

EcoStruxure Operator Terminal Expert 3.3

Service Pack 1

Read Me

Document Revision: 02

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1 SOFTWARE DESCRIPTION

This software provides an integrated development environment that enables you to use a personal computer to create a Human Machine Interface (HMI) user application. The HMI user application, used by the runtime software, can run on multiple platforms.

2 SYSTEM REQUIREMENTS (SCREEN EDITING SOFTWARE)

	Minimum specifications	Comments
PC	Windows PC/AT compatible machine	-
CPU	8th Generation Intel(R) Core™ i3/i5 Processors or faster	-
Memory	8 GB or more	-
Available Disk Space	30 GB or more	-
Operating System	Windows 10 Pro (64-bit) with latest update	-
Other non-operating-system programs	.NET Framework 4.6.2 full *1	-

*1 When installing the screen editing software, .NET Framework Ver.4.6.2 full is automatically installed. For disk space requirements, visit the Microsoft website.

Note:

- This product must be installed and configured by qualified software installation personnel with administrator rights.
- The software installation file is configured with a digital signature. If any issue regarding the digital signature arises during installation, cancel the installation and contact customer support.

2.1 Software Requirement

PDF reader is required to open the Readme.

2.2 Display Resolution

The software application is best viewed with a screen resolution of 1280x800 pixels or higher.

3 ACCESS RIGHTS

3.1 Screen Editing Software

You can install or uninstall the screen editing software with administrator privileges.

3.2 Runtime (iPC Series / PC/AT)

You can install or uninstall the run time with administrator privileges.

When transferring project files, launch the run time with administrator privileges before transferring.

4 FOR SECURE APPLICATIONS

This section explains some points to securely configure applications.

Note: Security related messages appear in the Feedback Zone's [Security Warnings] tab. Review messages and take required corrective action to reduce your cybersecurity risk.

4.1 Cybersecurity Best Practices

To help keep your Schneider Electric products secure and protected, we recommend that you implement the cybersecurity best practices.

Following the recommendations may help significantly reduce your company's cybersecurity risk.

For the recommendations, refer to the following URL:

<https://www.se.com/ww/en/download/document/7EN52-0390/>

4.2 To build a secure network for unauthorized access prevention

- Build a communication environment using encrypted communications (ex. VPN).
- Check that the network is secured before communication is established and data is transferred through the Ethernet.
- Select a transfer option that is not based on Ethernet communication (ex. USB Cable or FileSystem). If you need transfer option based on Ethernet communication, we recommend to use IPsec.
- Open the port for data communication only when you use the communication service.
- Protect your PC with a firewall and make sure it is used on a trusted secure network.

- Install the panel on a trusted secure network and protect the panel with a firewall.

4.3 To prevent impersonation in Target Machine

- Use the Security features.
 - Use the auto logout feature.
 - Give an appropriate security level for unlocking to limited users (allow only users with administrator rights to unlock, and so on).
- Password is not asked for the below operations:
 - External Device operation block - Upload (USB Storage/SD Card)
 - External Device operation block - Download (USB Storage/SD Card)
 - Display the Hardware Configuration

Set the security level for the Switches which are used for above operations.

- When using Web Viewer to connect to the panel, do not touch the [***] button to display the password. The displayed password will become visible to all connected panels and Web Viewer clients.

4.3.1 When Using HMIGTU Series Open Box (Windows 10 IoT Enterprise Model), iPC Series, or PC/AT

- Use runtime only on a trusted PC.
- Do not log in to Windows with an account that has administrator rights, except when transferring project files or performing other operations that specifically require administrator rights.
- Use the security features in Windows (set a password, use the auto-logout feature, etc.).
- Set secure passwords and security for the administrator account for your project.

