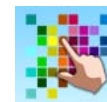


V-SFT Ver. 6.1.3.0 Update Information

	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

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

Applicable model: V9/X1
Device: MITSUBISHI ELECTRIC Q170 series (Multi CPU) (Ethernet)
- Additional connectable model: MITSUBISHI ELECTRIC Communication adapter FX3U-ENET-ADP

Applicable model: V9/TSi/V8i(N)/X1
Device: MITSUBISHI ELECTRIC FX3U/3GE series (Ethernet)
- 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)
- Additional connectable device: RFID controller (Stepless protocol)

Applicable model: V9/TSi/TS/V8i(N)/V8(N)/X1
Device: Other RFID controller (Stepless protocol)
- Additional connectable model: Printer OKI COREFIDO B432dnw

Applicable model: V9
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

*** Updating of the operation system is necessary.**

Function

1 Switch: Overlap dismissing function

Applicable model: V9/X1

<Overview>

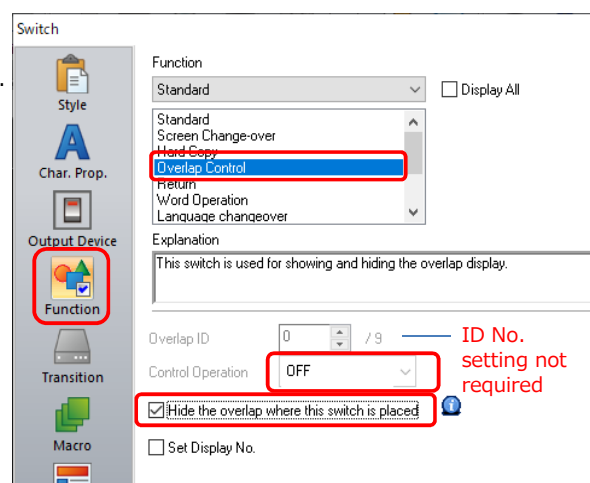
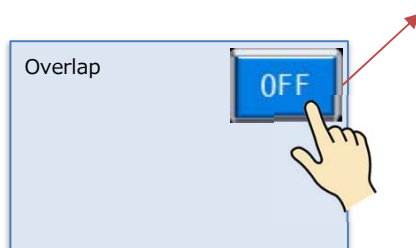
An overlap display can be dismissed without specifying the overlap ID number. Even if a different multi-overlap display ID number is registered on each screen, there is no need to consider the registration status.

<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>

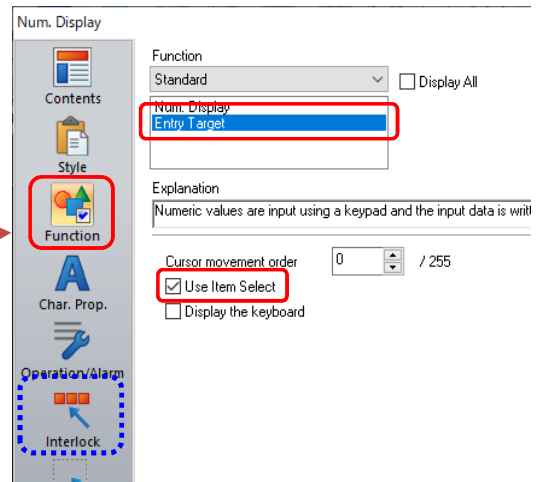
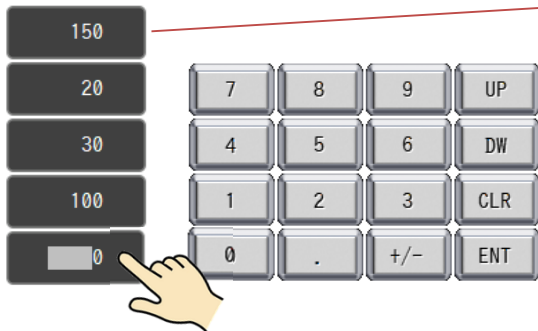
When a keypad and entry targets (numerical data display or character display) are placed on a screen, the cursor can be moved by tapping an entry target.

