SIEMENS

Validity 1

Installation 2

General information 3

Improvements in Update 2 4

Improvements in Update 1 5

WinCC flexible 2008 SP5 Update 2

Readme

03/2020

Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

⚠ DANGER

indicates that death or severe personal injury **will** result if proper precautions are not taken.

⚠ WARNING

indicates that death or severe personal injury **may** result if proper precautions are not taken.

⚠ CAUTION

indicates that minor personal injury can result if proper precautions are not taken.

NOTICE

indicates that property damage can result if proper precautions are not taken.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

Proper use of Siemens products

Note the following:

⚠ WARNING

Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

Trademarks

All names identified by ® are registered trademarks of Siemens AG. The remaining trademarks in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owner.

Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

Siemens AG
Digital Industries
Postfach 48 48
90026 NÜRNBERG
GERMANY

℗ 03/2020 Subject to change

Copyright © Siemens AG 2020.
All rights reserved

Table of contents

1 Validity 5
2 Installation 7
3 General information 9
4 Improvements in Update 2 11
5 Improvements in Update 1 17

Validity

1

Validity

This update is valid for the following WinCC flexible editions:

- WinCC flexible 2008 SP5

Installation

To install the update, please follow the instructions in the chapter "Installation".

Installation

2

Requirements

This update requires one of the following WinCC flexible installations:

- WinCC flexible 2008 SP5

Install the update on your configuration PC.

Procedure

To install the update, proceed as follows:

1. Double-click on the "WinCCflexible2008_SP5_Upd2.exe" file.
2. Follow the instructions in the setup program. The default settings can be retained.
3. If necessary, restart the PC.
4. Open your project on the configuration PC.
5. Execute a full compilation with the menu command "Project > Compiler > Rebuild All...".
6. Transfer the project to the HMI device once again.

General information 3

General information

General information that could not be included in the manual or online help for WinCC flexible 2008 SP5.

Signature error when starting the setup

The signature of some setup components had to be updated. If the operating system in use is not up to date and therefore does not have the latest root certificates, the new signature cannot be verified and the setup cannot be executed. An error message appears. This applies in particular to Windows 7.

Remedy: Connect your PC to the Internet and install any pending updates for your operating system. It should then be possible to install the product.

Teleservice

TeleService is not enabled.

Logs and recipe data on a server

The following HMI devices are not suitable for storing logs and recipe data on a server:

- OP 77B
- TP 170B, OP 170B
- TP 177B, OP 177B
- TP 270, OP 270
- TP 277, OP 277
- MP 270
- MP 370
- Mobile Panel 170
- Mobile Panel 177

Changing the installed components

No changes can be made to the installation after an update has been installed. No application components can be added or removed. If an adaptation is necessary, uninstall WinCC flexible 2008 SP5. Then reinstall it with the components you want and run the update.

Improvements in Update 2

4

This update contains the following improvements:

Installation

On newer versions of Windows 10, it may happen that necessary firewall settings were not made during installation of WinCC flexible 2008 SP5 or WinCC flexible Runtime 2008 SP5. This could result in unexpected behavior when working with WinCC flexible. Missing firewall settings are set when you install Update 2.

The following redistributables are now also installed when WinCC flexible Runtime is installed:

- Microsoft Visual C++ 2010 x64 Redistributable
- Microsoft Visual C++ 2010 Redistributable
- Microsoft Visual C++ 2012 x64 Redistributable
- Microsoft Visual C++ 2012 Redistributable

WinCC flexible project migration

After opening an integrated project created with an earlier version of WinCC flexible, synchronization with STEP7 no longer worked after project migration. The synchronization only started after the project was closed and reopened.

The migration may take longer than expected when migrating large projects with large project libraries. This could create the impression that the application is no longer operable. To counteract the impression of a frozen application, additional progress messages were introduced to visualize the migration progress.

TIA Portal project migration

When importing help texts for analog or discrete alarms, zero characters could also be imported. These zero characters caused a crash during project migration to TIA Portal. The CSV import has been improved. Any zero characters are removed when the project is opened.

Language setting UFT-8 in Windows 10

As of build 1803, the character encoding UTF-8 can be activated in Windows 10. As this setting could lead to errors in WinCC flexible, the program's stability was improved in this respect.

Database

After updating Windows or other applications, it could happen that the SQL Server 2014 Express database used by WinCC flexible was no longer accessible. The routines for handling such problems have been improved and will result in fewer such error messages.

Under certain circumstances, internally required objects were no longer released and unnecessarily occupied space in the database.

In rare cases, e.g. when WinCC flexible is closed via the Task Manager, it may happen that dictionaries and projects remain connected to the SQL server. If Update 1 was installed in this state, the affected dictionaries and projects could no longer be opened. This state is now recognized. Projects and dictionaries that are connected to the old SQL server are disconnected.

Memory management

When WinCC flexible reaches its limits of available memory, the execution slows down as more and more attempts are made to free up main memory. The storage management in this limit range has been improved.

Start screen

Error messages occasionally appeared behind the start screen when WinCC flexible was started and could therefore not be operated. To ensure operability, the start screen is now movable.

Incorrect WinCC flexible version in STEP 7 dialogs

In some STEP 7 property dialogs, the "2008 SP2" version and not "2008 SP5" was displayed for newly created HMI stations.

On-screen keyboard

Under Windows 10, the command to open the on-screen keyboard in the "View" menu in WinCC flexible could not be operated.

Display of folders and files in the file browser

Under Windows 10, version 1803 or higher, not all items in a folder were displayed if there was a link to the so-called "Windows Master Control Panel".

Saving the project during logoff

If there are unsaved changes in the project, a dialog for saving the last changes will appear when you try to log off or shut down Windows. Even if the "Save" command was executed in this dialog, the last changes were missing when the project was opened the next time.