4.4 To protect information from alteration

- Harden your PC following the best cybersecurity practices (antivirus, updated operating systems, strong password policies, Application Allow Listing software, etc.) using the following guideline:
<https://www.se.com/ww/en/download/document/7EN52-0390/>
- Carefully manage your own data.
- Protect your project by adding a project password.
- When using transfer option based on USB Cable or Ethernet Cable, enable [Security Setting] in [Transfer Method].
- Do not execute screen editing software with Windows administrator rights.
- Use screen editing software only on a trusted PC.

5 LICENSE / REGISTRATION

Please refer to Help from the Schneider Electric License Manager.

6 TOOLS

You can distribute the following tools installed in the [Tools] folder.

- Export Validation Tool
- User Management Tool

7 WHAT'S NEW

7.1 Updated Drivers

New CPUs supported by the following drivers.

- Schneider Electric - Modbus SIO Master
- Schneider Electric - Modbus TCP Master

7.2 Script

The following value block is now supported.

- Language Text ID

8 FIXED LIMITATIONS

8.1 Screen Editing

8.1.1 Screen / Content

- Fixed an issue where selecting a screen or content from the [Screens] or [Contents] node in the [Project Explorer] window displayed a "loading" message box that would not close.

8.1.2 Simulation

- Fixed an issue where a screen did not display in simulation.

8.2 Panel Operation

8.2.1 Parts / Shapes

8.2.1.1 Date/Time Display and Time Display

- Fixed an issue where the [Format] property did not change when associated with a [Language Table Text] source property.

8.2.1.2 N-State Lamp

- Fixed an issue so the N-State lamp displays as expected.

8.2.1.3 Numeric Display

- Fixed an issue with the Numeric Display where you could not enter values after the decimal point for recipe ingredients set up with float values.

8.2.1.4 Recipe Dropdown List

- Fixed an issue where a Recipe Dropdown set up with interlock could be unlocked by setting a different Recipe ID.

8.2.2 **Trigger / Operation**

- Fixed an issue where a [Value Change] trigger's Hold Delay timer was reset when there was a change in any properties of an associated object.
- Fixed an issue where a [Condition] trigger set with an external variable did not work even though the condition was met.
- Fixed an issue with the "Change Previous Screen" operation or script in a Part or Shape went back two screens if the Part or Shape was touched and released quickly.

8.2.3 **Logging**

- Fixed an issue where you could not export logging data from the panel when a DATE_AND_TIME external variable was logged, and the variable value was invalid.

8.2.4 **Recipe**

- Fixed an issue where importing a recipe CSV failed if the file contained multiple recipe data associated with the same variable.

8.2.5 **Security**

- Fixed an issue where the default value in the [Screen ID after Auto Logout] property in the Auto Logout function did not display the specified screen after logging out of the panel.

8.2.6 **Variables**

- Fixed an issue where variables used in the input range of a variable or Numeric Display object sometimes allowed an out of range value and sometimes rejected a value within range.

8.3 **Cybersecurity**

- Fixed an issue where the booting process for the screen editing software was changed fraudulently.

CWE-22: Improper Limitation of a Pathname to a Restricted Directory (Path Traversal)
For information please refer to the site below.
<https://cwe.mitre.org/data/definitions/22.html>

CWE-89: Improper Neutralization of Special Elements used in an SQL Command (SQL Injection)
For information please refer to the site below.
<https://cwe.mitre.org/data/definitions/89.html>

CWE-347: Improper Verification of Cryptographic Signature
For information please refer to the site below.
<https://cwe.mitre.org/data/definitions/347.html>

- Fixed an issue where the loading process of a project file for the screen editing software was changed fraudulently.

CWE-22: Improper Limitation of a Pathname to a Restricted Directory (Path Traversal)
For information please refer to the site below.
<https://cwe.mitre.org/data/definitions/22.html>

CWE-704: Incorrect Type Conversion or Cast
For information please refer to the site below.
<https://cwe.mitre.org/data/definitions/704.html>

CWE-347: Improper Verification of Cryptographic Signature
For information please refer to the site below.
<https://cwe.mitre.org/data/definitions/347.html>

- The following security vulnerabilities have been addressed in this release:
CVE-2021-42378, CVE-2021-42379, CVE-2021-42384, CVE-2021-42385, CVE-2021-42386

9 LIMITATIONS

This section lists the limitations that are applicable to both the Screen Editing Software and Runtime.