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

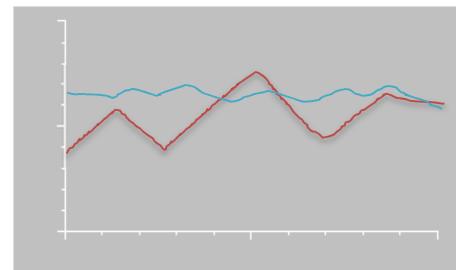
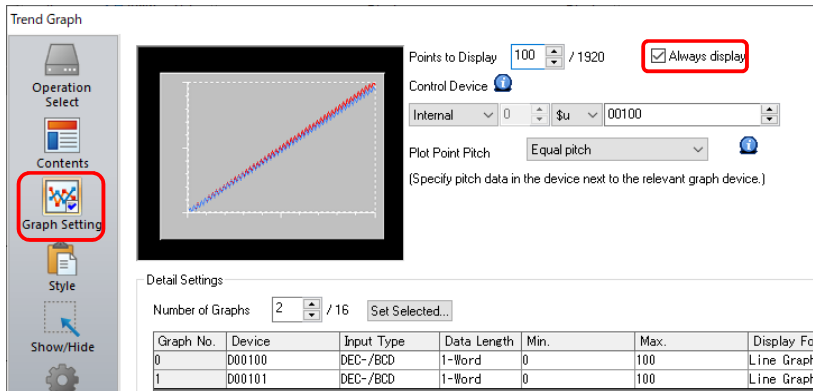
<Overview>

