide guides]
Ribbon menu > [View] > check [Guides]
Alternatively,
Right-click menu > [Grid] > check [Guides]

[Guide settings]
Ribbon menu > [View] >[Guide Settings]
Alternatively,
Right-click menu > [Grid] > ［Guide Settings］
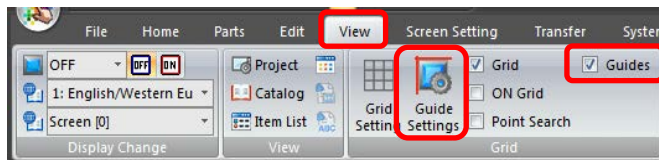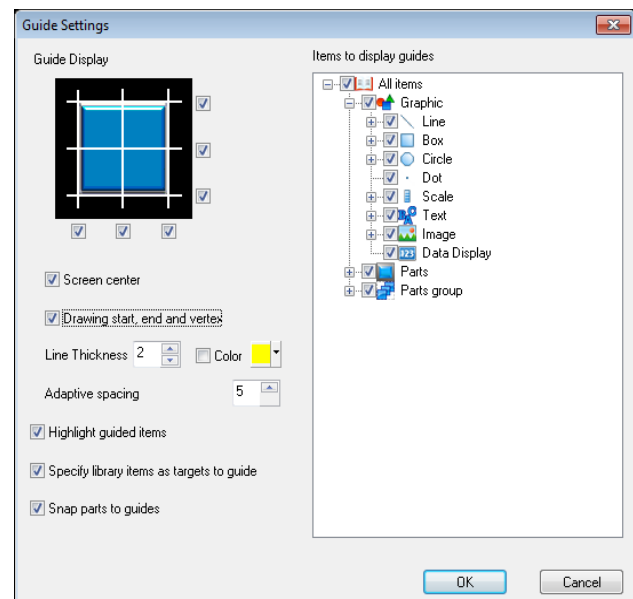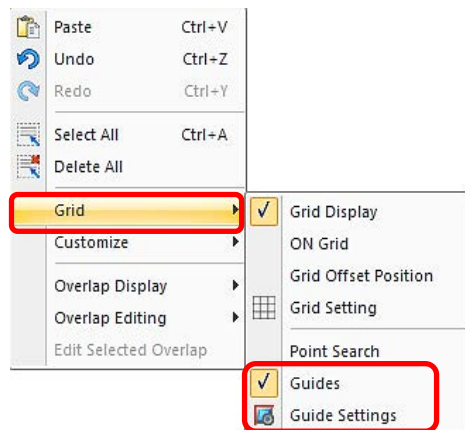
Editor

Or

13. OMRON: tree view for tag setting

[Outline]
[Tag Settings] for OMRON NX/NJ series can be viewed in tree view as well as conventional dialog view.
It is useful to view tags of structures or unions in easy-to-see format.

PLC type: OMRON NJ series (EtherNet/IP)

* For further details about tags and connection with NJ/NX, please refer to OMRON NX/NJ Series Connection manual.
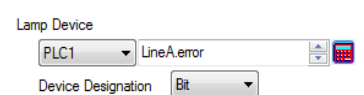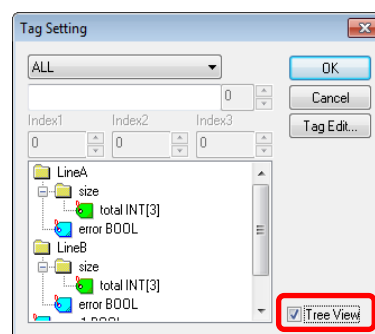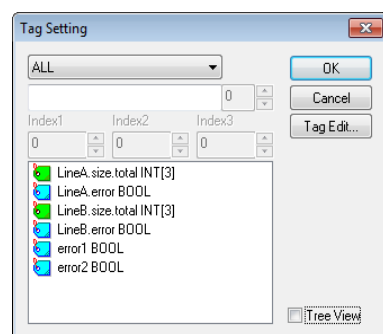
Editor

Editor	**14. Entry mode: added to [Function Item] view** [Outline] When an Entry mode icon is registered on a screen, information is also displayed in [View] > [Function Item view]. You can change or delete the settings from [Function Item view]. Entry mode icon
Editor	**15. Alarm Server: Copy and Paste commands for parameter setting supported** [Outline] Parameter setting in the alarm server can be copy and paste for easy setting.
Editor	**16. Switch/lamp: Rotation supported** [Outline] You can rotate all the switches and lamps 90 degrees clockwise or counterclockwise. Right-click menu
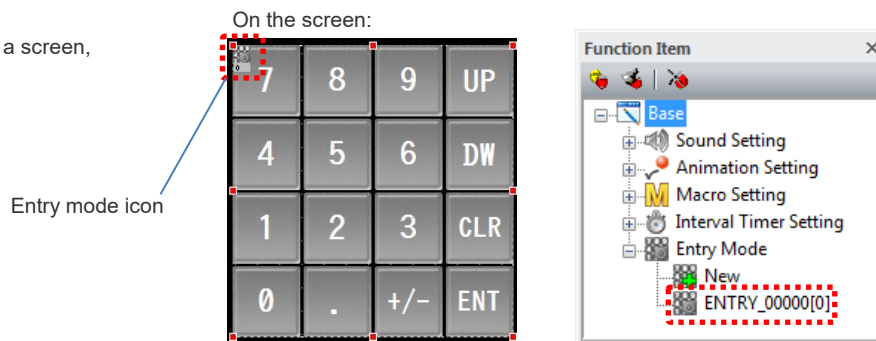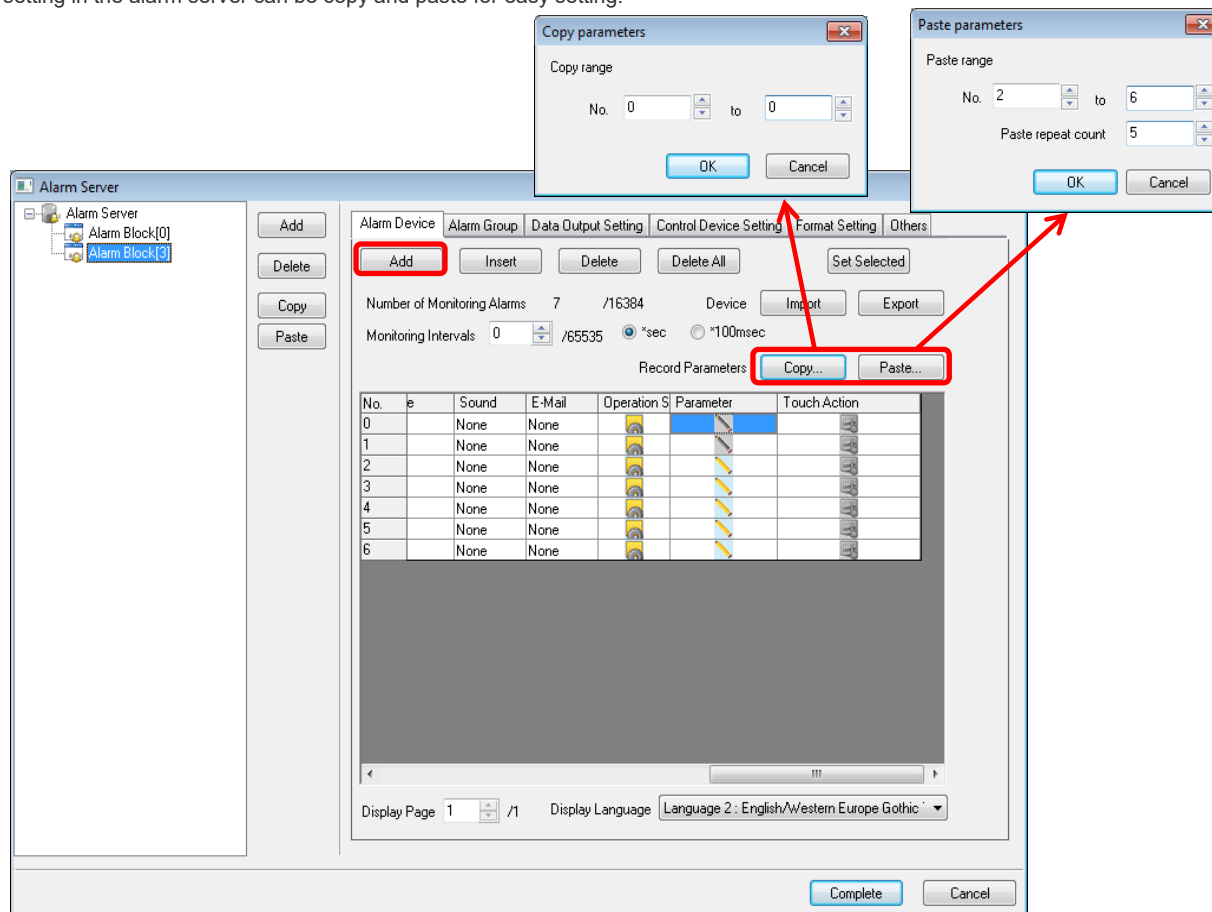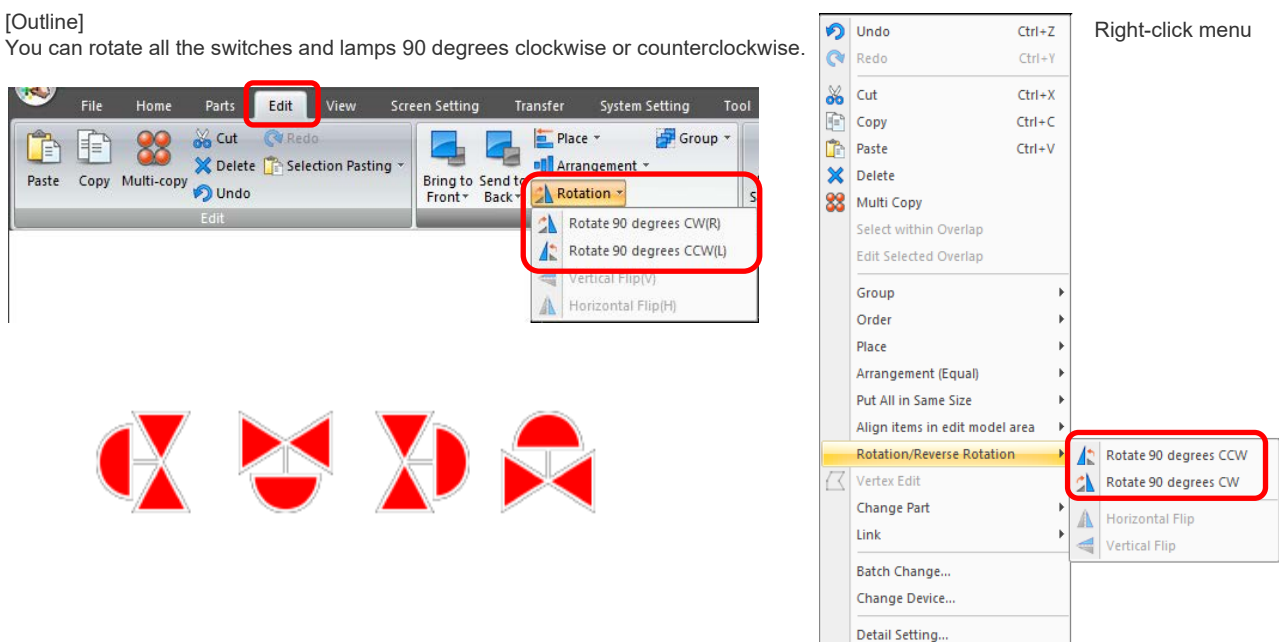
17. Enhanced macro edit function

- Macro block edit in Initial Macro setting and Event Timer Macro setting

[System Setting] > [Macro Setting] > [Initial Macro] or [Event Timer Macro] and click [Edit] to open the macro block directly.
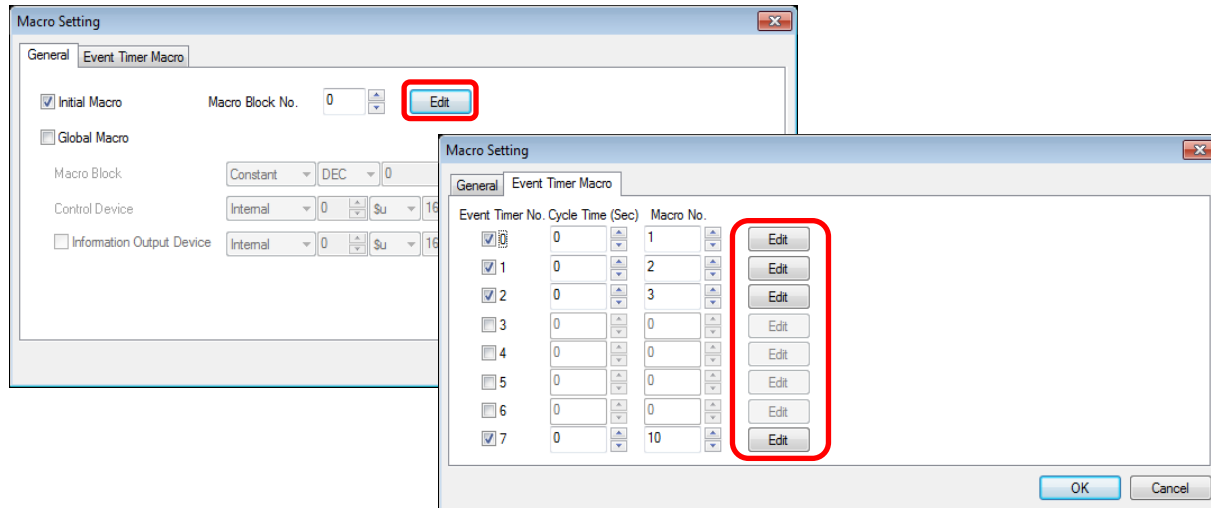
- Macro edit from CALL command

You can open the macro block directly from CALL command line to edit.

[How to use right-click menu]
Point the CALL command with a cursor and right-click to show the menu and click [Jump to the CALL target].
*Available only when macro block number is specified in the constant.
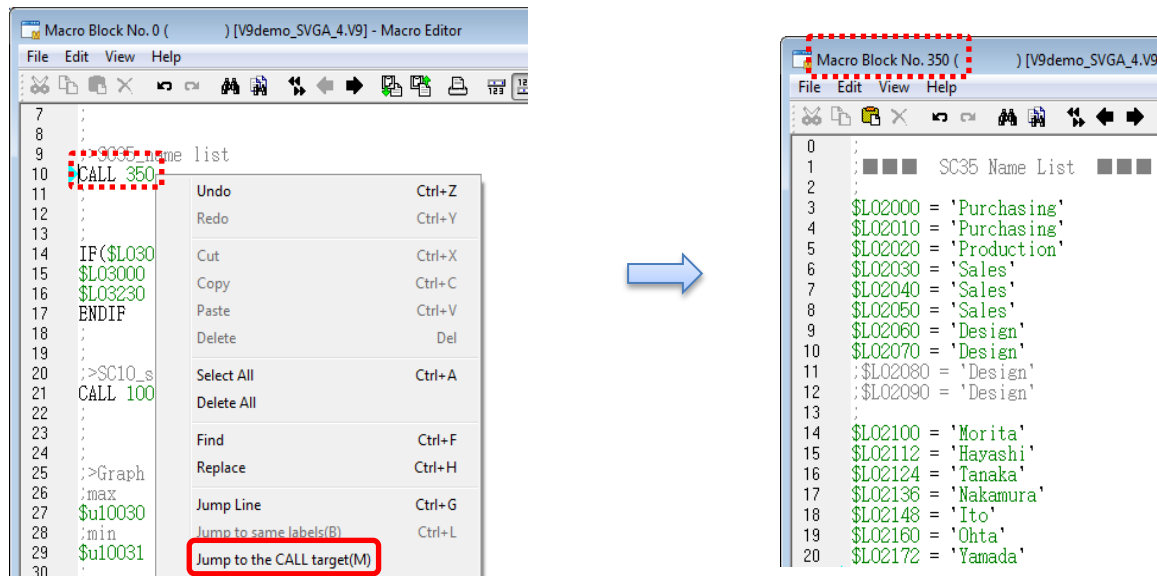
- Label search

You can search multiple labels with the same number declared as LB x or JMP LB x in a same macro block.

[Two methods to search the labels]
 1. Point LB x or JMP LB x with a cursor and right-click to show the menu and click [Jump to same labels]. (In ascending order only.)
 2. Keyboard shortcuts: Ctrl+L for ascending order   Shift+Ctrl+L for descending order
      e.g.) Searching LB3
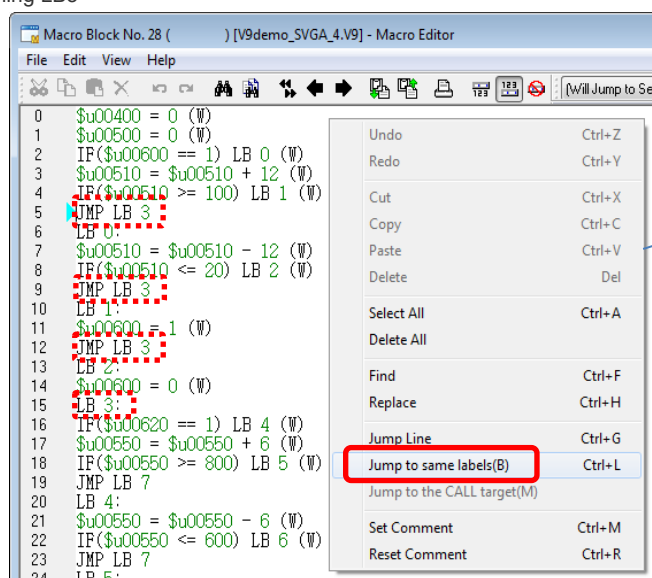
Right-click menu

Ascending order:
Line 5 > line 9 > line 12 > line 15 > line 5 > ….