9.1 License

- In the Schneider Electric License Manager, if a version 3.0 trial license is still active, please remove it.

9.2 Screen Editing

9.2.1 Screen Editing Software

- You cannot search for a variable in an array variable element by its full variable name. Search for either the name of the array variable or the variable used in the array element. For example, if the search target is "Var1[Var2.Value].Value", search "Var1.Value" (name

of array variable) or "Var2.Value" (name of variable used in element). Search will not work with "Var1[Var2.Value].Value".

- If there are a large number of variables (for example 20000) and you perform many filter actions in the Variable Editor columns, the mouse may show the busy icon in the Variable Editor. On relaunching the application, the mouse will return to its normal icon.
- You cannot use the comma "," as a decimal separator in the screen editing software.
- If you install the screen editing software on a PC with SoMachine or EcoStruxure Machine Expert already installed, some USB drivers may not be recognized.
- In the screen editing software, if you open a project file in a read-only folder, the screen editing software may crash when you try to save the project file to a writable folder.
- Do not install the screen editing software in a path with Unicode characters. Select a path without any Unicode characters.
- When deleting triggers in the [Event] tab, the scripts that use the triggers are also deleted from the Script editor without displaying a confirmation dialog box.

9.2.1.1 Project File Name

- When using the project file with EcoStruxure Machine Expert (System Mode), the maximum length of the project file name is 42 characters. (In all other cases, the maximum is 200 characters.)

9.2.2 Project File Conversion

- When using the screen editing software with a project converted from a previous version, an error is incorrectly shown for an N-State Lamp object's [Variable] property during validation.
Double click the error and the error will disappear.
- Before opening a project file in this version, refer to the user documents.
From the Manual top page, click the [Feature Guide] icon and in the table of contents select [Before Use] and then [Notes of Project File Conversion].

<https://hmi.schneider-electric.com/manual/EcoStruxure-Operator-Terminal-Expert/history/en/index.htm>

9.2.3 Screen / Content

- If you add a screen with [Screen Type] set to [View Box], the screen may not draw correctly if the following conditions occur.
 - A script does one of the following:
 - ✧ Change language using the Target source property (<target name>.Preferences.LanguageID)
 - ✧ Perform a [Security] - [Login] operation
 - ✧ Change visibility using Content Display source property (<object name>.Visibility)
 - After executing the above, screen change or content change operation occurs.

- Although you can copy screens or content from screen editing software version 3.3, to screen editing software version 3.2, 3.2 service pack 1, or 3.2 service pack 2, it may result in some unexpected behavior.

9.2.4 Parts / Shapes

- If you use the [Ctrl] key and mouse to copy a part or shape, it may be unintentionally duplicated in the same position.
- When configuring a string type touch operation in an object ([Function] tab - [Touch] tab), do not set a large numeric value in the [Source]. Otherwise, the string set to the destination will be incorrect.
Use a script instead of the above.

9.2.4.1 Alarm Summary

- In an Alarm Summary part, when you change column items or change their order from the default, you cannot reference the "Columns[*].Title" property from other properties. If you do make this reference, errors may arise or the application may not run properly.

9.2.4.2 Web Browser

- The Web browser part does not support Serbian fonts. In the Screen Editing software, even though you can set the [Font Type] to [Serbian_Gothic], the Serbian font will not appear on the panel.

9.2.4.3 Content Display

- The width and height of a content display and referenced content may not be correct when the values are referenced from other properties or script.