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

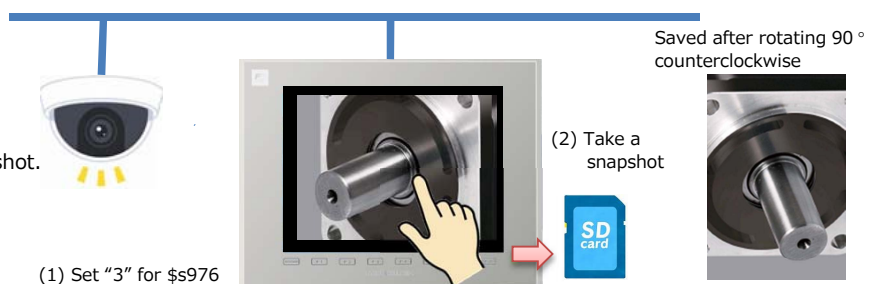
<Overview>

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



Function

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

Logger

◆ Setting selected

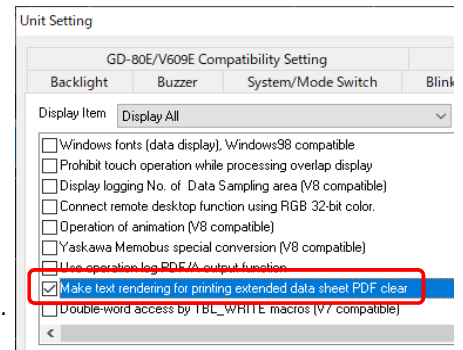
Logger

<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

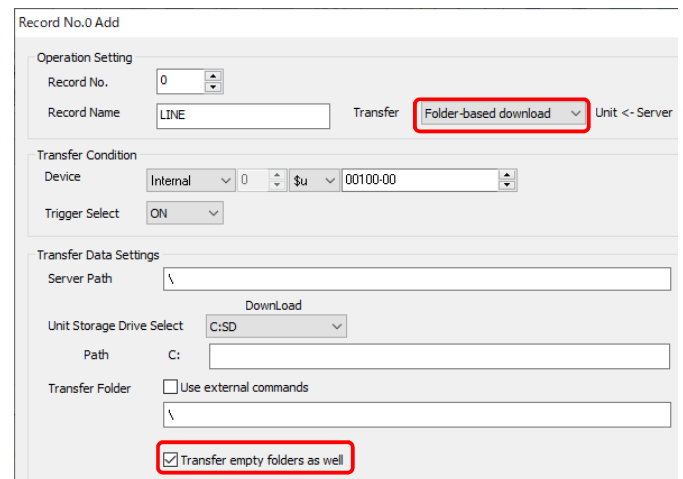
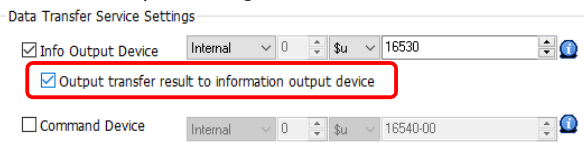
■ Outputting transfer results to information output device memory

<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	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>

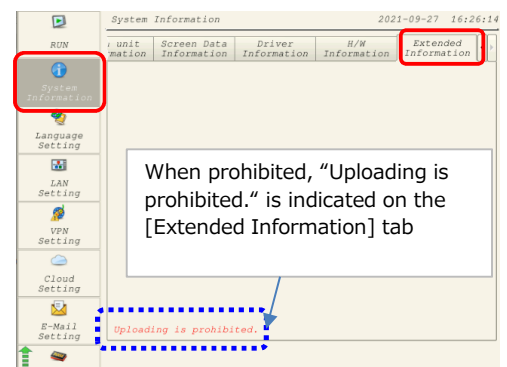
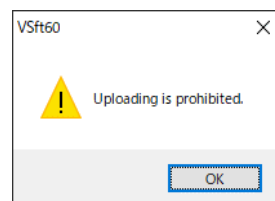
Uploading of a screen program from the V9 series unit to a computer or any storage device can be prohibited to prevent the leaking of screen programs.

<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.



Function

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.

ID	Tag	Type	Array	No. of Elements	Device	Comment	Status of Use	Conversion
0	AAA	Word	☐		D00100		Not Used	Yes
1	BBB	Bit	☐		M00000		Not Used	No
2	CCC	Word	☐		D00102		Not Used	No
3	DDD	Word	☐		D00103		Not Used	No
4			☐					

Conversion Settings

Input Type: DEC

Display Format: DEC (w/o sign)

☒ Alarm

Minimum: Constant DEC 0

Char. Color: Background

Maximum: Constant DEC 100

Char. Color: Background

☒ Operation

0.00 + [Data] × 1.00

☒ Scaling

Range before Scaling: 0.00 - 65535.00

Range after Scaling: 0.00 - 100.00

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

Num. Display

Contents

Style

12345

Device to Display

Device: Tag AAA

☒ Use tag operation/scaling/alarm

Data Length: 1.0000

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

Applicable model: X1

<Overview>

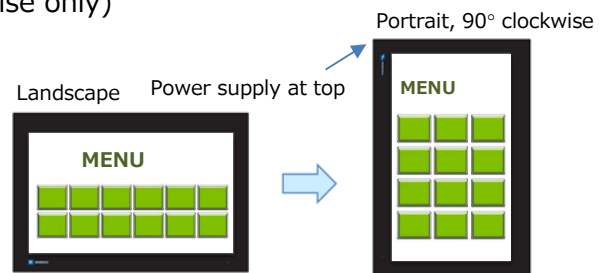
Portrait orientation for the X1 series is now supported.

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.

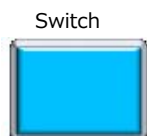
Since macros are not used, startup settings are made easy and the specification of the startup timing and device memory for startup details is more flexible.

- 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]



Switch

Function: Standard

☐ Display All

Word Operation

Language changeover

Storage Disconnection

Ladder Monitor

Start application

Explanation: Starts an application.

☐ Designate by device

Application path: C:\Program Files (x86)\Adobe\Reader 9.0\Reader\AcroRd32.exe

Parameter: C:\UserData\manual.pdf

☒ Prohibit multiple instances

Prevents multiple instances of a file.