Descending order:
Line 5 > line 15 > line 12 > line 9 > line 5 > ….

Editor
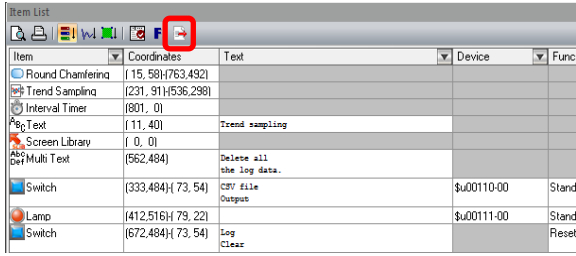
18. Export lists in CSV

[Outline]
The following lists can be created in CSV.
They can view with various application such as Excel etc.,.
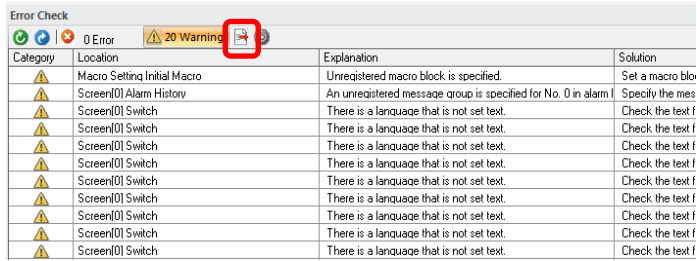
[Item List]

[Error Check]

[Device Address Use]   [Display] > [CSV EXPORT]

Editor
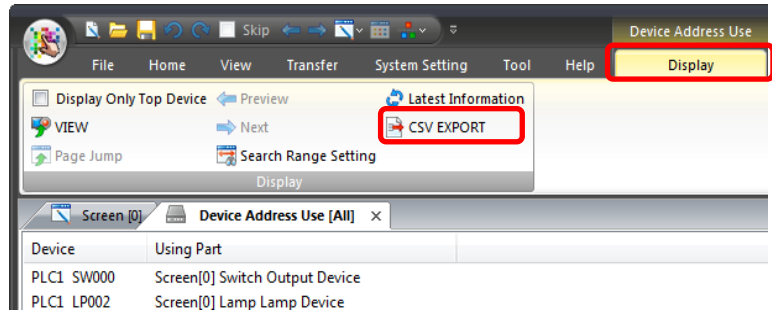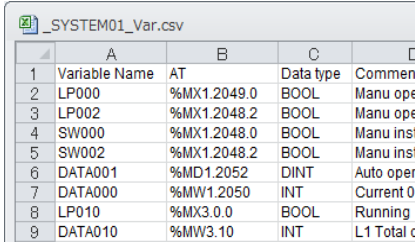
[Variable List]   [Variable List] > [CSV Export]   e.g.) CSV file image of the variable list
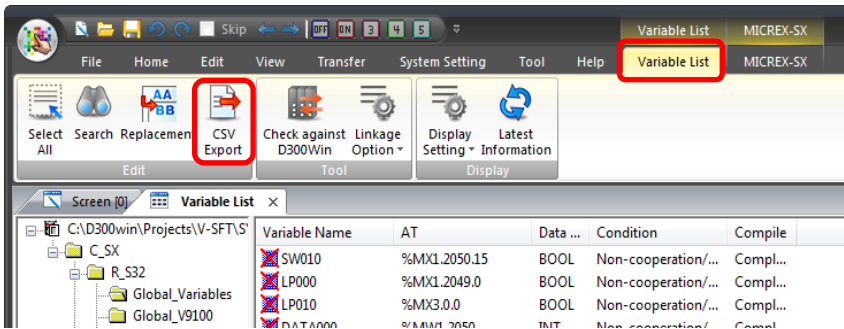
19. Extended cross-reference function

[Outline]
[Tool] > [Search] > [Cross-reference] additionally supports search of graphic library and pattern.
Search target includes the functions such as Graphic mode, Graphic Relay mode, and Graphic call, as well as pattern number used in the splash screen.
You can easily grasp where the items are used.

Editor
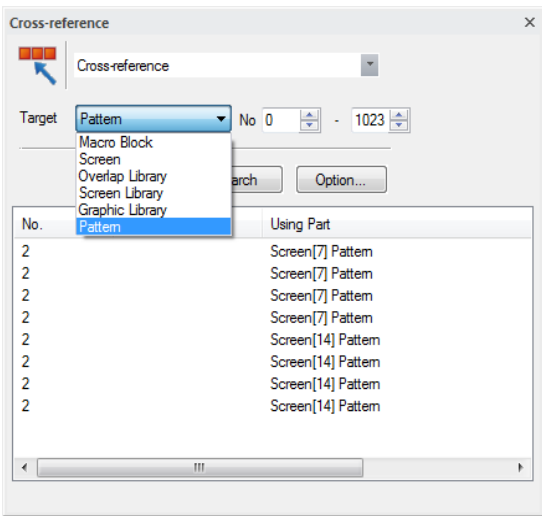
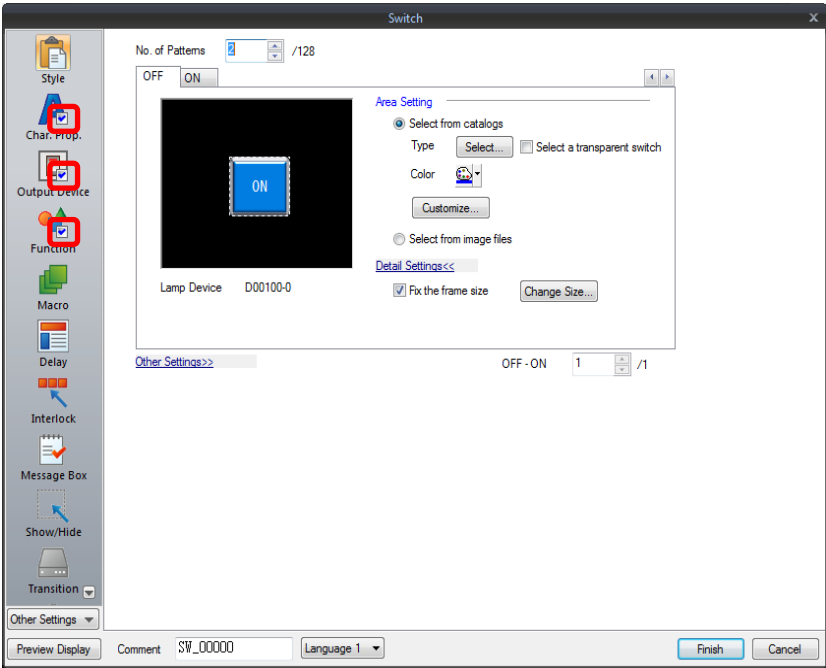## 20. Right-click menu: Extended [Customize] menu

[Outline]
Setting items in [Display Environment] can be set from the right-click menu [Customize] > [Others].
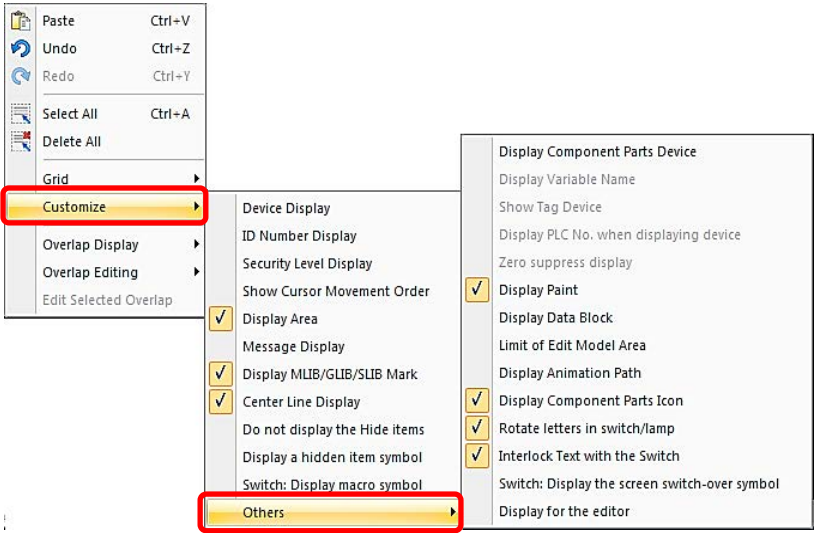
* View of the right-click menu
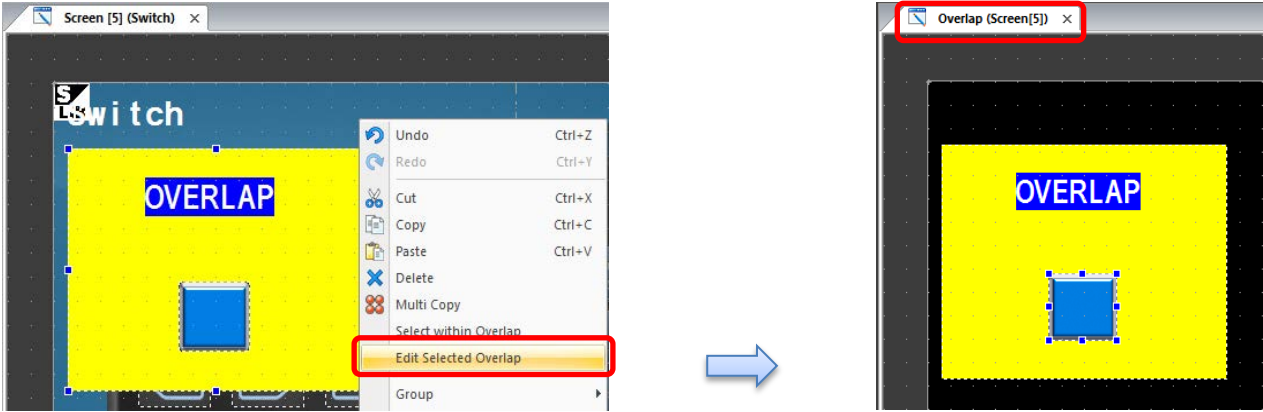 with no item on the screen selected

21. Improved visibility of dialog settings

[Outline]
Each item menu on the left pane is displayed with check mark when any configuration is made in the menu.
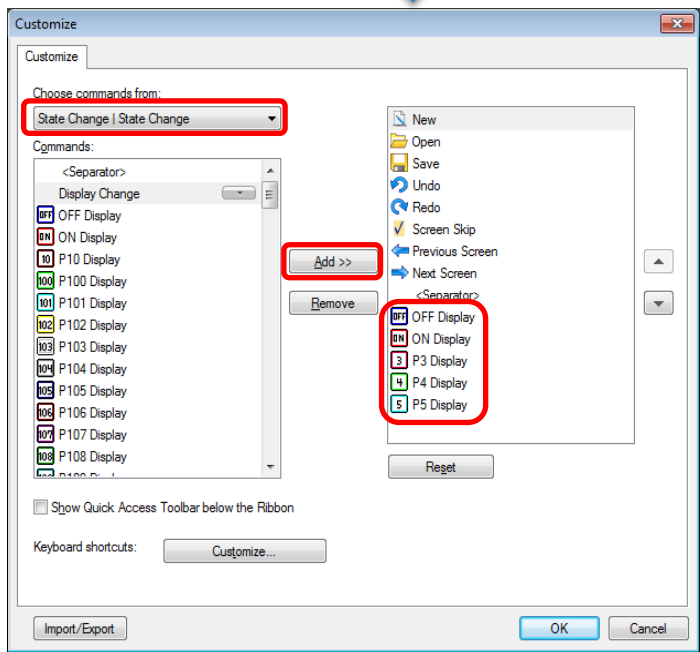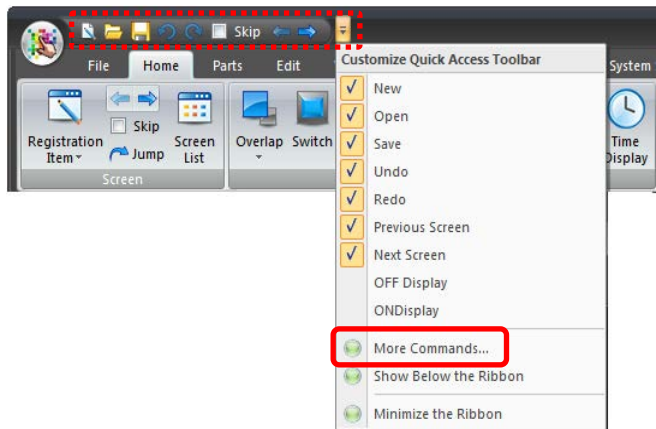

22. Overlap edit

[Outline]
After selecting an overlap, right-click menu > [Edit Selected Overlap] to change to overlap edit screen.

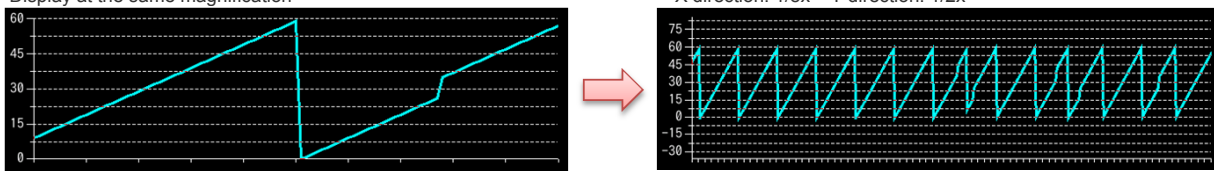|	
Editor	**23. Quick access tool bar: status switch icons for switch/lamp added** [Outline] State change icons to change the status of switch/lamp can be added to the quick access tool bar. [Configuration of settings] Click the down arrow of the quick access tool bar and select [More commands…]. e.g.) OFF to P5 switch-over using the quick access tool bar

Editor	**24. File > [Open] dialog: [All Files] option supported**
	
	[Outline]
	[All Files] option is available to open a screen program.
	All the files will be displayed regardless of the file extensions.
	
	*[Open] button
	 Option of the [Open] button changes depending on the file extension selected.
	
	 For .V7/.V6/.V4/.80/.U3/.U2/.UG/.UG2: [Convert and open]
	 For .V8/.U4: Selectable from [Open] to [Convert and open]
	 For .V9: Selectable from [Open] to [Convert as V8 compatible and open]
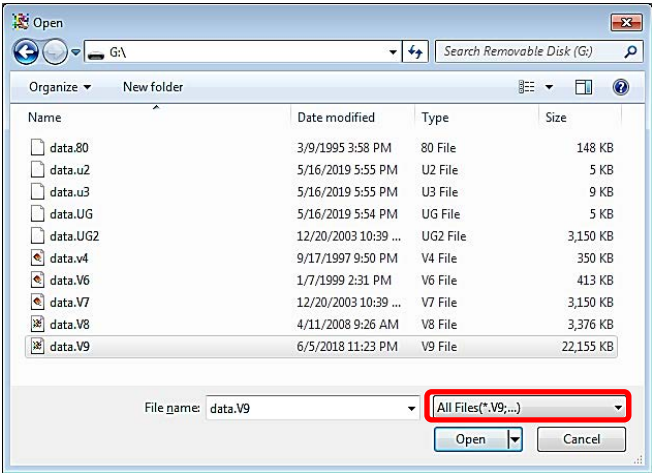	
	  * When converting .V9 program with [Convert as V8 compatible and open], V8 compatible options in [General setting] are checked
	     to operate equivalent to V8.

Others (OS)	**25. V9 hardware version upgraded** [Outline] Due to the changes in some of V9's components, the hardware version of the V9 will upgrade to "f" (an alphabet following a 7-digit serial number). The V9 with hardware version "f" or later must use OS version 3.50 or later. * Downgrading the OS to the versions older than 3.50 is not supported.

V-SFT-6 Update information

V-SFT version	6.0.30.0
System program version	V9 : 1.800 TS : 2.270 V8(N) : 2.270
OS version	V9 : 3.40

	Description of Updates

Connection	1. Newly supported device: IDEC MICRO Smart (Ethernet TCP/IP) Model: V9/TS(i)/V8i(N) PLC Model: IDEC MICRO Smart (Ethernet TCP/IP)
Connection	2. Additional connectable device: IDEC MICRO Smart FC6A Model: V9/TS/V8(N) PLC Model: IDEC MICRO Smart

Connection	3. Additional connectable device: OMRON CJ2 Ethernet connection
	
	Model: V9/TS(i)/V8i(N)
	PLC Model: OMRON SYSMAC CS1/CJ1/CJ2 (Ethernet)
	                        SYSMAC CS1/CJ1/CJ2 (Ethernet Auto)
	                        SYSMAC CS1/CJ1/CJ2 DNA (Ethernet)

Connection	4. Extended function: OMRON NJ series (EtherNet/IP) Model: V9/TS(i)/V8i(N) PLC Model: OMRON NJ series (EtherNet/IP) Description: i) PLC8Way supported. ii) For 1:n connection, different tag tables can be specified for each station number.
Connection	5. Extended function: FUJI SPB (N mode) & FLEX-PC CPU - PLC ladder transfer function Model: TS/V8(N) PLC Model: FUJI SPB (N mode) & FLEX-PC CPU

Function	6. Logging (Trend): Scaling display
	
	Model: V9 series
	
	[Outline]
	Trend can be scaled by reducing in both X and Y direction (1/2x > 1/4x > 1/8x) and enlarging in Y direction (2x > 4x > 8x)
	in addition to enlarging in X direction (2x > 4x > 8x).
	