9.2.5 Font

- Chinese_Simplified_GB2312_Gothic will not be supported in the next version, nor in later versions. Project files that use this font from previous versions will be converted to Chinese_Simplified_GB18030_Gothic

9.2.6 Script

- After deleting a variable used in a script, even though you rename another variable name to the same name as the deleted variable, the variable block produces a validation error and indicates the variable is Undefined. These errors in the variable block are not resolved.
Clear the error by moving the target block.
- When using an [Equipment] value in scripts, do not leave the setting field blank. If you leave the setting field blank, the screen editing software may exit unexpectedly.
- The screen editing software may show a variable validation error even though the variable is not used in the block mode script.
- If the variable name contains characters from any of the following languages, the Intellisense function will not work even while entering the variable name in Text mode of the script editing screen.

➤ Japanese

- Korean
- Chinese
- When using Search and Replace in Text mode of the script editing screen, word searches containing some special characters ('\$','^','*', etc.) may not work properly.
- When using IME in Text mode of the script editing screen, IME inputs may not work properly. To resolve, display the Search and Replace dialog box.
- When using strings that include the following characters as part of a literal, the screen editing software will show syntax errors when the script is in Text mode.
 - /u
 - /x

If these characters are used as a part of a file pathname, consider specifying the file path using a batch file.

- When the script editing screen is in Text mode, the replace operation on text mode scripts from the [References] window does not work. Instead, use the find and replace operation in the script editing screen.
- In the text script editor, when using an alarm property bound to a structure array variable (for example, Var1.WORD1.HiHi.Message) and you change the alarm type (for example HiHi to LoLo), the reference to the alarm property in the script is not updated. A validation error will appear and the reference to the alarm property in the script will have to be updated manually.
- In the text script editor, the replace function may not work properly if you use Find and Replace to continually replace text.
- In addition to the naming convention, block mode scripts cannot use variables with names that match the keywords in the following table. In addition to variables, text mode scripts cannot use object names that match the keywords in the following table.
User manual will be revised in later version.
For information on the naming convention, refer to the "Naming Conventions" of the user manual.

Keyword				
as	break	checked	const	continue
default	do	explicit	extern	finally
fixed	for	foreach	goto	lock
namespace	operator	readonly	return	static
switch	throw	try	unchecked	unsafe
using	volatile	while		

- When using a variable with the same name as one of the following keywords in the Text mode script, prefix with "\$Global".
User manual will be revised in later version.

Keyword

debugger	delete	export	extends	function
import	instanceof	super	var	with

- Scripts using `$Math.E()` or `$Math.Random()` with an assignment operator (`=`) will not work. Instead, use the `changeValue()` function.

9.2.7 Trigger / Operation

- An error does not occur even if you set one of the following unsupported objects on a Touch trigger.
 - Alarm Summary
 - Hardware Configuration
 - Ingredient Viewer
 - Picture Display
 - Web Browser
 - All Layout Objects
 - Screen / Content
 - Group Object
- [Alarm Group] operations do not support system errors. In the Screen Editing software, even though you can set [Alarm Group] operation to [SystemErrorGroup], it will not run on the panel.
- The [SystemErrorGroup] property is currently not supported. Even if you set the property in the screen editing software, the property will not work correctly.

9.2.8 Alarm

- Script cannot change the alarm message. On the screen editing software, an error occurs when you create a script that changes the alarm message.
- In a single variable, you cannot use real data type numbers with the same integral value in multiple alarm fields. The screen editing software will show a validation error.

9.2.9 Variables

- In the array editor, if you change array dimensions while narrowing the search criteria in the search function, the search may not update correctly.
- Do not import a variable file with a variable named "Structure".
- Do not use a comparison (`<=`, `<`, `>`, `>=`) between a 64-bit variable and constant value. The runtime will not work. Instead of a constant value, use an internal variable.
- After you change the data type of a variable, the screen editing software may not show an error even though the data types for the variable and the device address do not match.

- Renaming a child element of a structure in the screen editing software sometimes also renames child elements with the same name in a different structure.
- You cannot modify the Data Sharing property of external variables by importing variables. Instead, update the [Data Sharing] property of the external variables in the [Properties] window after variable import.