When using a PLC command

[System Setting] → [Other] → [Start application Settings] → [Control Device] checkbox

Start application Settings

☒ Control Device

Internal 0

ST 00000

☐ Designate by device

Application path: Excel.exe

Parameter: C:\UserData\sample.xlsx

OK Cancel

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	0	0	0	0

1: Multi-instance prohibition*

0 → 1 (edge): Startup

* Prevents multiple instances of a file.

13 X1: Multi-display function supported

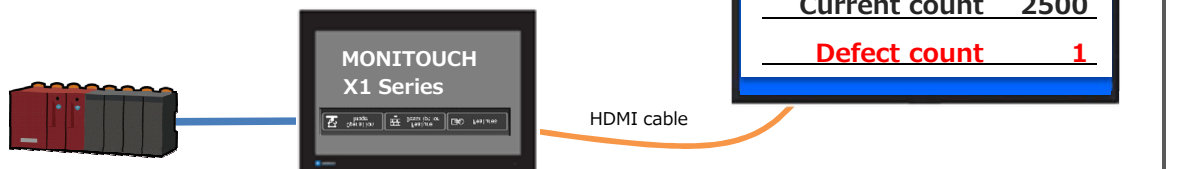
Applicable model: X1

<Overview>

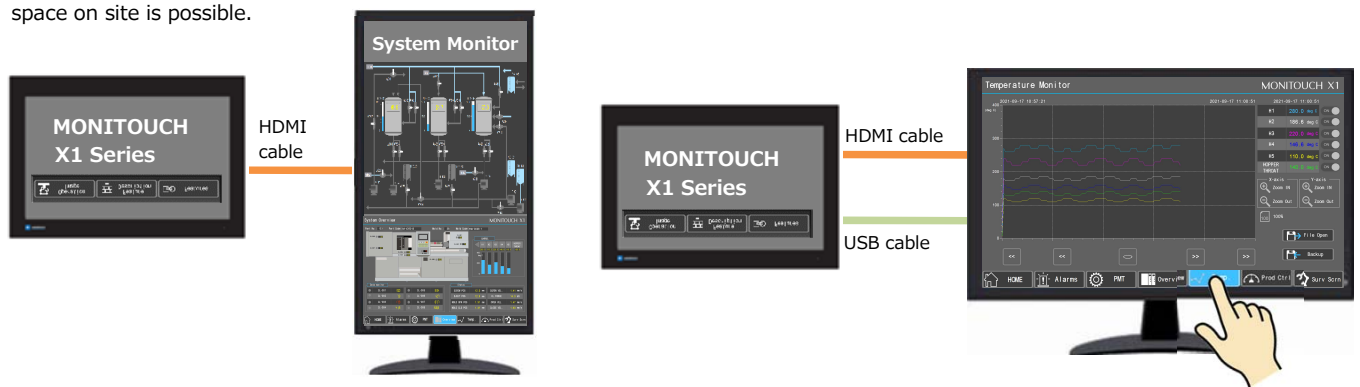
By connecting a display to the X1 unit using an HDMI cable, the X1 unit and display can both display screens and be operated independently.* A large display can be used to notify people on site that an error has occurred or of information such as the production quantity and number of defects. It can 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).