	[Commands]
	- Scaling with buttons:
	  Zoom in (X direction)
	  Zoom out (X direction)
	  Zoom in (Y direction)
	  Zoom out (Y direction)
	  Reset display magnification
	- Scaling with PLC values (0: equal, 1: 2x, 2: 4x, 3: 8x, 4: 1/2x, 5: 1/4x, 6: 1/8x)
	  X direction memory device
	  Y direction memory device
	
	Display at the same magnification X direction: 1/8x Y direction: 1/2x

Function	7. $u registers expanded from 32K words to 64K words Model: V9 series [Outline] $u registers have been increased up to $u65535.

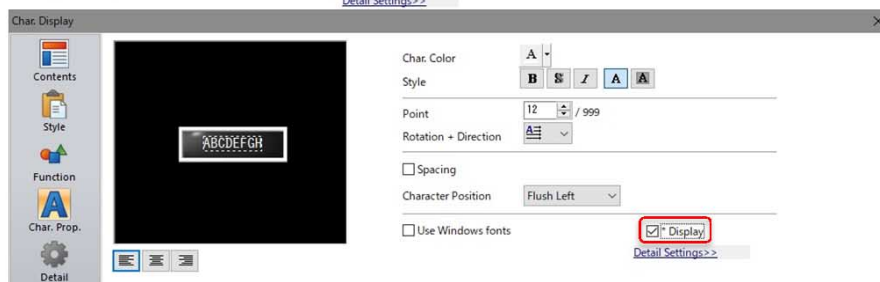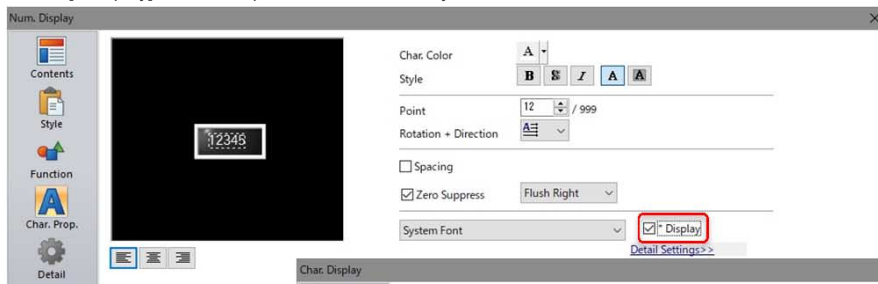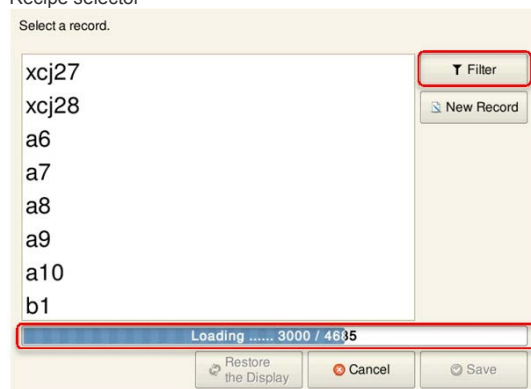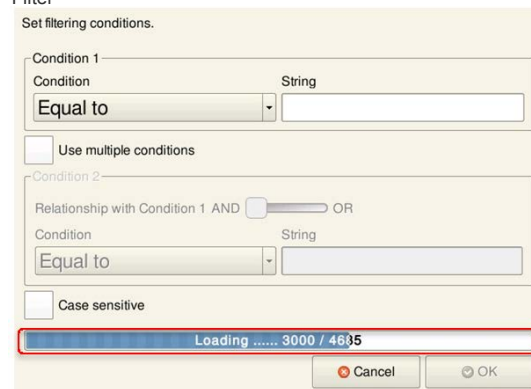|	
Function	**8. Numerals & Character display: Values appear as asterisks on a screen** Model: V9/TS/V8(N) **[Outline]** Values appear as asterisk on a screen. Check [* Display] to create a password screen easily.
Function	**9. Recipe: Progress bar in a recipe selector** Model: V9 series **[Outline]** A progress bar appears on the recipe selector (it pops up by the switch function of recipe data load/recipe data save/recipe data delete) and the filter (it pops up when [Filter] button is pressed on the recipe selector). It is effective to visually grasp the progress of loading process especially when there is large amount of recipe data. The progress bar disappears when reading is completed.
Function	**10. Switch: Storage viewer function** Model: V9 series **[Outline]** Storage viewer display feature was added to the switch functions to call the storage viewer. Even when [SYSTEM] button is disabled, the storage viewer is available.
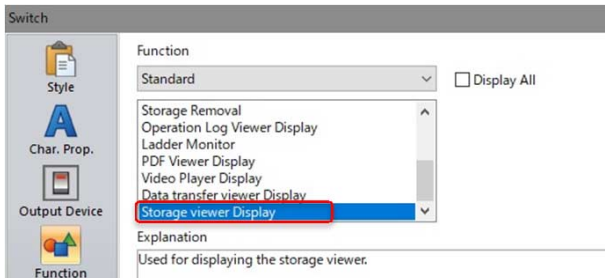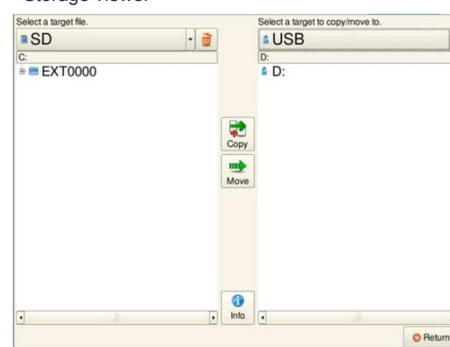
11. OMRON NJ/Allen-Bradley PLC: Additional tag import feature

[Outline]
[Add] button has been added to Tag import function.   e.g.) OMRON NJ series (EtherNet/IP)
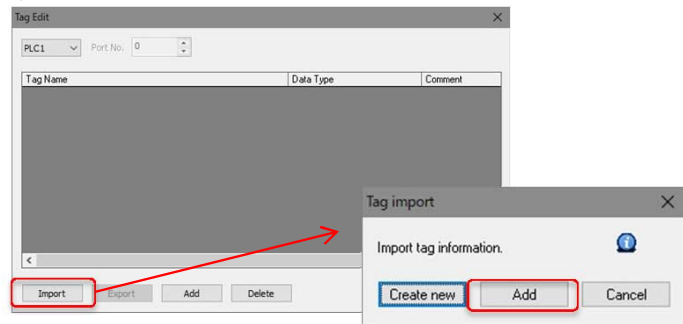
[Applicable PLC types]
OMRON NJ series (EtherNet/IP)
Allen-Bradley ControlLogix/CompactLogix
Allen-Bradley ControlLogix (Ethernet)
Allen-Bradley Micro800 Controllers
Allen-Bradley Micro800 Controllers (Ethernet TCP/IP)

Editor

Create new:
   Registered tag information will be cleared and new tag information is generated from the data you are going to import.
Add：
   Tag data you are going to import is appended to the existing tag information. If the tag has the same name as the existing one,
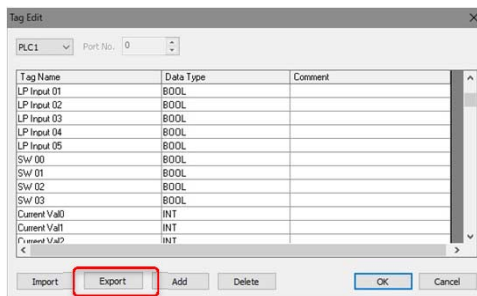   it will not be imported.

12. OMRON NJ PLC: Tag export feature

[Outline]
Export feature is supported.

[Applicable PLC type]
OMRON NJ series (EtherNet/IP)

Editor

13. Recipe: Recipe List display

Model: V9 series

[Outline]
Registered recipes can be viewed in a list.
[System Setting] > [Recipe] > [Recipe List]

Editor

	Comment	Transfer Data	File Type	Number of Data	Occupied Words	RECxxxx.CSV/BIN
0	RCP_000	Record-based transfer	CSV	4	19	0
1	RCP_001	Record-based transfer	CSV	4	19	0

14. Operation log: Device notation of item comments

[Outline]
Item comments used in the operation log can be converted to the device notation.

[Requirements]
In [System Setting] > [Other] > [Operation Log Setting], [switch] and/or [Data display update] must be checked in log objects box.

[Applicable items]
- Switch: [Output Device] > [Output Setting] is set and [Detail] > [Save an operation log] is checked.
- Numerical display:
 [Function] > [Entry Target] and [Detail] > [Save an operation log] is checked.

[How to convert item comments]
[Tool] > [Other] > [Convert item comment to device notation]

Operation log viewer

	Date / Time	Action	Function	Comment	Value (Before)
1	2018/10/22 08:53	Switch Action	LangChg		
2	2018/10/22 08:54	Switch Action	Multi-Overlap Display		
3	2018/10/22 08:54	DataChg	Numerical Data	W0064	520
4	2018/10/22 08:54	Bit Mom		M00000	

e.g.) Numerical display

Before → After

Editor
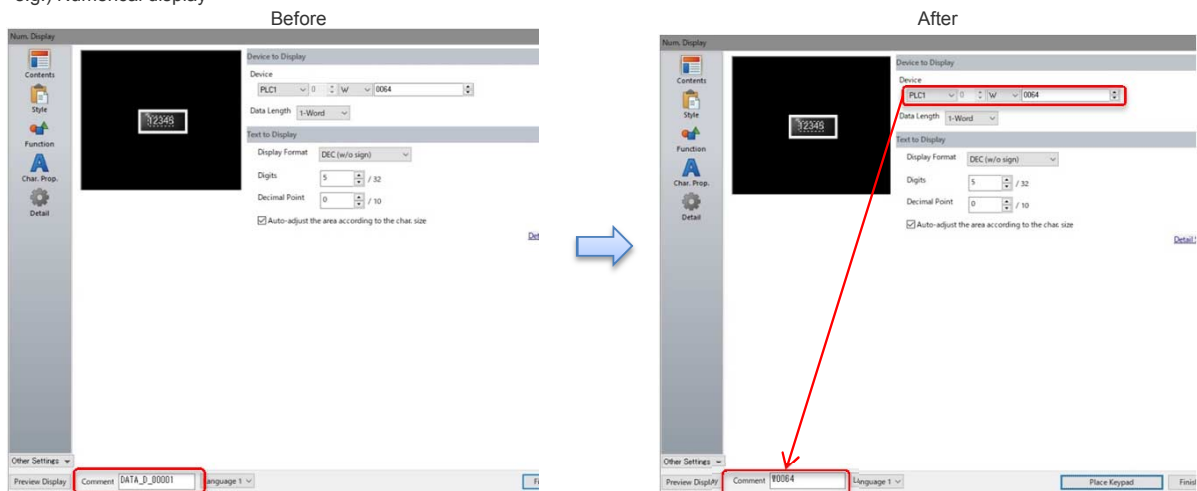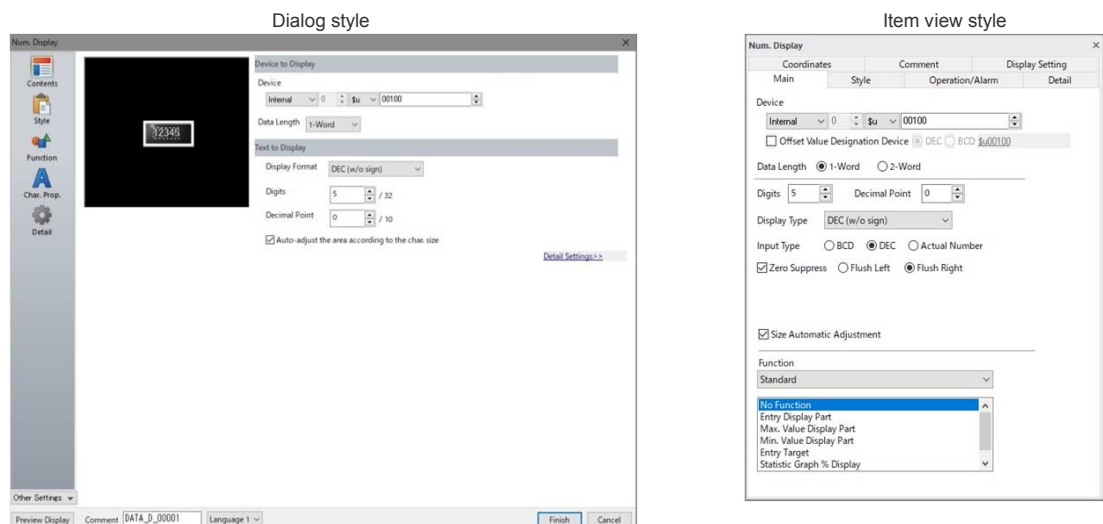
15. Dialog/view display switchover of the items

[Outline]
Item dialog can be switched to the conventional item view display. You can achieve Ver.5-like appearance and usability with V-SFT-6.

[Requirements]
[File] > [Property] > [General] >[Parts Setting] and check [Ver5 style (Item View)].

Dialog style   Item view style

Editor

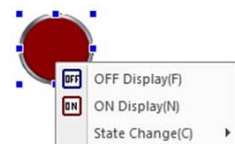## 16. Switch/lamp: individual switchover of ON/OFF status

[Outline]
You can change ON/OFF status (P3 to P128) of selected switch or lamp individually by clicking it.

[Requirements]
[File] > [Property] > [General] and check [Allow individual switching of switch/lamp display status].

Editor

Editor	17. Multi-language edit: Show and jump to the location of use

[Outline]
On the Multi-language edit sheet, you can see where it is in use by moving the cursor over the text in the language 1. Also you can jump to the location of use by double-clicking the text.
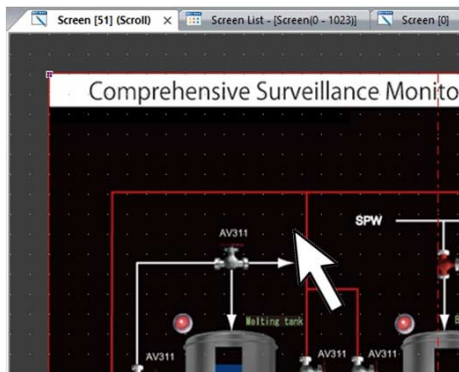

By double-clicking the text, you can jump to Message edit No. 10 to display the original text.

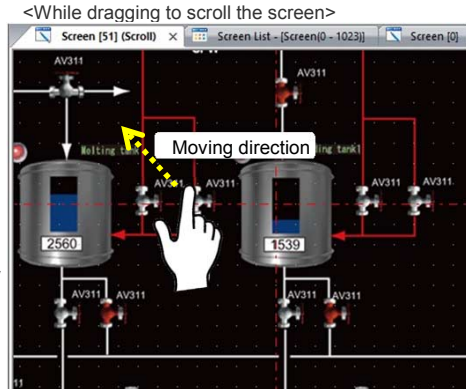| Editor	18. Screen display: Ctrl + drag operation

[Outline]
You can grab and drag a screen like PDF file by dragging a mouse while holding down the Ctrl key.
The mouse cursor changes to the hand mark during Ctrl + drag operation.

<While dragging to scroll the screen>

Hold down Ctrl key and drag a mouse

Moving direction

Editor	19. Guideline display

[Outline]
Guidelines are displayed while moving or enlarging/reducing the items for easy positioning or controlling the size of the item.

[Requirements]
Right click menu > [Grid] > check [Guide Line]

   *You can change the color of the line from [Grid Setting] > [Grid color]

Guideline (e.g. Yellow)

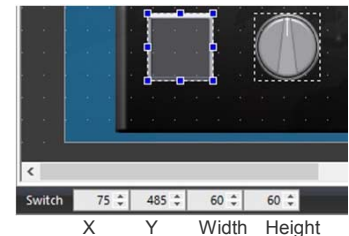| Editor	20. Status bar: Display and edit coordinates

[Outline]
You can display the coordinates and the size of an item on the status bar to edit directly.

[Requirements]
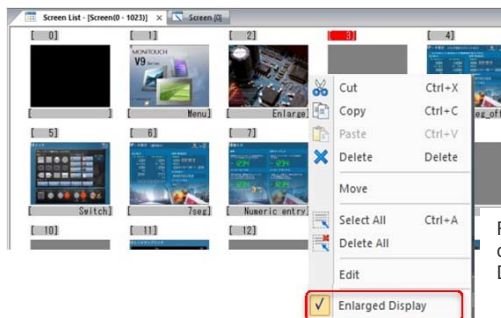[File] > [Property] > [General] and check [Show the coordinates and size of the selected item on Status Bar].

X   Y   Width   Height

Editor	21. Screen list: Enlarged display

[Outline]
You can enlarge the screen list. Enlarged list view shows 2 screens per line while normal list view shows 5 screens per line.