9.2.9.1 Symbol Link

- After importing a symbol file, do NOT delete the associated driver and then add it again. If you need to delete and add the driver, first delete the symbol file and then delete the driver.
- The following data types are either not supported or they are converted to another data type during Symbol Link import:

Not Supported

- ENUM
- INTERFACE

Converted to a primitive type of the source

- SUBRANGE
- POINTER TO
- REFERENCE

Converted to Structure

- UNION
- FUNCTION_BLOCK

- NamedBasicType in Rockwell L5K File is imported as String type in Symbol Link.
- Non-IEC formatted addresses in Unity-Pro File are imported in Symbol Link, however the addresses for these variables become blank. Please delete these variables.
- When importing a SoMachine Basic Modbus Symbol file (.SMBP), variables associated with registers %IWS and %QWS do not import correctly.
- After importing variables in Symbol Link, you can create variables with a user data type based on the Symbol Link. If you delete the Symbol Link, the Screen Editing Software does not display an error message to identify there is no reference for the created variable. You need to manually delete these variables or create the user data type.
- After importing a TIA Symbol file, do NOT rename the folder for the imported symbol file. If you need to rename the folder, first close the project and exit the screen editing software.
- Changing the input range of variables imported using Symbol Link cannot be saved.
- Do not import L5K symbol files that include Arrays or Structures as pre-defined tags.
- The panel may not work properly if you use more than one symbol link.

- The symbol link variable value cannot be stored in backup memory (SRAM), but the [Retentive] property might display in the property window. Even if you enable the [Retentive] property, symbol link variable value is not preserved. Also, if you reopen the project file, the setting becomes invalid.
- When importing a symbol file that contains PLC variable names that use characters that are not supported by the screen editing software, the [Invalid unicode character] error may display. If possible, rename variables in the PLC software.
- You cannot delete variables created from an imported symbol file and then import another symbol file. All symbol files must be imported first. Otherwise, the variable database may become corrupted.
If you want to import another symbol file after deleting the variables, first delete all the symbol files and import the symbol files again. After that, you can delete individual variables.
- Do not change the [Dimension] setting of an array variable imported from a symbol file. Changing the [Dimension] setting may result in unexpected behavior in the screen editing software.

9.2.10 Web Viewer

- If you use Web Viewer in a project that has a folder without a screen in the [Project Explorer]'s [Screen Design] - [Screen] node, you may not be able to operate the screen from a Web Viewer client.

9.2.11 Driver

- When using the following drivers, after importing the Symbol File, remove all unused variables.
 - Schneider Electric - PacDrive
 - Schneider Electric - SoMachine Network
- You can change the [Series] from the equipment property window with the following drivers.
 - Siemens AG - SIMATIC S7 MPI Direct
 - Siemens AG - SIMATIC S7 Ethernet

If there is a variable associated with the device address of one of these equipment, an error may occur after changing the [Series] because supported variable data types depend on the series.

- Even though a project has not reached the maximum number of equipment, the error message "Reached maximum number of *** equipment" could occur on the screen editing software.

9.2.12 Companion Product Integration

- While working with Machine Expert projects in EcoStruxure Operator Terminal Expert system mode, if system update does not display correctly, perform the following workaround in the Machine Expert project:
From the [Build] menu, run the following commands.

1. Clean All
2. Generate Code
3. Build All / Rebuild
4. Save and Save in Repository

- When using System Mode, do not add the same project to the system again.