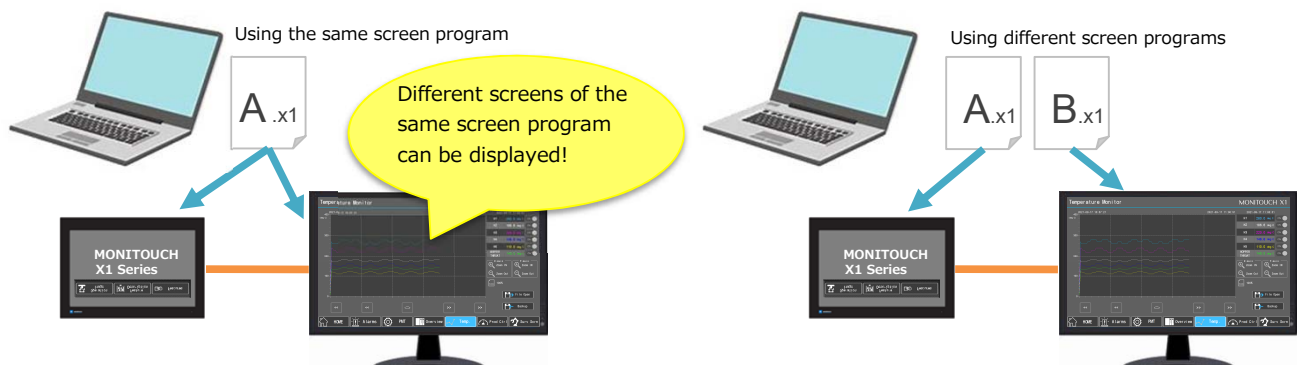
- ◆ Displaying different screens on X1 and display
The information that can be checked at one time can be increased.



- ◆ Installing the X1 and a display in portrait orientation
Installation according to the environment and allowable space on site is possible.
- ◆ Using a display with touch switches
By connecting a USB cable, touch operations on the display are possible.



- ◆ 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.



<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.

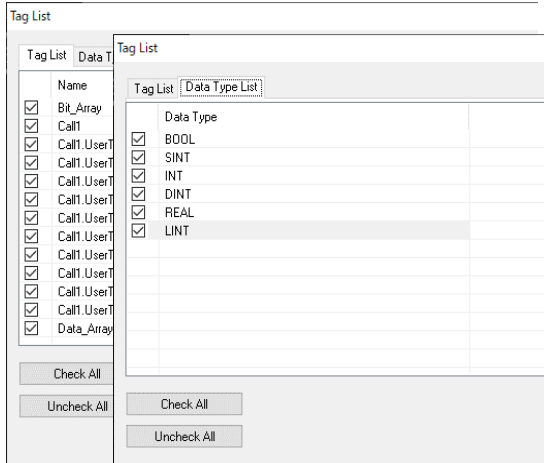
1 Extended specifications for Allen-Bradley tags

<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.

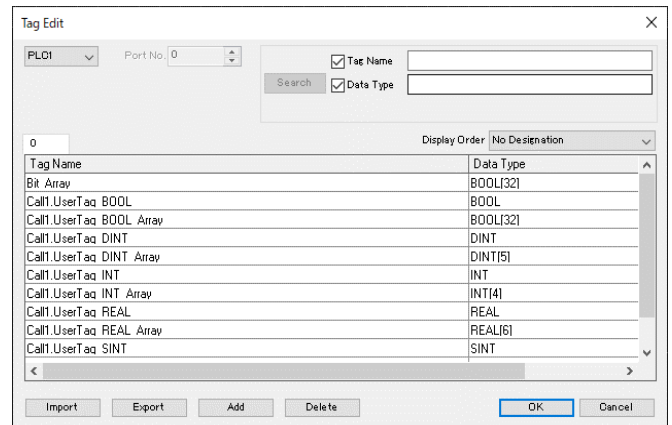
Importing using AND conditions



<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.

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.

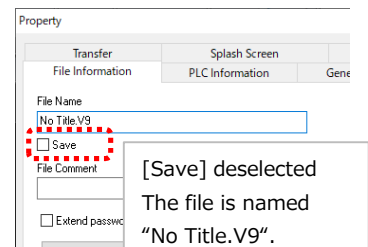
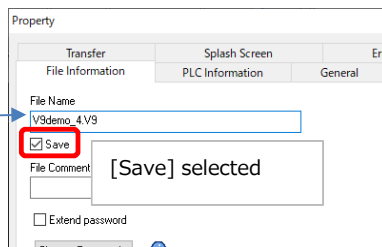
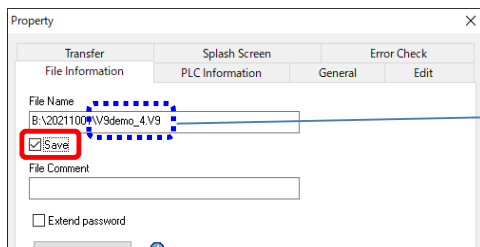
This function is convenient because when controlling screen programs by filename, the original screen program data can be determined from the filename.