Right click and check [Enlarged Display].
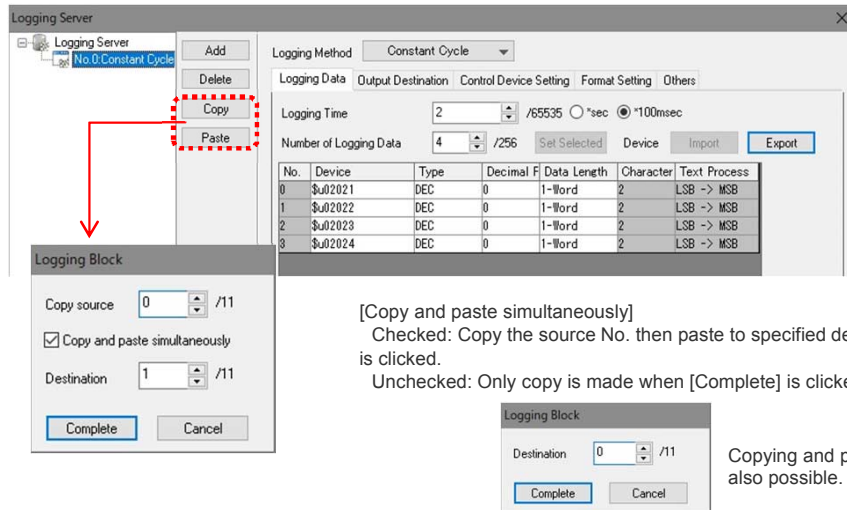
|	

	22. Logging/alarm servers and buffering area: copy & paste functions
	
	[Outline]
	You can copy and paste the settings in the logging server, alarm server or buffering area to other numbers or even another file.
	
	e.g.) How to copy the contents of the logging server No.0 to No.1
	
	[Copy and paste simultaneously]
	  Checked: Copy the source No. then paste to specified destination number when [Complete] is clicked.
	  Unchecked: Only copy is made when [Complete] is clicked.
	
	Copying and pasting to another file is also possible.

Editor	

	23. Switch: Cut/copy/paste of switch ON/OFF macro [Outline] You can copy, cut, or paste the switch ON/OFF macro without opening the macro window. * Available only when [File] > [Property] > [General] > [Ver6 Style] is selected.
Editor	
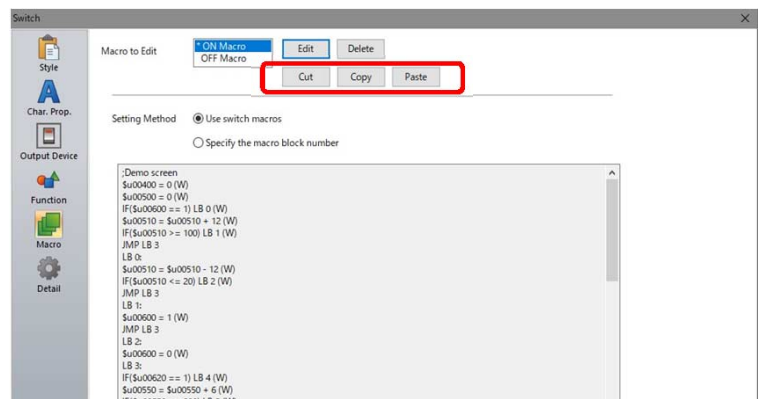
	24. Ribbon menu: Library icon added [Outline] [Library] icon which was previously in [Shape] is now on the ribbon menu.
Editor	

	25. Function item: showing icons on a screen [Outline] Icons are displayed on a screen when registering function items (sound/animation/macro mode/interval timer). These icons appear on the screen when the function item is registered.
Editor	
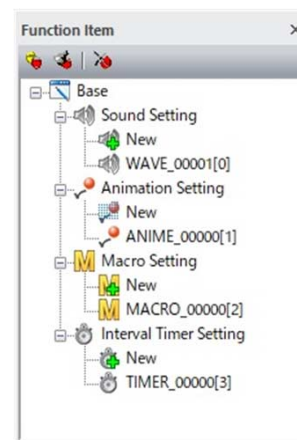
|	
Editor	**26. Project view: Memorizing its layout** [Outline] V-SFT-6 memorizes show/hide state of each item in the project view so that it keeps its layout next time when you start the application.
Editor	**27. Application menu: [Close] to shut down the screen program** [Outline] [Close] option in the application menu closes the screen program which you are currently editing. Application menu
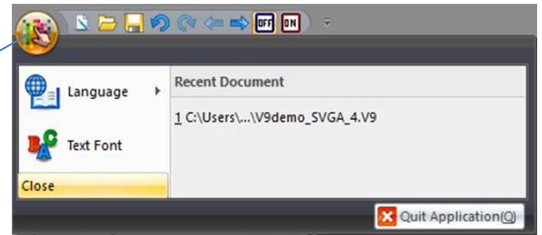
28. Improved tab-related interface

<Tab list>

[Outline]
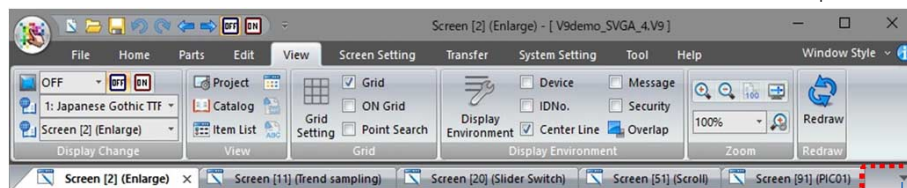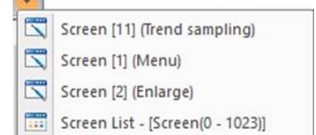[View] on the ribbon menu has a tab list to switch among the tabs which are currently opening in V-SFT-6.

<Scroll buttons for tabs>
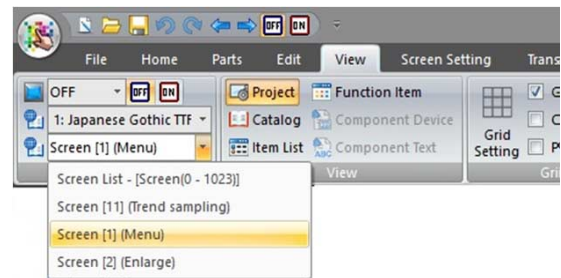
[Outline]
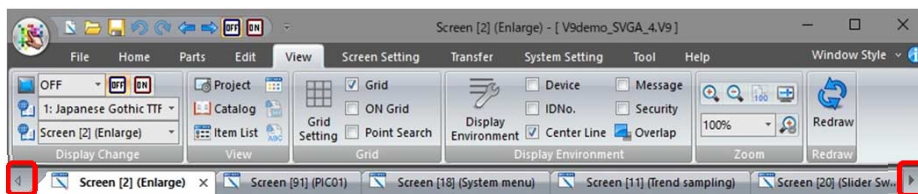Scroll buttons are available to show all the tabs when more tabs than that can fit in a window are open.

Right click the space on the tab bar or the [List] button.

When clicking [List] button:

[Left/right scroll] buttons appear to scroll to both directions.

<Close the screen program itself when all tabs are closed>

[Outline]
The screen program will close when all the tabs close in V-SFT-6.
Even you close all the screen tabs, the screen program will not close if any tab other than screen's is still open.

MONITOUCH

V-SFT-6 Update information

V-SFT version	6.0.29.0
System program version	V9 : 1.750 TS : 2.260 V8(N) : 2.260
OS version	V9 : 3.30

Contents

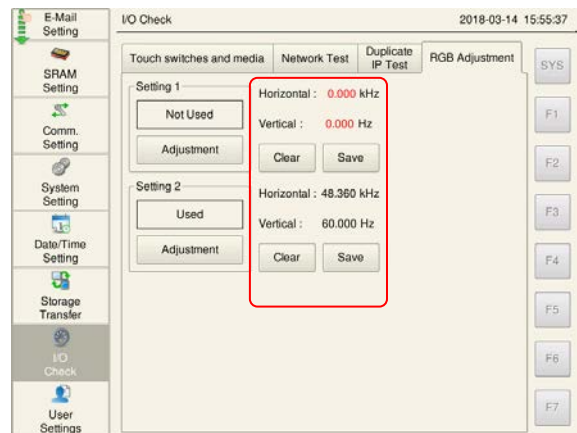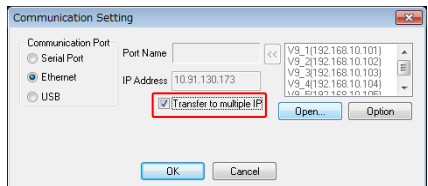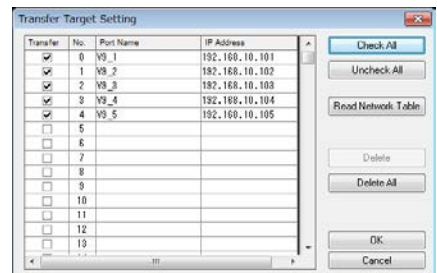|		
Connection	1.	**Extended specifications: IDEC - D register range expanded** Applicable models: V9, TS, V8(N) Device name:　　MICRO3 　　　　　　　　MICRO Smart 　　　　　　　　MICRO Smart pentra Address range:　D0 to D59999
Connection	2.	**Extended specifications: SAIA - DB register supported** Applicable models: V9, TS, V8(N) Device name:　　PCD 　　　　　　　　PCD S-BUS(Ethernet)
Editor	3.	**Edit model selection: TS1000 Smart series added** Applicable models: TS1070S(i), TS1100Si
Editor	4.	**Importing Tags from Siemens TIA Portal Ver. 14 / Ver. 15 supported** [Outline] Import of a TIA project file (*.ap14, *.ap15) created with Siemens software "TIA Portal (Ver. 14 / Ver. 15)" is supported.

MONITOUCH

Fe Fuji Electric
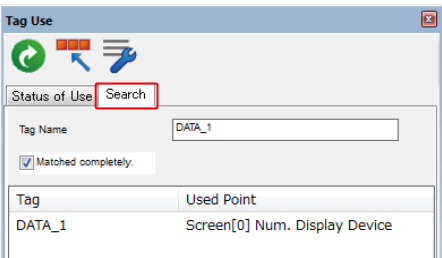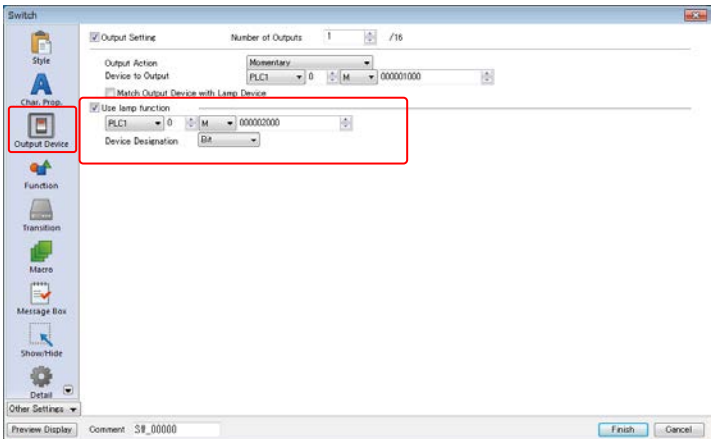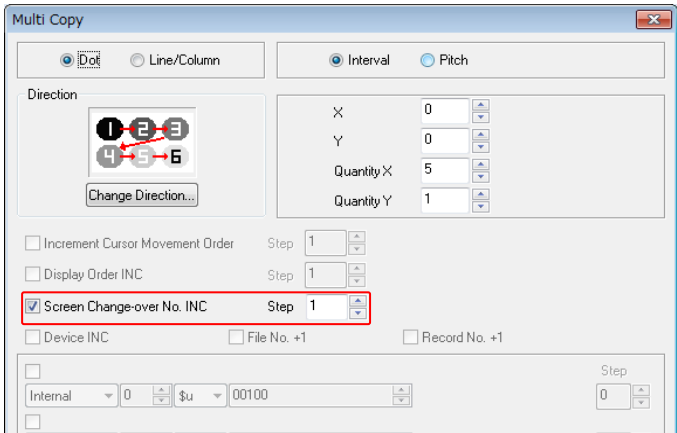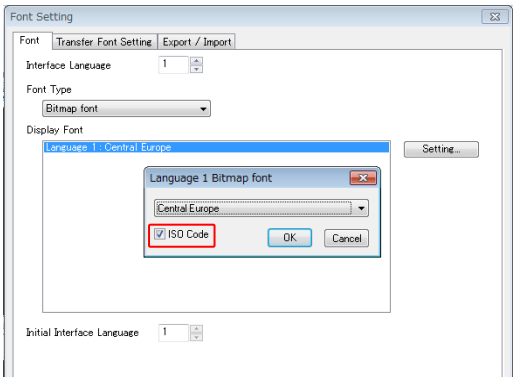
V-SFT-6 Update information

V-SFT version	6.0.28.0
System program version	V9 : 1.720 TS : 2.260 V8(N) : 2.260
OS version	V9 : 3.30

Contents

Function

1. Newly supported device: MITSUBISHI ELECTRIC MR-J2S-*CL

Applicable models: V9/TS/V8(N)
Device name: MITSUBISHI ELECTRIC MR-J2S-*CL

Function

2. Panasonic network camera: Additionally supported models

Applicable models: V9 series
Device name: BB-SW172A, BB-ST165A, BB-SP104W

Function

3. Local screen: Changes in the RGB adjustment screen

Applicable models: V9 series

[Outline]
Contents of the frequency display have been changed.

<Before (Sys prog: V1.600 or earlier)>
- Frequency is displayed only when V9 supports its range.
  Actual measured value from the connected device is not displayed.
- Frequency that V9 does not support is displayed as "0 kHz/0 Hz".
- Only the frequency from adjusted device is displayed.
 (It is hard to see whether the value comes from Setting 1 or 2.)

<After (Sys prog: V1.700 or later)>
- Actual measured frequency of the connected device is displayed.
- Frequency that V9 does not support is displayed in red.
- Values of the frequency for both setting 1 and 2 are displayed.

Editor

4. View menu: OFF/ON status switching buttons added

[Outline]
It is possible to simulate OFF/ON status of the buttons/lamps by these status switching buttons on the ribbon menu.

You can add OFF/ON status switching buttons by customizing the quick access tool bar.
 * If you install V-SFT-6 for the first time, these buttons are automatically added.

Editor

5. Screen program batch downloading (Ethernet)

[Outline]
You can download the screen program to multiple HMIs on a network in turn.
 *Make sure NOT to check [Set IP] check box in [System Setting] > [Ethernet Communication] > [Local port Address].
  Checking this option will set the same IP address to all the target HMIs.

[Transfer] > [Communication Setting]

[Transfer] > [Download] > [PC->]

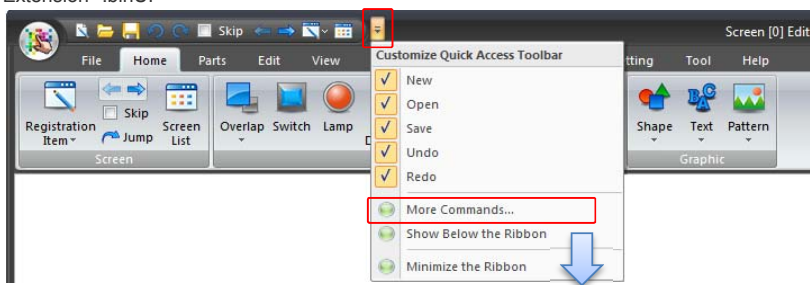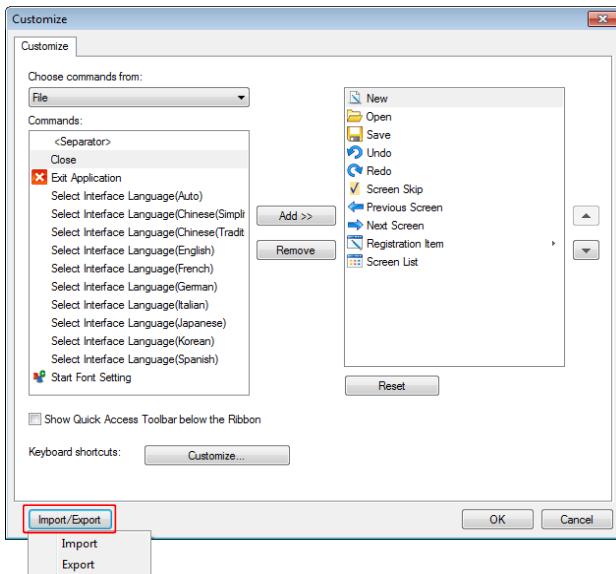|	
Editor	**6. Improvements in Connection Device Selection dialog box** [Outline] There are two improvements as follows: - [Maker] list in the Connection Device Selection dialog box starts with "Fuji Electric". - The device chosen last time is selected as default when creating a new screen program.
Editor	**7. Tag database: Search function added** [Outline] You can search tags from [Tool] > [Search] > [Tag Use].
Editor	**8. Switch: Lamp device setting added to Output Device menu** [Outline] Lamp device setting menu is available in the Output Device menu. "Use lamp function" is interlocked with the lamp device in the Style menu. *This option is not displayed when [Match Output Device with Lamp Device] option box is checked.
Editor	**9. Multi Copy: Additional copy option** [Outline] When a switch is set to [Function: Screen Change-over] and you are going to make multiple copies of it, you can increment screen number of each switch.
Function	**10. European bitmap fonts: ISO code supported (V8-compatible)** Applicable models: V9 series [Outline] The following European bitmap fonts support ISO codes. <Fonts that support ISO codes> - Central Europe - Cyrillic - Greek - Turkish

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V-SFT-6 Update information

V-SFT version	6.0.27.0		
System program version	V9 : 1.600	TS : 2.250	V8(N) : 2.220
OS version	V9 : 3.10		

		Contents
Function	1.	**Newly supported model: EtherCAT** Applicable models: V9 series * The corresponding communication unit [CUR-09] is required. Device name: EtherCAT
Function	2.	**Expansion of specifications for connected model: Pass through (Ladder transfer) function** Applicable models: V9 series Device name: Telemecanique TSX Micro
Function	3.	**Export / Import Quick Access Toolbar** [Outline] The customized Quick Access Toolbar can be exported and imported. Extension *.binUI
Function	4.	**V8 compatible function** Applicable models: V9 series The following V8 compatible function is supported. - Stroke font * Be sure to upgrade OS before using this font.