9.3 Transfer

- In broken mode, you cannot use File System transfer to upgrade the run time before version 3.1.100.
- When transferring a project file that exceeds the maximum size limit, the Screen Editing software will sometimes show an incorrect error message. The project size limit depends on the panel.
When transferring via USB cable or Ethernet, the Screen Editing software displays the message "Download Failed".
On the other hand, when transferring via File System, even if you press the [Transfer] button, the panel shows no indication of an error. However, if you review the system error log, you can see a record that indicates the panel does not have enough space.
- Do not press the [ALT] key during a transfer operation. Pressing [ALT] will sometimes cause the transfer operation to fail.
- Transferring a project with many image files to the panel may take a considerable amount of time.
- The first time you download to a panel with Vijeo Designer installed, if [Download Ethernet Settings] is enabled in the project file, at the end of the download operation the screen editing software shows a download error even if download is successful.
- You cannot download to the following combination of models when they come equipped with Vijeo Designer Runtime by factory default:
 - HMIG3U + HMIDT752
 - HMIG3U + HMIDT952
 1. Use one of the following methods to update the system:
 - In the screen editing software change the display module and download to the HMIG3U over Ethernet or USB cable.
 - Use a system SD card with an image of EcoStruxure Operator Terminal Expert to restore the system.
 2. After successfully updating the system, select the correct display module and transfer again.

9.3.1 Recovery Mode

- When transferring a project with [Download Ethernet Settings] enabled over a USB cable, depending on your transfer settings, a timeout may occur and transfer may not be possible. If that happens, transfer over Ethernet or File system, or transfer with the [Download Ethernet Settings] disabled.

9.3.2 HMIST6 Series and HMISTM6 Series

- Even if a dialog box appears asking whether to keep or overwrite the data on Local Storage, the cancel transfer button continues to be enabled. But, even if you click the transfer cancel button, nothing will happen.

9.3.3 iPC Series and PC/AT

- When using run time version 3.1 or earlier, you cannot transfer project files from version 3.1 Service Pack 1 or later.
If you transfer the project file in the above condition, the following error message appears in the screen editing software.
[Unable to update using download operation. Use the installer to update run time to the latest version.]
In order to transfer, the run time must be re-installed with the same version, or later, as the screen editing software.
Install the run time from the following path on the installation DVD.
"EOTERuntime\EcoStruxure Operator Terminal Expert Runtime.exe"
Installing the run time erases any previously transferred project files. After installation, transfer the project files again.
If .NET Framework is not already installed in the run time installation destination, or its version is older, .NET Framework is also installed. After .NET Framework is installed, the destination unit is restarted.
When installing the run time, there is no need to uninstall the previously installed run time.

9.3.4 External Storage (SDCard / USBStorage)

- For the following data, when using USB storage as the save destination, and following the initial transfer you remove USB storage and delete the data, after the next transfer you may not be able to save the data to USB storage.
 - Alarms
 - Recipes
 - Logging

When this occurs, use File System transfer.

9.4 Panel Operation

9.4.1 Screen / Content

- If the Scroll Grid Content is smaller than the Content Display object, the Scroll Grid Content is magnified to the Content Display object.
- Changes in values may not be reflected in screen drawings while there are frequent system errors, you are continually accessing back up memory, and there are many changes to variable values.
- If communication between the panel and external device is unstable, the screen on the panel may freeze for several seconds on a screen change.

9.4.2 Hardware Configuration Screen

- When restarting the run time by using an operation in the Hardware Configuration screen, the status of external storage may not be updated.
When that happens, cycle the power on the panel.
- When implementing a filter in the filter setup screen [Filter Simplified] with the Operation Log Screen in a Hardware Configuration, sometimes items do not display correctly.

- In the Hardware Configuration screen, when you configure Secure Connect parameters for the first time, [Save & Restart] will not restart the panel. Use some other method to restart, such as powering OFF/ON.
- In the Hardware Configuration screen, the Scan Control menu for up to 32 devices is displayed for each driver. If you cannot change the scan control from the Hardware Configuration screen, use the equipment source property '.ScanOffControl' to change the scan control.

9.4.3 Keypad

- While the keypad is displayed, reverse display may not show properly for rapid touches. This is only a display issue and values are written properly.

9.4.4 Parts / Shapes

9.4.4.1 Text Box

- When using the Bold attribute in a Text Box object, the thickness of text may differ between the screen editing software and the panel.