<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



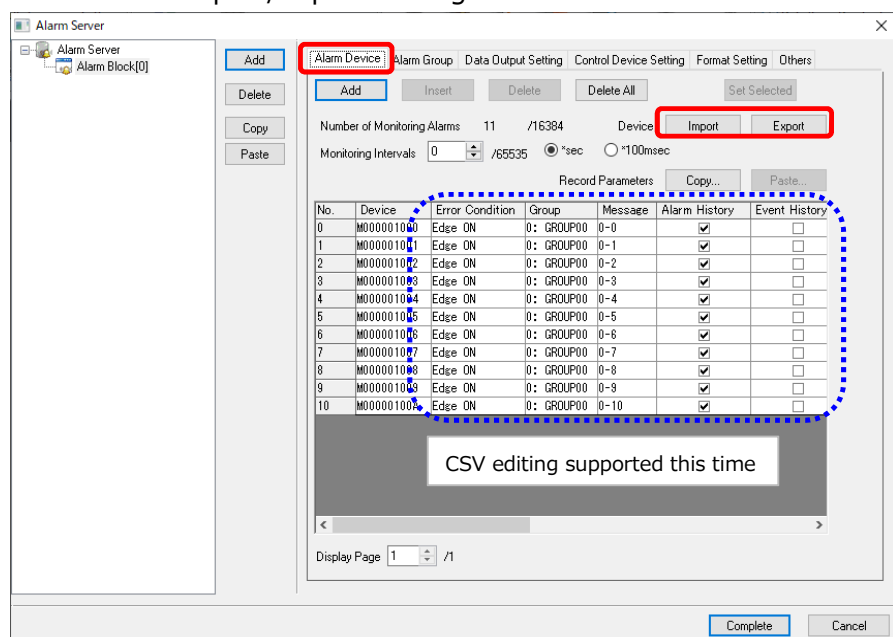
3 Alarm server: Extended specifications for import/export editing

<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]

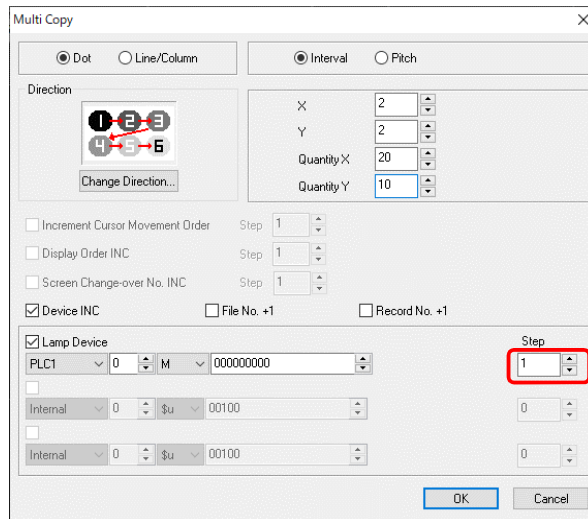


* For details, refer to the V9 Series Reference Manual 1.

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>

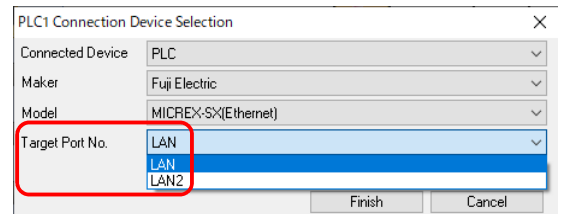
The range for patterns and 3D part bitmap areas is extended.

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.