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V-SFT-6 Update information

V-SFT version	6.0.26.0
System program version	V9 : 1.550 TS2060 : 2.240 V8(N) : 2.220
OS version	V9 : 3.00

Contents	

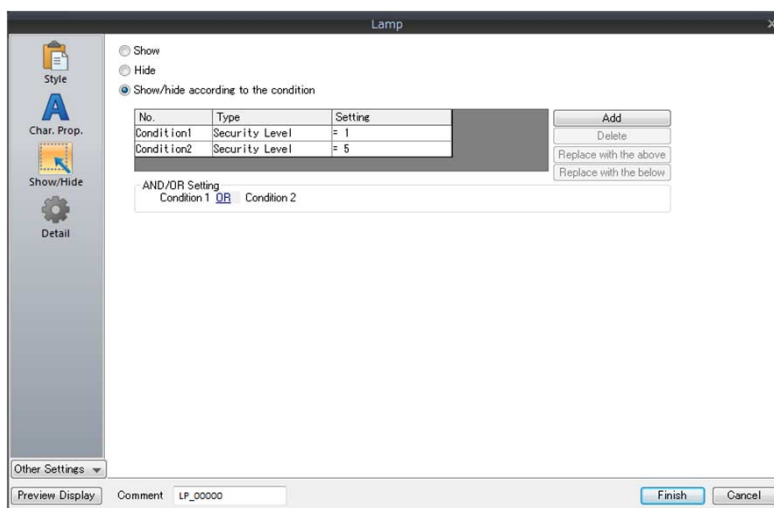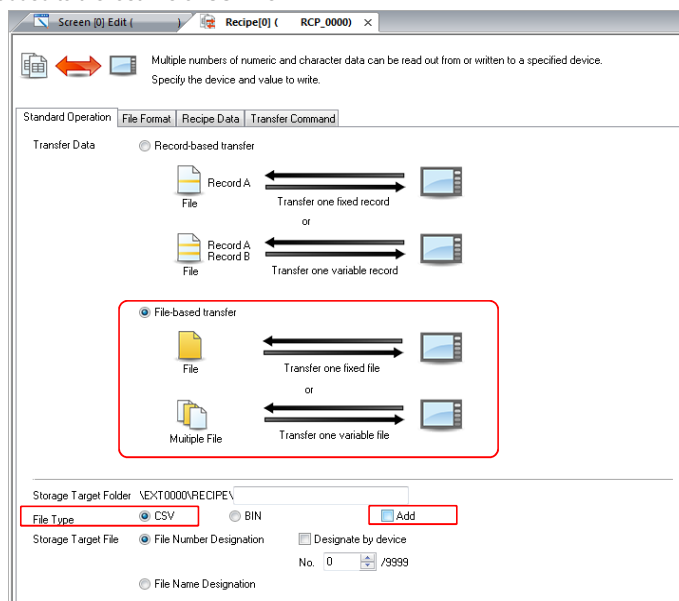|	
Function	**1.** **Extended security function** Applicable models: V9 series [Outline] It is possible to set "=" as security level conditions. In addition, maximum 5 conditions (either AND or OR) can be added. [Setting] - Security Level on Screen Setting - Security Level on each item - Security Level on Switch interlock [Setting example] In order to display by security level 1 or 5
Function	**2.** **Extended recipe function 1 - Add** Applicable models: V9 series [Outline] In the following conditions on recipe setting, "Add" operation is selectable. When transferring data from "PLC -> Unit", the data is added to the last line of CSV file. Maximum 32767 lines [Conditions] - Transfer Data: File-based transfer - File Type: CSV

	3.	**Extended recipe function 2 - $R**
Function		Applicable models: V9 series

3. Extended recipe function 2 - $R
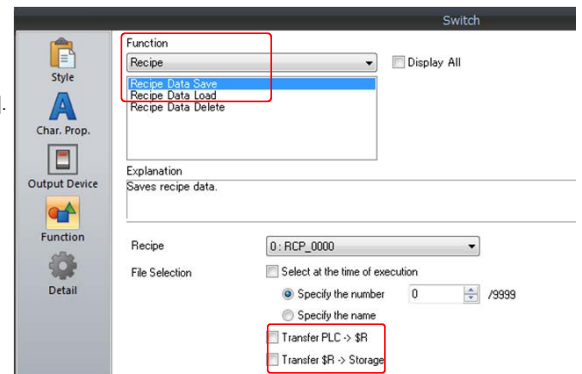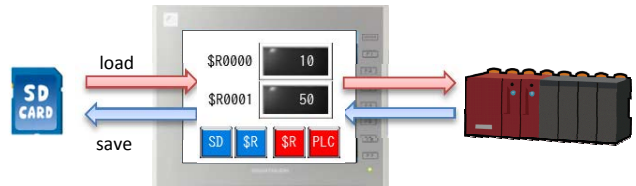
Applicable models: V9 series

[Outline]
$R, the internal devices specially for recipe data transfer,
is supported. 65536 words.
It enables you to check the value and modify
before transferring it by switch function.

[Setting]
1. Go to [System Setting] > [Recipe] to make recipe setting
2. Go to [System Setting] > [Unit Setting] > [General Setting] and
   select "Allow use of recipe temporary device memory $R".
3. Place a switch with [Recipe: Recipe Data Save / Recipe Data Load].
4. Select the transfer target.
5. Check a value on $R before transferring to storage / PLC device.

> $R is the common area for all screens.
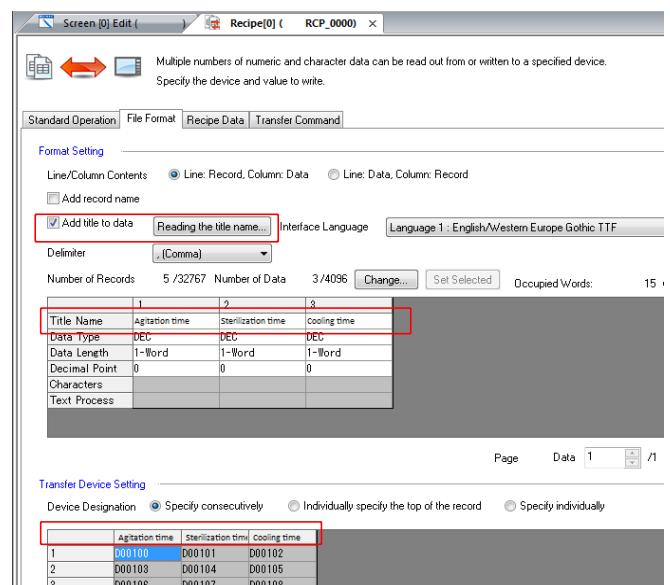> It will be reset by switching to Localmode or powering off.

4. Extended recipe function 3 - Edit titles

Applicable models: V9 series

It is now possible to add recipe titles on V-SFT
when "Add title to data" on [Recipe] > [File Format] is selected.
This is useful to create a new recipe file on V9 unit.

Besides, you can also import a CSV file where titles are
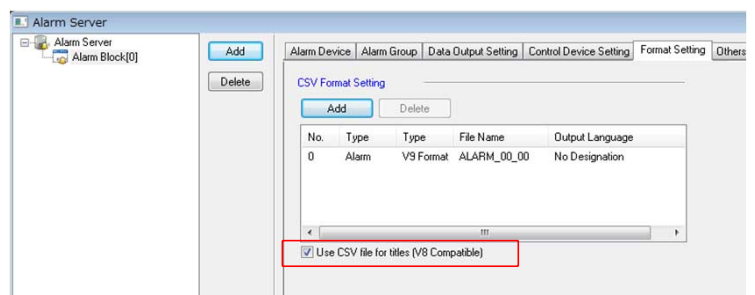already registered by "Reading the title name" option.

Editor

5. V8 compatible function

The following V8 compatible function is supported.

- In V8 compatible sampling functions,
  titles are added to each CSV file
  by using CSV file (SMHxxxx.csv).

> You must store SMHxxxx.csv file in
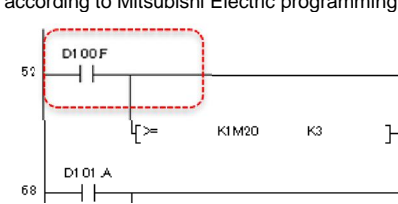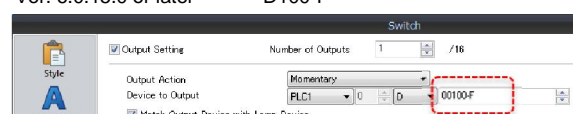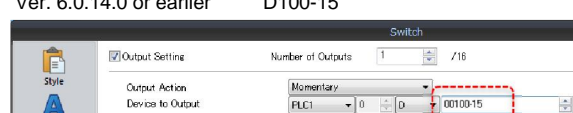> ALARM folder or LOGGING folder
> in storage.

Function

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V-SFT-6 Update information

V-SFT version	6.0.15.0	
System program version	V9 : 1.210	V8 : 2.150
OS version	V9 : 2.40	

Contents		
Connection	**1.**	Newly supported model: Keyence KZ24/300 CPU
		Applicable models: V9/V8 series Connected model: Keyence KZ24/300 CPU
Connection	**2.**	Newly supported model: Yaskawa Electric MP3000 series (Ethernet UDP/IP)
		Applicable models: V9/V8i series Connected model: Yaskawa Electric MP3000 series (Ethernet UDP/IP)
Connection	**3.**	Newly supported model: Fuji Electric FRENIC series (Loader)
		Applicable models: V9/V8 series Connected model: Fuji Electric FRENIC series (Loader)
Connection	**4.**	Expansion of specifications for connected model: Fuji Electric FRENIC series (Loader) Pass through (Ladder transfer) function
		Applicable models: V9/V8 series Connected model: Fuji Electric FRENIC series (Loader)
Connection	**5.**	Newly supported model: Fuji Electric FRNxC2x-xx
		Applicable models: V9/V8 series Connected model: Fuji Electric FRNxC2x-xx
Connection	**6.**	Newly supported model: A&D AD4402 (MODBUS RTU)
		Applicable models: V9/V8 series Connected model: A&D AD4402 (MODBUS RTU)
Connection	**7.**	Newly supported model: A&D AD4404 (MODBUS RTU)
		Applicable models: V9/V8 series Connected model: A&D AD4404 (MODBUS RTU)
Connection	**8.**	Expansion of specifications for connected model: Siemens S7-300/400MPI Pass through (Ladder transfer) function
		Applicable models: V9/V8 series Connected model: Siemens S7-300/400MPI　　*It is not possible to use pass through function via USB.
Connection	**9.**	Expansion of specifications for connected model: FATEK AUTOMATION FACON FB series Pass through (Ladder transfer) function
		Applicable models: V9/V8 series Connected model: FATEK AUTOMATION FACON FB series
Connection	**10.**	Expansion of specifications for connected model: Others General Purpose Ladder Transfer
		Applicable models: V9/V8 series Connected model: Others General Purpose Ladder Transfer　*It is selected on the communication with Baumuller PLC with ladder transfer function.
Software	**11.**	Change in the notation of devices of Mitsubishi Electric PLC　*Hexadecimal notation for bit device

11. Change in the notation of devices of Mitsubishi Electric PLC　*Hexadecimal notation for bit device

Applicable models: V9/V8 series
Connected model: All Mitsubishi Electric PLCs

[Outline]
In case that 1-word/2-word devices of Mitsubishi Electric PLC are designated as a bit memory on V-SFT, the part of bits is described as "0-F" according to Mitsubishi Electric programming software.

E.g. When bit 15 of D100 is designated.
Ver. 6.0.15.0 or later　　　D100-F

Ver. 6.0.14.0 or earlier　　D100-15

12. Compatible with Optional units for RGB/Video "GUR-00", "GUR-10", "GUR-11"

Applicable models: V910xiW, V9150iX, V9120iS, V9100iS, V9080iS

The above applicable models are compatible with the following optional units for RGB/Video.
· "GUR-00" Video input 4ch
· "GUR-10" Video input 2ch, RGB input 1ch
· "GUR-11" RGB input 2ch   *Compatible with system program Ver.1.210 or later, OS Ver.2.40 or later.

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13. Data Transfer Viewer

Applicable models: V9 series
Ports：LAN, LAN2, WLAN

[Outline]
It is possible to upload or download folders or files from V9 series (client) to the server on the network with the dedicated viewer.
It is possible to select folders or files and confirm latest condition at the same time. In addition, the execution result such as success or failure can be checked.
[The way to call]
· Switch function: Data transfer viewer call
· "Data transfer Viewer" switch in system menu
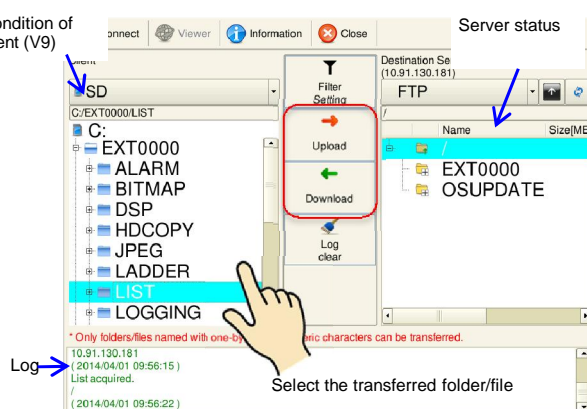· PLC command

[Operation]
Data Transfer Viewer can do the following things.

· It is possible to configure the settings for the server and connect it on the viewer directly.
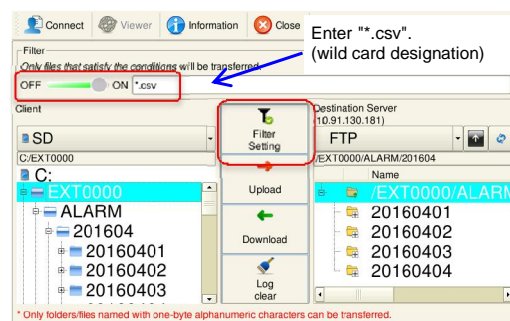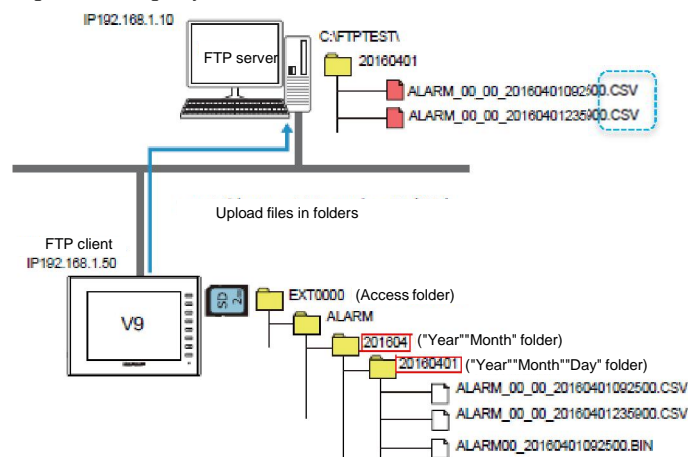
· It is possible to check current condition of client/server at a glance.
· It is possible to check the execution result anytime.
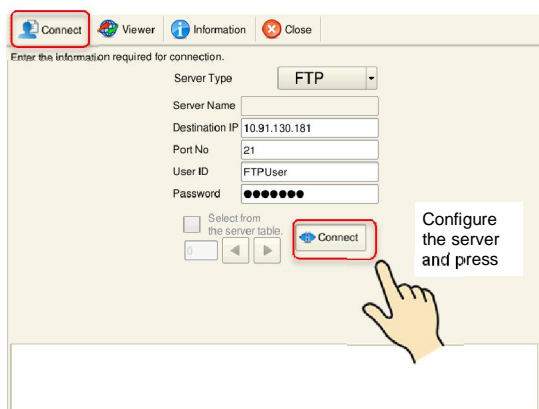
The condition of the client (V9)

Server status

Configure the server and press

Log

Select the transferred folder/file

· It is possible to filter the transferred files.
  E.g. Transferring only selected CSV files

IP192.168.1.10

FTP server

C:/FTPTEST\
20160401
ALARM_00_00_20160401092500.CSV
ALARM_00_00_20160401235900.CSV

Upload files in folders

FTP client
IP192.168.1.50

V9

EXT0000 (Access folder)
ALARM
201604 ("Year""Month" folder)
20160401 ("Year""Month""Day" folder)
ALARM_00_00_20160401092500.CSV
ALARM_00_00_20160401235900.CSV
ALARM00_20160401092500.BIN

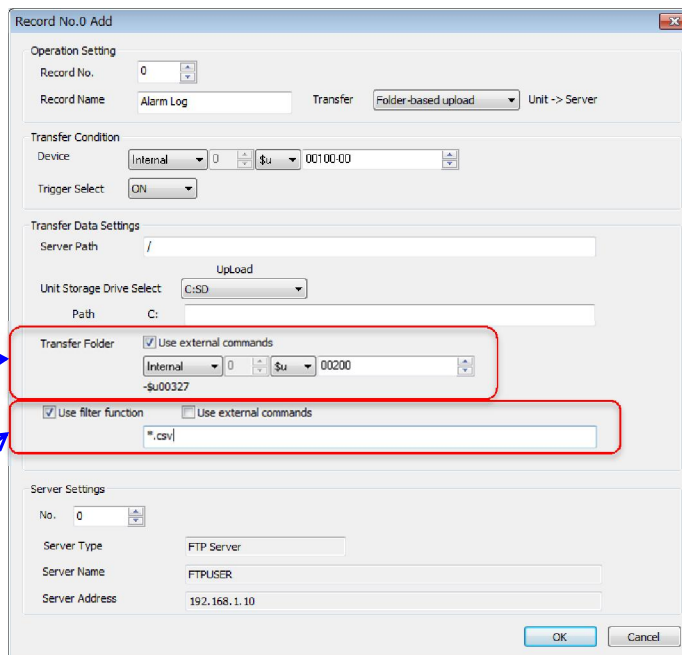Enter "*.csv".
(wild card designation)

For the details,
please contact Hakko Oversea Sales.