9.4.4.2 Alarm Summary

- You can display up to 146 items in the Alarm Summary part's filter setup screen [Filter Simplified]. When there are more than 146 items, narrow down the list by either using the [Search] field or the [Filter Detailed] settings.
- When implementing a filter in the filter setup screen [Filter Simplified] with the Alarm Summary part, sometimes items do not display correctly.

9.4.4.3 Numeric Display

- In a Numeric Display part, if you use a source property together with a converter for the [Current Value], the [Format] and [Decimal Places] properties of the Numeric Display part are not applied even though you can set these properties. Instead of these properties, the settings in the converter properties apply. The target converters are as follows.

- Unit
- Scale
- Expression

The above operation is correct. In future versions, in the above case the [Format] and [Decimal Places] properties of the Numeric Display part will be disabled.

- When setting the Prefix or Suffix in [Arabic_Gothic] or [Hebrew_Gothic] font, the Prefix or Suffix characters display in the wrong order in the panel.

9.4.4.4 String Display

- Do not enable [Display text as *] on a String Display part with IME Japanese input. The currently stored string is displayed while typing characters. If you want to use the [Display text as *] feature, design a mechanism to clear the string before starting input.

9.4.4.5 Trend Graph

- When displaying historical data in a Trend Graph part, the display may flicker.

9.4.4.6 Web Browser

- The Web browser part no longer supports TIFF and MNG image file formats.

9.4.4.7 Picture Display

- If the width of the picture display is thinner than the width of control icons (arrows, zoom in, zoom out) that appear when an object is selected, touch may not be possible even if you touch outside the area of the picture display.

9.4.5 **Trigger / Operation**

- When animation or change in visibility hides a pressing object, Touch trigger (Release or Click) does not occur during that. The triggers operate as if the object is not hidden.
- The more [Array] Operations with the [All] check box selected, the longer it will take for the first screen change.
- When using the [File Management] Operation, if the file or folder name uses non-ASCII characters, the file or folder name will not display correctly in the [Confirmation Message] displayed by the [File Management] Operation.
- While external storage is not recognized by the panel and an [External Storage] operation is run, there is no system error.

9.4.6 **Alarm**

- When starting up the run time, the more Active state alarms you have in the project the longer the start up time.
- When associating [Language Table Text] in an alarm message, the filter function of Alarm Summary objects does not work correctly.

9.4.7 **Logging**

- If a data logging operation occurs while a [File Management] Operation is in progress, sometimes data may not be logged depending on the logging frequency.
- SQL reserved words may not be used for the names of logging groups.
- Exporting logging data may sometimes take an excessive amount of time, depending on the logging group settings below, the structure of the current screen when export is executed, and the model of the panel.
 - Maximum number of records
 - Number of registered variables
 - Available storage of export destination
- The display of a Trend Graph part could be very slow depending on the number of Trend Graph part display points, the maximum number of records in the logging group, and the

model of the panel. The number of display points on the Trend Graph part increases or decreases depending on the following settings.

- Number of channels
- Unit
- When using the Logging function, you can configure the following.
 - Logging Group: The number of maximum records, external storage of exported data, and the number of assigned variables
 - Trend Graph object: The number of channels and number of display points
 Processing the following could take a lot of time depending on the combination of the above settings, the screen configuration when the process is executed, and the panel.
 - Exporting logging data
 - Displaying trend graph
 - Starting panel

9.4.8 Recipe

- Even though you configure the [Max Input] and [Min Input] of ingredients in the screen editing software, the [Max Input] and [Min Input] do not display on the panel when changing ingredient values.

9.4.9 Network

- If you set an IP address that duplicates another device on the local network in operation, or if you connect a device with an IP address that duplicates the panel to the local network, you cannot detect duplicating IP addresses.
Only at runtime startup, the runtime check the IP address of the device on the local network and a system error occurs if there is duplication with the panel.
After changing the IP address of the panel, the runtime will be rebooted, so please check whether system error has occurred after rebooting.