14. Data Transfer Service Device designation of folder/file names and filtering function

Applicable models: V9 series
　　　　　　Ports：LAN, LAN2, WLAN

[Outline]
It is possible to designate the transferred folders (files) by devices in data transfer service (in the case of transfer by PLC command).
It is possible to filter the data on transfer and designate the filter by devices.
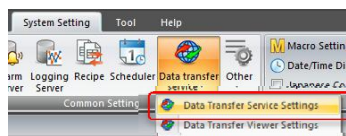
Function

It is possible to designate the transferred folders or files by devices.

It is possible to configure the settings for the filter and designate the filter by devices (only if "Folder-based download" or "Folder-based upload" is selected).

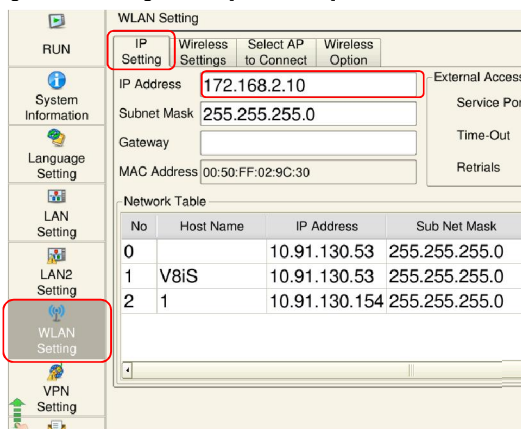*For the details, please refer to "V9 series reference 2".

15. DHCP server function

Applicable models: V9 series
Port:　　　　　WLAN

[Outline]
It is possible to use DHCP server function in WLAN of V9 series. If DHCP server is set in V9, each device can connect WLAN easily in their IP address set in DHCP when smart phones or tablets access the V9 using VNC server. This function contributes to preventing setting errors.

Function

E.g. WLAN setting screen [IP Address] 172.168.2.10
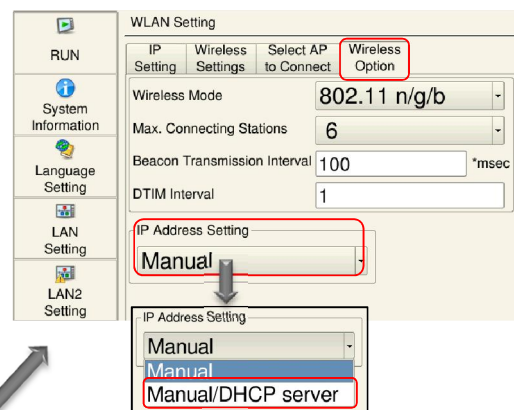
[Wireless Option] IP Address Setting: Manual/DHCP server

[Wireless Settings] Operation Mode: Access Point

IP address 172.168.2.11 - 172.168.2.20 (10 addresses) are usable in this case. When a tablet set in DHCP accesses the WLAN, a vacant IP address is allocated to the tablet.

Software	**16.** Compatible with Microsoft Windows 10 It is compatible with Microsoft Windows 10 32-bit version and 64-bit version.
Software	**17.** Screen program transfer via TCP/IP When screen programs are transferred via Ethernet, it is possible to transfer via TCP/IP. It is effective in transferring screen programs via Internet (VPN etc.). [Setting] [Transfer] tab > [Communication Setting] (Communication Port: Ethernet) > [Option] > Set "Comm. Protocol: TCP/IP". [Note] It is not possible to transfer system program ver. 1.180 or earlier (V-SFT ver. 6.0.14.0 or earlier) in the setting of "Comm. Protocol: TCP/IP".
Software	**18.** Tag: Siemens TIA Portal import function [Outline] It is possible to import project file made by Siemens TIA Portal (*.ap11, *.ap12, *.ap13) as tags. *It is not possible to import the tags where "Optimized Data Block" option is checked off on Siemens TIA Portal.
Function	**19.** V8 compatibility function It is compatible with the following V8 function. ·Alternative function for memory card function (recipe)
Function	**20.** TS107*/TS110*: Available in portrait orientation [Outline] It is possible to select [Portrait] on setting TS107*/TS110* on [Edit Model Selection] dialog. [Setting] [Edit Model Selection] dialog > Select [TS107*] or [TS110*] in [Edit Model] > Check [Portrait] > Select [Left rotation] or [Right rotation]

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V-SFT-6 Version up information

V-SFT version	6.0.14.0	
System program version	V9: 1.180	V8: 2.130
OS version	V9: 2.30	

Contents

Connection	**1.** Newly supported model: Yasukawa Electric MP3000 series EXPANSION MEMOBUS (Ethernet)	
	Compliant model: V9/V8i series Connected model: Yasukawa Electric MP3000 series EXPANSION MEMOBUS (Ethernet)	

Connection	**2.** Newly supported model: Lenze Servo Drive 9400 (Ethernet TCP/IP)
	Compliant model: V9/V8i series *Incorporated LAN port only (It is not supported communication unit "CUR-03", "CUN-03-3"/"CU-03-3") Connected model: Lenze Servo Drive 9400 (Ethernet TCP/IP)

Connection	**3.** Expansion of specifications for connected model: Siemens S7-200 PPI Pass through (Ladder transfer) function
	Compliant model: V9 series Connected model Siemens S7-200 PPI

Function	**4.** GD-80E/V609E Compatibility setting

Compliant model: V9100iC/V9080iC *Not compatible with the vertical placed one.

[Outline]
Replacing Monitouch GD-80E or V609E (Discontinued model, Resolution: 640*400 dots) with V9080iC or V9100iC (Resolution: 640*480 dots) makes the blank space of the bottom of the screen because of getting 80 dots larger in height of resolution. It is no need for modifying the layout in the screen by automatically centering the screen with this function. Local mode screen is also centered automatically.

[Setting]
The following dialog is displayed by opening the screen program of GD-80E or V609E on V-SFT and select "V910*iC" or "V908*iC" in [Edit Model Selection] dialog. Check [GD-80E/V609E compatible].
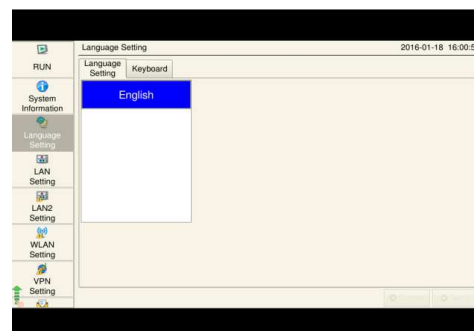

RUN mode   Local mode

Black 40 dots blank space at the top and bottom of the screen is made and the screen is

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V-SFT-6 Update information

V-SFT version	6.0.26.0
System program version	V9 : 1.550 TS2060 : 2.240 V8(N) : 2.220
OS version	V9 : 3.00

Contents

Function

1. Extended security function

Applicable models: V9 series

[Outline]
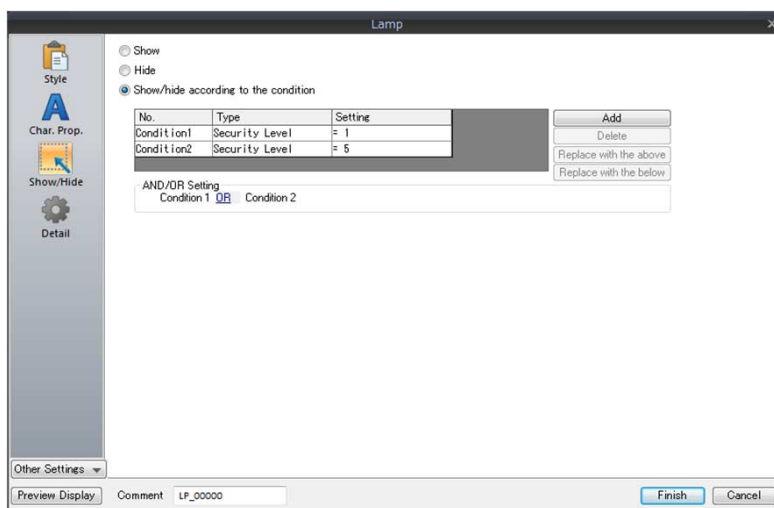It is possible to set "=" as security level conditions.
In addition, maximum 5 conditions (either AND or OR) can be added.

[Setting]
 - Security Level on Screen Setting
 - Security Level on each item
 - Security Level on Switch interlock

[Setting example]
In order to display by security level 1 or 5

Function

2. Extended recipe function 1 - Add
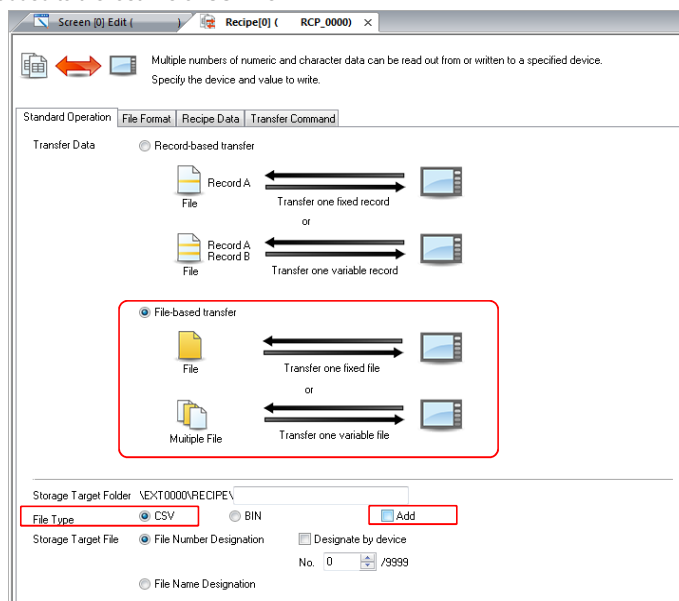
Applicable models: V9 series

[Outline]
In the following conditions on recipe setting, "Add" operation is selectable.
When transferring data from "PLC -> Unit", the data is added to the last line of CSV file.
Maximum 32767 lines

[Conditions]
 - Transfer Data: File-based transfer
 - File Type: CSV

Function	**3. Extended recipe function 2 - $R**	

3. Extended recipe function 2 - $R
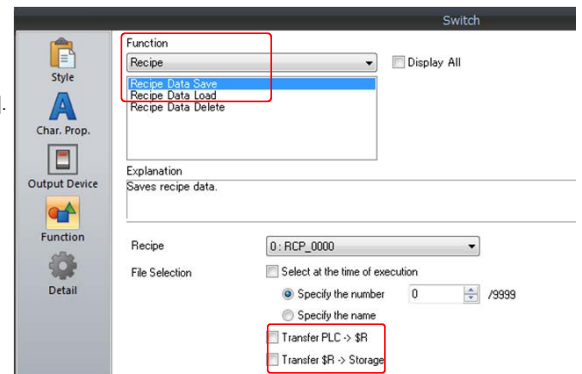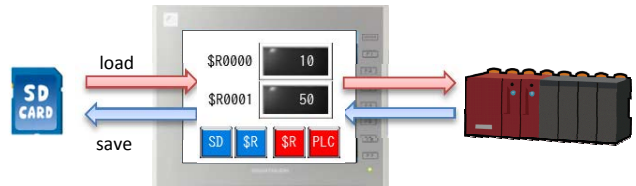
Applicable models: V9 series

[Outline]
$R, the internal devices specially for recipe data transfer, is supported. 65536 words.
It enables you to check the value and modify before transferring it by switch function.

[Setting]
1. Go to [System Setting] > [Recipe] to make recipe setting
2. Go to [System Setting] > [Unit Setting] > [General Setting] and select "Allow use of recipe temporary device memory $R".
3. Place a switch with [Recipe: Recipe Data Save / Recipe Data Load].
4. Select the transfer target.
5. Check a value on $R before transferring to storage / PLC device.

> $R is the common area for all screens.
> It will be reset by switching to Localmode or powering off.

4. Extended recipe function 3 - Edit titles

Applicable models: V9 series

It is now possible to add recipe titles on V-SFT when "Add title to data" on [Recipe] > [File Format] is selected. This is useful to create a new recipe file on V9 unit.

Besides, you can also import a CSV file where titles are already registered by "Reading the title name" option.

Editor

5. V8 compatible function

The following V8 compatible function is supported.

- In V8 compatible sampling functions, titles are added to each CSV file by using CSV file (SMHxxxx.csv).

> You must store SMHxxxx.csv file in ALARM folder or LOGGING folder in storage.

Function

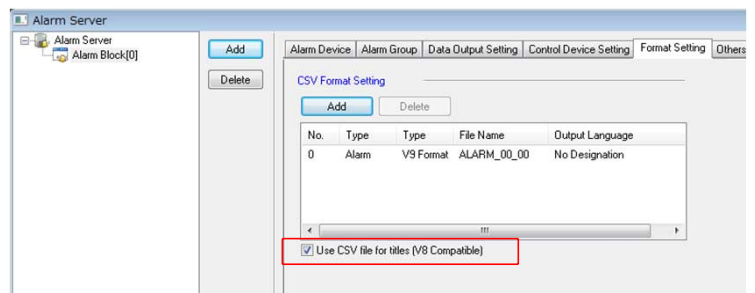|	
Function	**5.** DHCP client function Compliant model: V9 series Port: LAN, LAN2, WLAN *Any one of three ports [Outline] V9 series is compliant with DHCP client function. It is useful for setting functions used via Internet such as VPN and E-mail notification function, because V9 series is automatically assigned an IP address by getting the network information from DHCP server on the network. [Requirement] There is a DHCP server (a router and so on) on the network. [Setting] Local mode > [WLAN Setting] or [LAN Setting]
Function	**6.** Changing specifications for automatic correction of calendar Compliant model: V9 series [Outline] Automatic correction time at the time of using PLC calendar is changed to 1:23:45 AM from when the date is changed. Automatic correction is made once a day unless the date of calendar is changed.
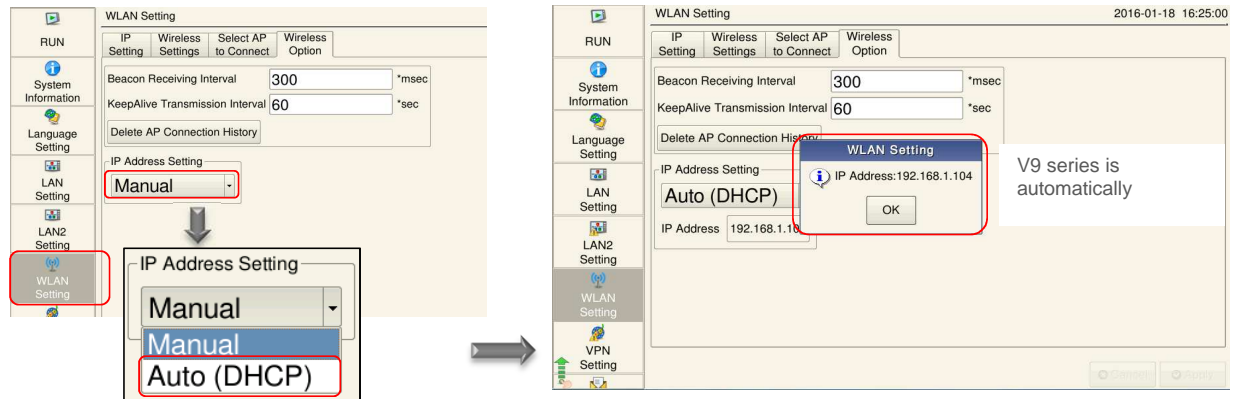
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V-SFT-6 Update Information

V-SFT version	6.0.12.0	
Sys PROG version	V9 : 1.130	V8 : 2.130
OS version	V9 : 2.10	

Description of Updates

Connection

1. Newly supported model: Mitsubishi FX5U/5UC series CPU
   Model: V9/V8 series
   PLC Model: Mitsubishi FX5U/5UC series CPU

2. Newly supported model: Mitsubishi FX5U/5UC series (Ethernet)
   Model: V9/V8i series
   PLC Model: Mitsubishi FX5U/5UC series (Ethernet)

3. Newly supported model: Mitsubishi FX3U/3GE series (Ethernet)
   Model: V9/V8i series
   PLC Model: Mitsubishi FX3U/3GE series (Ethernet)

4. Newly supported model: Mitsubishi L series CPU
   Model: V9/V8 series
   PLC Model: Mitsubishi L series CPU

5. Newly supported model: Keyence KV-7000 (Ethernet TCP/IP)
   Model: V9/V8i series
   PLC Model: Keyence KV-7000 (Ethernet TCP/IP)

6. Newly supported model: Fuji Electric PXF (MODBUS RTU)
   Model: V9/V8 series
   PLC Model: Fuji Electric PXF（MODBUS RTU）

7. Newly supported model: Yokogawa μR10000/20000 (Ethernet TCP/IP)
   Model: V8i series
   PLC Model: Yokogawa μR10000/20000 (Ethernet TCP/IP)   * Ver.6.0.11.0 supported for V9 series

8. Newly supported model: Azbil SDC15
   Model: V9/V8 series
   PLC Model: Azbil SDC15

9. Newly supported model: Azbil SDC25/26
   Model: V9/V8 series
   PLC Model: Azbil SDC25/26

10. Newly supported model: Azbil SDC45/46
    Model: V9/V8 series
    PLC Model: Azbil SDC45/46

11. Extended function: Mitsubishi MR-J3-*A List file in English added
    Model: V9/V8 series
    PLC Model: Mitsubishi MR-J3-*A
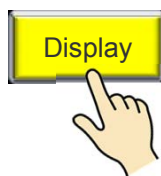
12. Animation Viewer ★ Upgrade OS
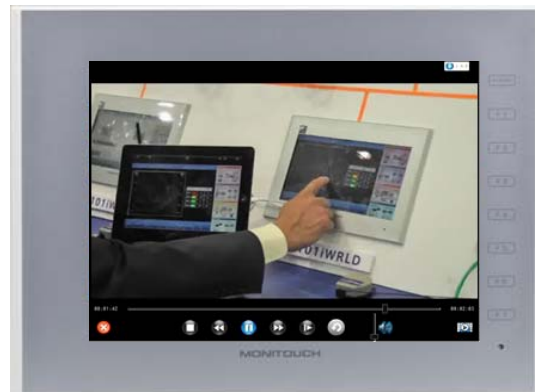
Supported model: V9 series

[Outline]
This is the function to play movie file stored in the storage of V9.
This function is useful for checking the operation method of V9 and solution for problems.
If you prepare movie files, one of the movies can be selected,
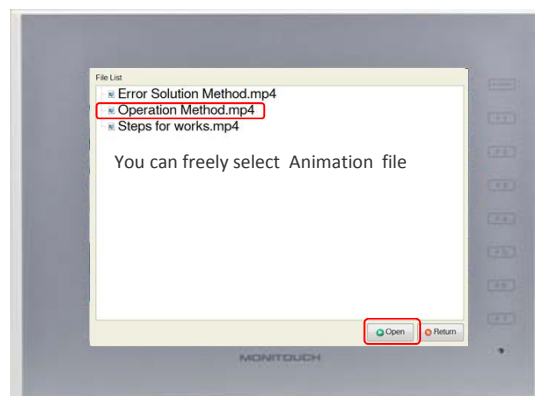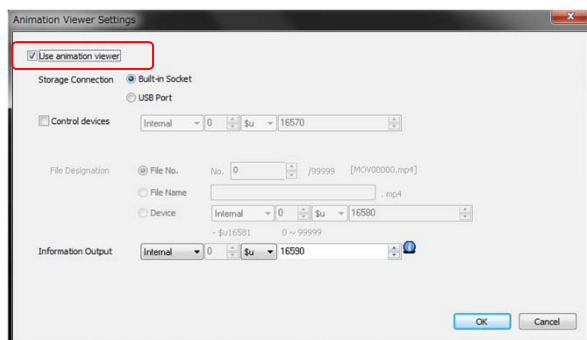and played by external device when alarm happnes.

Display

Display →

[Movie file Specification]
MPEG-4 file (Extension 「*.mp4」)

[Setting]
［System Setting］=>［Other］=>［Animation Viewer setting］
=>[Use Animation Viewer]

File List
- Error Solution Method.mp4
- Operation Method.mp4
- Steps for works.mp4

You can freely select Animation file

[Display method]
- Switch Function: Display Animation Viewer
- System menu [Animation Viewer] switch
- PLC Command

13. PDF Viewer function

Model: V9 series
Parts: Swtich

[Outline]
Display PDF Viewer from switch

[Setting]
Switch Dialog => [Function]]
=> [Function: PDF Viewer]

* [System Setting]=>[Other]=>[PDF Viewer setting]
=>[Use PDF Viewer]
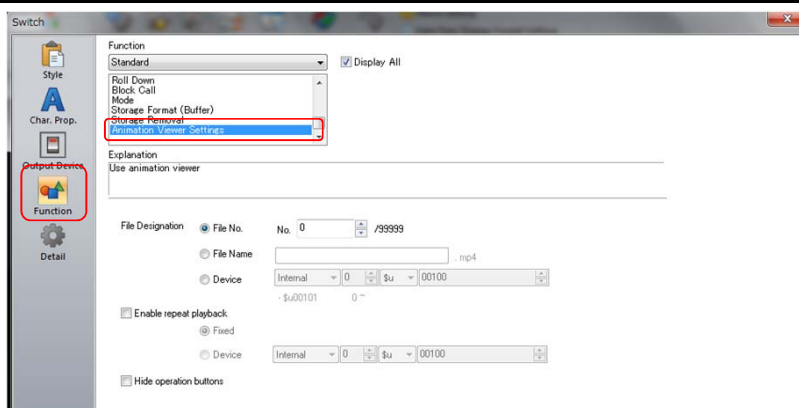
14. Ladder Transfer Function Flow Control supported (When Mitsubishi A series CPU is selected)

PLC Model: Mitsubishi A series CPU

[Outline]
When Mitsubishi A series CPU is selected to use Ladder transfer function,
please check the box of "Flow Control" on LadderComOp(Ladder Transfer Setting)

[Setting]
LadderComOp(Ladder Transfer setting)=>[flow control]

15. Display device address with zero suppress

Editor

[Outline]
Disply device address with zero suppress

[Setting]
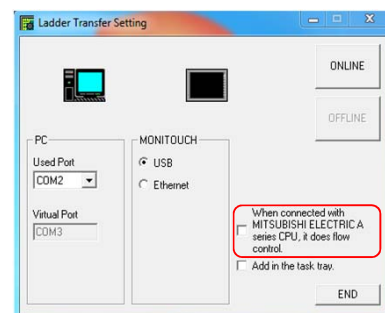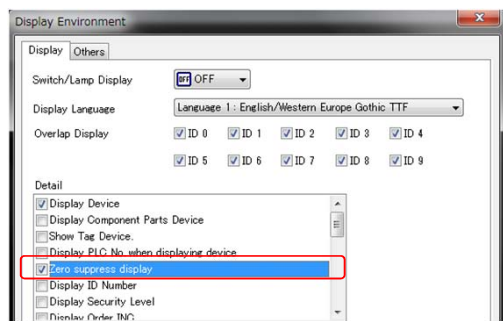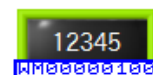[View]=>[Display Environment]=>[Zero suppress display]

Display Environment

Display | Others

Switch/Lamp Display ☐ OFF

Display Language Language 1 : English/Western Europe Gothic TTF

Overlap Display ☑ ID 0 ☑ ID 1 ☑ ID 2 ☑ ID 3 ☑ ID 4
☑ ID 5 ☑ ID 6 ☑ ID 7 ☑ ID 8 ☑ ID 9

Detail
☑ Display Device
☐ Display Component Parts Device
☐ Show Tag Device.
☐ Display PLC No. when displaying device
☑ Zero suppress display
☐ Display ID Number
☐ Display Security Level
☐ Display Order INC

With check   Without check

12345   12345
WM100   WM00000100
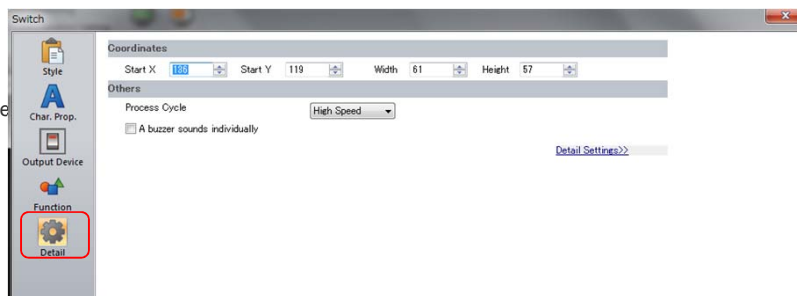
RUN   RUN
X2.1000   X2.000001000

*Only when you display device address on parts

16. Improve the dialog window

Editor

[Outline]
Always display [Detials] of Parts/Item dialog
It becomes easier to modify parts coordinates and size

Switch

Style
Char. Prop.
Output Device
Function
Detail

Coordinates
Start X 186 Start Y 119 Width 61 Height 57
Others
Process Cycle High Speed
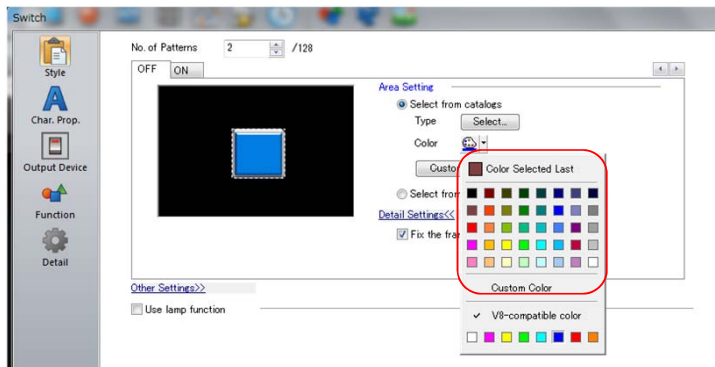☐ A buzzer sounds individually

Detail Settings>>

17. V8 Compatibility Function

Function

Supported for V8 Compatibility Function

- Real parts/3D parts Color
- Logging [System Setting] => [Logging Server] => [Others] => [Use Calculation Operation]
- Security function Login Screen
- Macro Command SMPL_BAK, SMPL_CSV, SMPL_CSV2, SMPLCSV_BAK, SMPLCSV_BAK2, SMPL_SAVE, SYS(SET_BUFNO), SYS (RESTART)

* You cannot open a screen data by the editor software with lower than Ver.6.0.11.0
  if the screen data has Real parts/3D parts which do not use V8 Compatibility Color.
  Please use Ver.6.0.12.0 if you see this error message "It is not possible to open this file
  because there is a function that is not able to use. Please upgrade this software"

Switch

Style
Char. Prop.
Output Device
Function
Detail

No. of Patterns 2 /128

OFF | ON

Area Setting
⦿ Select from catalogs
Type Select...
Color
Custom   Color Selected Last
○ Select from
Detail Settings<<
☑ Fix the fra

Custom Color

Other Settings>>
☐ Use lamp function

✓ V8-compatible color

Fe Fuji Electric

MONITOUCH
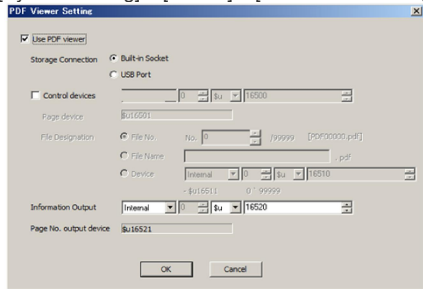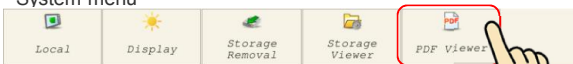
V-SFT-6 Update Information

V-SFT version	6.0.5.0	
SYS PROG version	V9 : 1.060	V8 : 2.080
OS version	V9 : 1.40	

Description of Updates

Connection

1. Newly supported model: Allen-Bradley   Micro800 Controllers
    Model: V9/V8 series
   PLC Model: Allen-Bradley: Micro800 Controllers

Connection

2. Newly supported model: Allen-Bradley Micro800 Controllers (Ethernet TCP/IP)
    Model: V9/V8i series
   PLC Model: Allen-Bradley :   Micro800 Controllers (Ethernet TCP/IP)

Connection

3. Newly supported model: Modbus slave (ASCII)
    Model: V9/V8 series
   PLC Model: Modbus slave (ASCII)

Connection

4. Newly supported model: Toshiba VF-S15
    Model: V9/V8 series
   PLC Model: Toshiba VF-S15

Connection

5. Newly supported model: Toshiba VF-MB1
    Model: V9/V8 series
   PLC Model: Toshiba VF-MB1

Connection

6. Newly supported model: Toshiba VF-nC3
    Model: V9/V8 series
   PLC Model: Toshiba VF-nC3

Connection

7. Extended function: Fuji ALPHA5 (MODBUS RTU) Baudrate setting
    Model: V9/V8 series
   PLC Model: Fuji ALPHA5 (MODBUS RTU)
    Baudrate: 57600/76800/115K BPS

Function

8. PDF viewer
    Model: V9 series

   [Outline]
    PDF files in a storage can be displayed on the V9. For example,
    manuals or error list of your machine will be good troubleshooting tools.
    Bookmark and search is also available.

   [Settings]
   [System Setting] > [Others] > [PDF Viewer Setting]

System menu

PDF viewer

   [How to display on the viewer]
    - PDF Viewer button on the System menu.
    - External command from PLC.

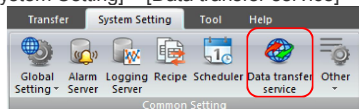## 9. Data transfer service

Model: V9 series

[Outline]
It is possible to access to the server on the network from a V9 as a client.
It is possible to upload files or folders in a storage of the client as well as download files or folders in the server to the client.
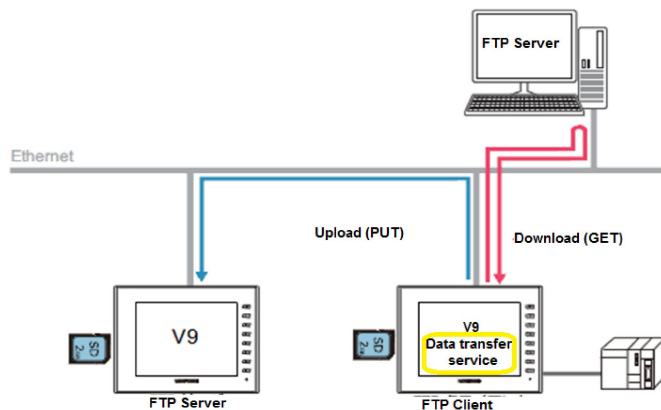
[Settings]
[System Setting] > [Data transfer service]

[Operation]
ON/OFF of a trigger bit

---

10. String table

Model: V9 series
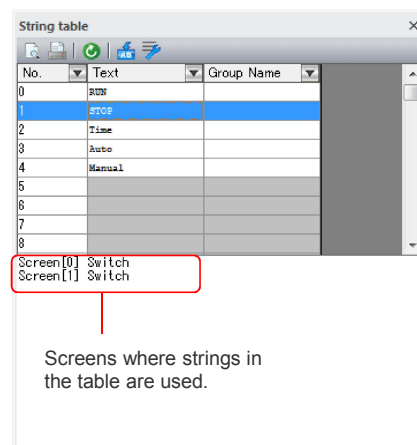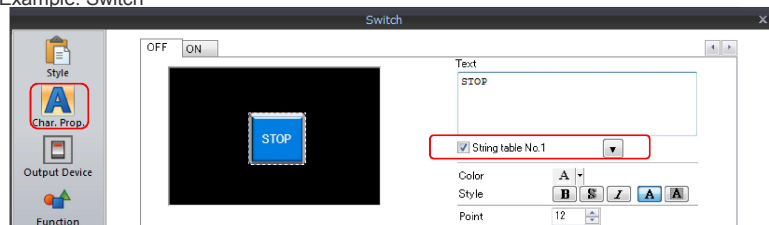Parts: Switch/lamp/text/multi text

[Outline]
Strings registered in the table can be called on a switch, lamp, etc.
Strings that are frequently used can be consolidated.

[How to register strings]
[Home] > [Registration Item] > [String Table]

Example: Switch

Screens where strings in the table are used.