9.4.10 Web Viewer

- When using a graphical object under one of the following conditions, there may be a display difference between the panel and Web Viewer.
 - 'Animation.RotationAngle' and 'Animation.Rotation Center(X)/(Y)' are set, and the object is part of a grouped object.
 - 'Animation.RotationAngle' and 'Animation.Rotation Center(X)/(Y)' are set, and [Height] or [Width] property is associated with a source property such as a variable value.
- If a project transfer operation fails, the Web Viewer license is removed. Activate Web Viewer again on the panel with the same license keycode.

9.4.11 OPC UA Server

- When using the OPC UA server function, on first starting up the panel generates a server certificate. On first connecting to the server, the OPC UA client verifies the server's

certificate.

As the server certificate is renewed in the following cases, the OPC UA client may have to check the server certificate again.

- In the Hardware Configuration screen, from the [OPC UA Server] menu the command [Regenerate Certificate] is selected.
- Transfer via File System (This issue does not arise with Ethernet and USB cable transfer.)
- When using OPC UA Server node ID with Structure and Array variables, a duplicate of the Structure or Array name will appear.
For example, the node ID for [Target1] in [Str.WORD1] becomes "[Target1.Str.Str.WORD1]".

9.4.12 Driver

- When you use the driver of Schneider Electric, and [Unlocated Variable], Runtime may not show valid errors. In this case, please enable [IEC61131 Syntax].
- When you use the Modbus driver from Schneider Electric and then create a Symbol link with TM devices, the screen editing software can successfully import that device. But, because TM devices are not supported, the associated variable will not work correctly.

9.4.13 HMIGTU Series Premium Box / Open Box

- When using CANopen Slave and TIA Portal Ethernet drivers at the same time, do not add any more drivers. Additional drivers could interfere with CANopen Slave communication.

9.4.14 HMISTO Series

9.4.14.1 Schneider Electric - PacDrive

- When using HMISTO Series with the Schneider Electric - PacDrive driver, sometimes connection system errors will occur.

9.4.15 HMIST6 Series

- Flow control XON/XOFF is not available.
- System error SYS02002 is displayed even after replacing the battery and restarting the panel. The error disappears after transferring the project file again.

9.4.16 iPC Series

- You must have 4 GB or more memory in a Schneider Electric iPC target machine to install the PC runtime.

9.4.17 iPC Series and PC/AT

- When using multibyte characters for file or folder names for logging, operation log, and alarm export destinations, the system locale for the operating system must be set appropriately.

- When using multibyte characters for the file or folder name for an Image Display part's image save destination, the system locale for the operating system must be set appropriately.
- When the group name for general users is not "Users", such as "utilisateurs" on a French operating system, add full control access rights to C:\ProgramData\Schneider Electric\EcoStruxure_OTE Runtime\data to the user group.
- Use [Run as administrator] the first time you start the run time after installing it. From the Start menu, right-click the [EcoStruxure Operator Terminal Expert Runtime] icon and from the shortcut menu select [Run as administrator]. If you do not run as administrator, the Welcome Screen may not appear.
- Do not install the runtime in a path with Unicode characters. Select a path without any Unicode characters.

9.4.18 External Storage (SDCard / USBStorage)

- While USB storage is being continuously accessed, even though you eject the USB device, it may not work.
Provide a function to either interrupt access to USB storage or change the storage destination.

9.5 Cybersecurity

- Perform authenticity and content verification of exported files (.csv, .txt) before executing any scripts embedded in the file. Unless the user intentionally develops or creates the script, exported files will not contain any scripting.
- Open only trusted project files in the screen editing software.

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10.2 SQLCipher

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10.16 log4net

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10.17 MessagePack

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10.25 System.Collections.Immutable System.Configuration.ConfigurationManager System.Reflection.Emit System.Reflection.Metadata System.Threading.Tasks.Extensions System.ValueTuple

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