---

11. PLC ladder monitor function and I/O monitor function

Model: V9 series

PLC Model: Mitsubishi   QnA series link, QnA series (Ethernet)
                           QnH (Q) series link, QnH (Q) series link (multi CPU)
                           QnH (Q) series CPU, QnH (Q) series CPU (multi CPU)
                           QnU series CPU, QnU series (built-in Ethernet)
                           QnH (Q) series (Ethernet), QnH (Q) series (multi CPU) (Ethernet)
                           QnH (Q) series (Ethernet ASCII), QnH (Q) series (multi CPU) (Ethernet ASCII)
           Omron   SYSMAC CS1/CJ1, SYSMAC CS1/CJ1 (Ethernet), SYSMAC CS1/CJ1 (Ethernet Auto)
           Yokogawa FA-M3, FA-M3R, FA-M3V
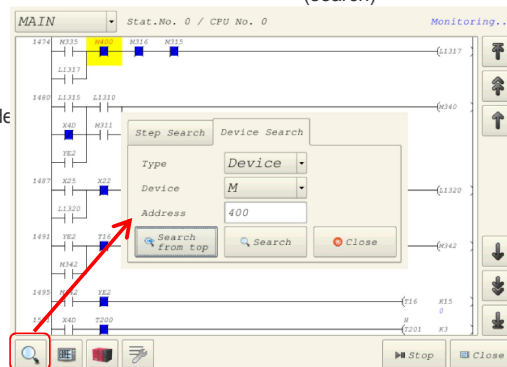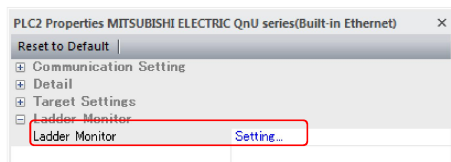
Ladder monitor screen (search)

[Outline]
It is possible to show the PLC ladder program on the V9.
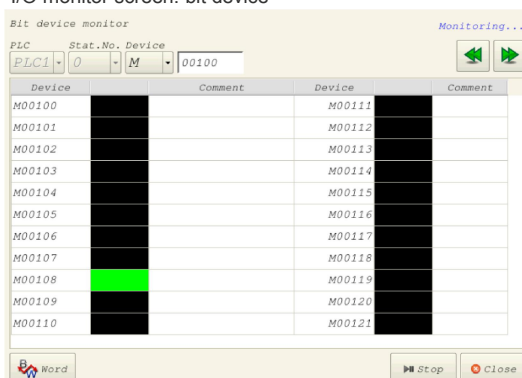I/O monitor screen shows values or status of bits.
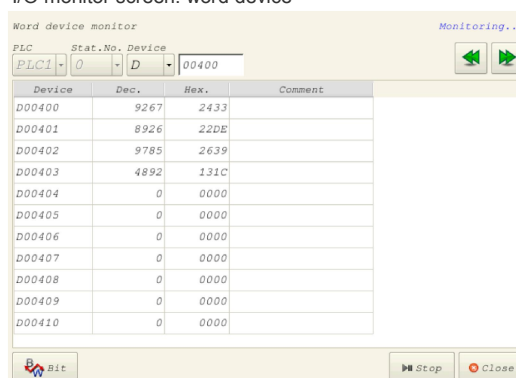Also you can upload the program from the PLC. (*available with some PLC mode

[Settings]
[System Setting] > [Hardware Setting] > [PLC Properties] > [Ladder Monitor]

I/O monitor screen: bit device

ON: Green
OFF: Black

I/O monitor screen: word device

12. KeepAlive function
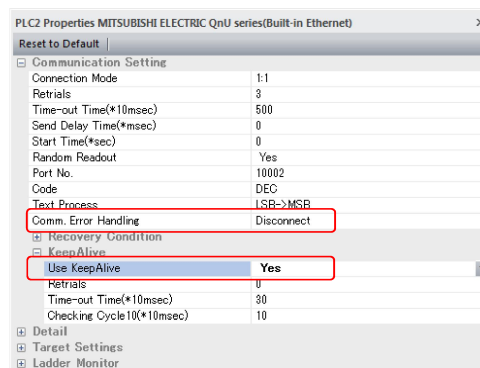
Model: V9 series (all)
PLC Model: All PLCs that support Ethernet connection

[Outline]
This is periodical connection check function to verify that communication between the device on the network is valid.
With this function you can reduce wait time from the occurrence of timeout until "disconnect" starts considerably as comm error is detected quickly.

[Settings]
[System Setting] > [Hardware Setting] > [PLC properties]
> [Comm. Error Handling: Disconnect]
> [Use KeepAlive: Yes]

PLC2 Properties MITSUBISHI ELECTRIC QnU series(Built-in Ethernet) ✕

Reset to Default

⊟ Communication Setting	
Connection Mode	1:1
Retrials	3
Time-out Time(*10msec)	500
Send Delay Time(*msec)	0
Start Time(*sec)	0
Random Readout	Yes
Port No.	10002
Code	DEC
Text Process	LSB->MSB
Comm. Error Handling	Disconnect
⊞ Recovery Condition	
⊟ KeepAlive	
Use KeepAlive	Yes
Retrials	0
Time-out Time(*10msec)	30
Checking Cycle10(*10msec)	10
⊞ Detail	
⊞ Target Settings	
⊞ Ladder Monitor	

13. Additional edit models

Model: V9150iX / V9120iS / V907xiW / V9060iT
V8 series (all), S8 series, TS series

New models of V9 series and V8 series, S8 series, and TS series were supported.

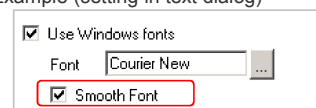## 14. Windows font (smooth display)

Model: V9 series

[Outline]
Edge of Windows font is smoothly displayed.

[Settings]
[Style] > [Use Windows Font] > Check [Smooth Font] box

Example (setting in text dialog)

☑ Use Windows fonts
Font Courier New ...
☑ Smooth Font

15. V8 compatible functions

Below functions which are compatible with V8 were are supported.

Printers (PR201, ESC/P, CBM292/293, MR-400)
Trend graph (background function)
Entry mode (direct method)

MONITOUCH

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V-SFT-6 update information

V-SFT Version	**6.0.2.0**
System Program Version	**V9: 1.030**
OS Version	**V9: 1.10**

Update information

1. Newly supported PLC: Fuji T-Link

<div style="margin-left:2em">

Model: All V9 Series + Communication Unit CUR-01
Connection Model: Fuji Electric: MICREX-SX (T-Link)
MICREX-F series T-Link
MICREX-F series T-Link V4 Compatible

</div>

(Addition)

2. Newly supported PLC: Fuji Electric SX bus

<div style="margin-left:2em">

Model: All V9 Series + Communication Unit CUR-06
Connection Model: Fuji Electric: MICREX-SX (SX bus)

</div>

(Addition)

3. Newly supported PLC: Modbus Slave(TCP/IP)

<div style="margin-left:2em">

Model: All V9 Series
Connection Model: Modbus Slave（TCP/IP）

</div>

(Addition)

4. Extended function for PLC: Ladder Transfer function

<div style="margin-left:2em">

Model: All V9 Series
Supported Model: MITSUBISHI: QnH (Q)series CPU
QnU series CPU
Q00J/00/01 CPU
QnH(Q)series CPU(multi CPU)
Q170MCPU(multi CPU)
Fxseries CPU
FX2N/1N series CPU
FX1S series CPU
FX3U/3UC/3G series CPU
Omron: SYSMAC C
SYSMAC CS1/CJ1
Panasonic: FP Series(RS232C/422)
FP7 Series(RS232C/422)
Yokogawa: FA-M3
FA-M3R
FA-M3V
Fuji Electric: SPB(N mode)&FLEX-PC CPU
MICREX-SX SPH/SPB/SPM/SPE CPU
Allen-Bradley: SLC500
SAMSUNG: SECNET
RS Automation: N7/NX Series(70/700/750/CCU)

</div>

[V-SFT Setting]　　e.g.) Ladder transfer via USB
[System setting] >> ［Hardware setting]
>> ［PLC1 Properties] >> [Ladder transfer port]

PC ［Start] >> [All programs] >> [V-SFTV6]
>> [LadderComOp] >> [Ladder Transfering setting]
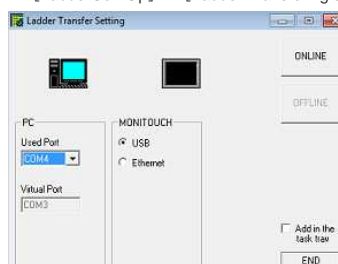
(Addition)

5. Extended function for PLC: Variable name cooperation for MICREX-SX

"Project file" can be used for variable name cooperation, in addition to "Portable file".

<div style="margin-left:2em">

Model: All V9 Series
Supported Model: Fuji Electric: MICREX-SX SPH/SPB/SPM/SPE CPU　IEC mode
MICREX-SX SPH/SPB/SPM/SPE series　IEC mode
MICREX-SX (Ethernet)　IEC mode
MICREX-SX (T-Link)　IEC mode
MICREX-SX (SX bus)　IEC mode

</div>

(Addition)

6. Web Machine Interface (VPN) supported

Function

V9 has bulit-in router function. Using V9, VPN connection without VPN router can be made with internet access.
Due to SSL-VPN, safe connection can be guranteed without worrying about evasdropping or data tampering.

Please visit our website for more information.
http://monitouch.fujielectric.com/

VPN=Virtual Private Network

---

7. Recipe Filter function for File/Record

Function

Model: All V9 Series
Object Item: Switch (Recipe function)

[Overview]
Display "Recipe selection menu"
by a switch (Recipe function),
selecting and sending a recipe file
can be executed.

[Setting]
Switch setting >> [Function]
>> [Function: Recipe]
>> Check a box for [Select at the time of excution]
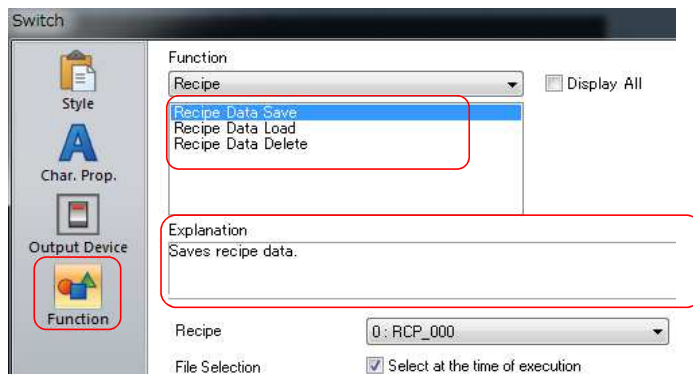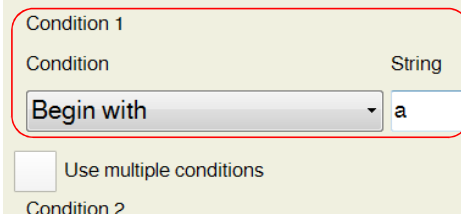

[V9 operation]

Press a switch
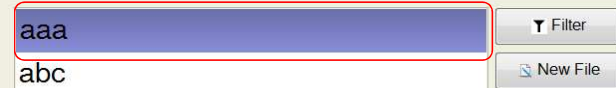

Select "aaa" on "Recipe selection menu", press [SAVE].

Dialog box for Filter function
is showed up.
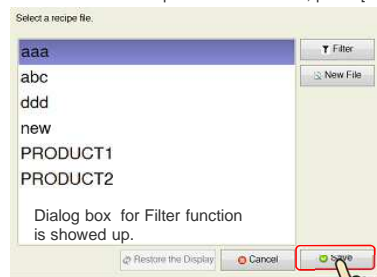
Search a recipe name by [Filter]

Set filtering conditions.

Please refer to [V9 Series Reference Manual 1]
for more information.

Select a recipe file.

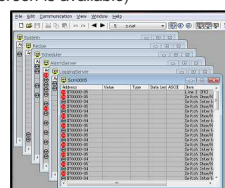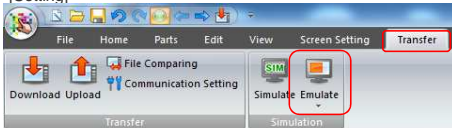
Files names starting with "a" show up .

---

8. Emulator

Editor

Operation check on PC is available.
"Emulator" for V9 and "Simulator" for PLC
can be run on PC for debugging.
V9's function switch or system menu can be also
operated on PC.

[Setting]

Function Switch
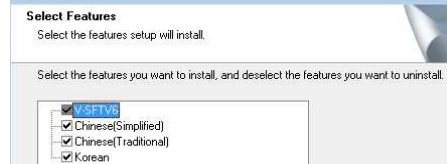
System menu
(System mene screen is available)

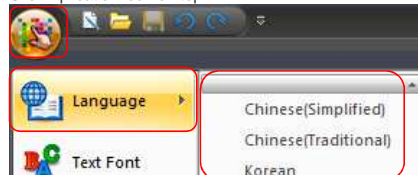## 9. Multi-Langauge with Chinese (Simplified, Traditional) & Korean * Non-Japanese OS

Editor

V-SFT Ver. 6 supports Chinese (Simplified, Traditional）and Korean.
Select your langauge on V-SFT installion

[Setting]
Click Aplication icon on top
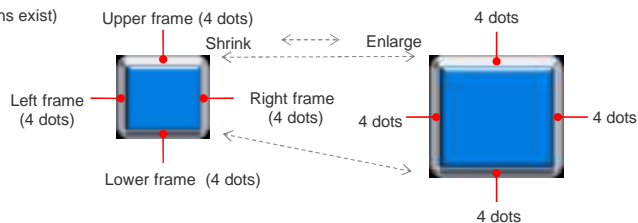

Under [File] on menu

After the langauge change,
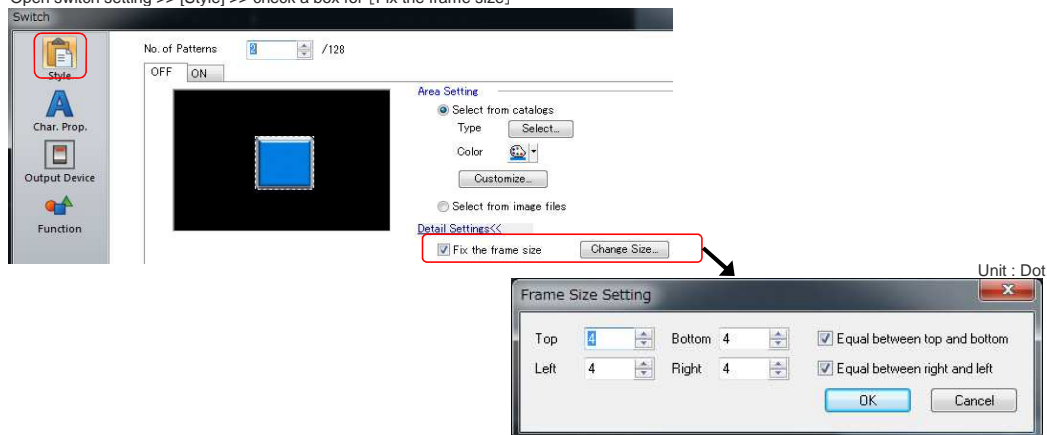V-SFT Ver 6 needs to be
re-started.

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10. Improvement of part design (Fixation of frame size)

Editor

Item: Switch, Lamp
Object Item: Square shaped Real, 3D parts with frame(exceptions exist)

[Overview]
The size of frame can be remained,
even a part is enlarged or shrinked.

Upper frame (4 dots)
Shrink ◁-----▷ Enlarge
Left frame (4 dots)
Right frame (4 dots)
Lower frame (4 dots)

4 dots
4 dots
4 dots
4 dots

[Setting]   e.g.) Switch
Open switch setting >> [Style] >> check a box for [Fix the frame size]

Frame Size Setting   Unit : Dot

Top 4   Bottom 4   ☑ Equal between top and bottom
Left 4   Right 4   ☑ Equal between right and left
OK   Cancel

* A batch change is available to make all part's frame size fixed on screen.
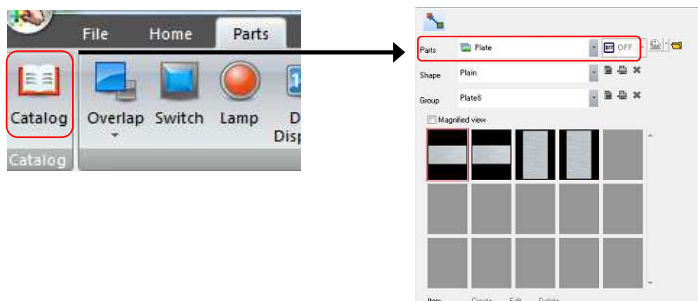
[Setting]
Go to [Tool] on menu >> [Fix 3D parts frame]
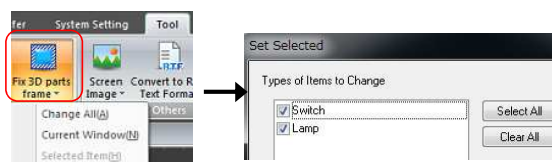
11. Parts Expansion

Editor

"Plate" part is newly added.
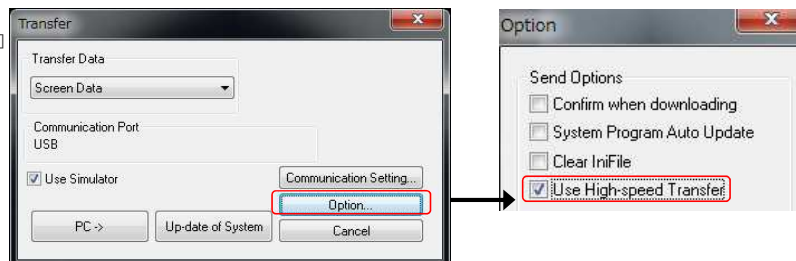This item can be used for background.

[Catalog]
[Parts] > [Catalog] > [Parts: Plate]

12. High-Speed Transfer

Editor

High-speed transfer is available by transfering only difference from the program inside a unit.

[Setting]
[Transfer] >> [Download] >> [Option]
>> Check [High-speed transfer]

13. Compatibility with V8 series

Function

V-SFT Ver.6 has the following compatibilities with V8 series.

- Speed increase for [Word operation: Add/Subtract] on switch function
- Asynchronous Display of Multiple Trend Graphs (Real time)
- Massage (TXT, BIN) storage into storage device

3 ページ