Animations

If changes were made to a screen object while the animation preview was displayed, the preview did not update.

Array tag

When working with older versions of WinCC flexible, array tags could be configured with indices that were outside the defined range. This was not previously displayed and was also not reported as an error by the compiler. Such errors are now displayed as tooltip and reported during compilation.

Output window

The width of the "Description" column has so far automatically adjusted to the window width. Changed column configurations were not saved.

Non-initialized function parameters

If not all parameters are initialized when calling a function, this could lead to an error message or a crash when starting the Runtime. Non-initialized parameters do not lead to a compiler error.

XML export, XML import

The XML export can also be started via a command line call. The command line based XML export aborted with an error when exporting "Text Library" elements.

An XML import of large projects could lead to an out-of-memory crash, even if there were still main memory reserves. The crash was caused by SQL Server resource constraints. To avoid this error, the resource parameterization of the SQL Server has been improved.

Automatically adapt screen objects

For the screen objects "Button", "Graphical I/O Field" and "Switch", the object size was calculated incorrectly when the option "Auto-size" was enabled in graphics mode.

After adding or removing a project language, it could happen that the size of the screen objects "Date-Time Field", "Graphical I/O Field" and "Graphic View" was calculated incorrectly when the "Auto-size" option was activated.

If Chinese is the only project language used, the size of the "Date-Time-Field" screen object was calculated too large when the "Auto Adjust" option was enabled.

Generation error under Windows 10 with certain project languages

Microsoft has renamed some language identifiers with Windows 10, which were still supported with Windows 7 or earlier. These include the languages "Serbian (Latin, Serbia)", "Serbian (Cyrillic, Serbia)" and "K'iche' (Guatemala)". If the project was previously created with earlier versions of Windows and these languages are used, the project could not be compiled under Windows 10 due to internal generation errors.

ProAgent

Projects that use ProAgent can be opened and edited even if the ProAgent option is not installed. At the same time, it could happen that some screens could not be opened and the project could be damaged.

For security reasons, a corresponding alarm is now displayed in the output window and saving of the project is blocked. The user is informed that the ProAgent option must be installed.

In rare cases it could happen that no symbols or comments were displayed in the screen objects of ProAgent in runtime.

In the ProAgent displays, tags with a STEP7 address of "DBX8192" or greater were displayed incorrectly in Runtime.

Backtransfer

An internal database error prevented the project from being opened after a backtransfer.

Libraries

The comment in the properties of a library element could not be completely deleted and instead had to be replaced by another comment or a space.

Opening a library category can take a very long time, depending on the number of elements. As an improvement, the wait mouse pointer is now displayed until all elements are loaded.

Faceplates

With faceplates, the size or position of contained objects may be configured at the interface. The instances of faceplates created in this way might not behave correctly, which could lead to errors in the display. In addition, movement or rotation of the instances was only possible if these instance parameters were subsequently adjusted manually.

Support for this type of instance parameters has been improved.

Creating projects

If a project created with an earlier version of WinCC flexible was opened with WinCC flexible SP5 Update 1 and migrated to the current version, no new projects could be created or configured without errors. This applies to the creation of projects from STEP7 as well as non-integrated projects.

Synchronization of system alarms

If the user interface language changed and an older project opened afterwards, the system alarms contained in the project were not synchronized with the template.

Version management

No other project versions could be opened using Version Management.

Screens and screen objects

If objects are moved on a screen by drag-and-drop operation, these objects are attached to the mouse pointer as a transparent preview. If the objects in a greatly enlarged screen of a high-resolution device are moved down or to the right, this preview was truncated at the bottom or right or disappeared completely.

When a group was put into Editing mode, overlapping screen objects could possibly no longer be selected. When trying to select a screen object, an object located in the background was often selected.

"Polygon" and "Polyline" screen objects.

After adding or removing points of a polygon or a polyline, executing the "Undo" and "Redo" actions will damage the screen objects.

"Status/Force" screen object

If several "Status/Force" displays are configured in a project, WinCC flexible could crash when compiling

Reports

If the grid settings for the "Screens" editor were changed under Settings, the grid was not updated in an open report.

If a great many large report pages with user-defined page format are created, the back pages may not be displayed in the engineering system or display errors may occur when scrolling in this area.

For user-defined page formats, the maximum possible page size corresponding to the dimensions of the "DIN A0" standard was not checked. The compiler did not return any errors.

If incorrect or implausible values for page parameters are specified in the Reports settings, no meaningful error tooltips were displayed. The compiler also did not output any errors.

If all visible elements have been deselected in the "Display mode" section of the "Print alarm" report object, all elements were nevertheless printed.

For the report object "Print recipe", the number of the first recipe or the first data record could be selected to be greater than that of the last recipe or the last data record. The compiler also did not output any error here.

With the "Print recipe" report object, the recipes and data records to be printed can be filtered by the recipe or data record number. All data types were permitted for the tags used for this, although some data types do not work.

With the report object "Print recipe", display errors in the upper area could occur with certain character sets and settings in the engineering system.

In multilingual projects, filtering via the data record name does not work for the "Print recipe" report object if a different display name is configured for the data record in the languages. Only one language is supported for filtering in Runtime.
The behavior in the engineering system was changed to enable filtering. A data record name now applies to all languages and can no longer be changed depending on the project languages.

The zoom factor of the view can now also be changed in the "Reports" editor.

If objects are moved on a report using drag-and-drop operation, these objects are attached to the mouse pointer as a transparent preview. If the objects are moved very far down, this preview was truncated at the bottom or right from a certain coordinate or disappeared completely. The same effect occurs when objects are moved down or to the right in a greatly enlarged screen of a device with high resolution.

User administration

If the setting "The password must contain at least one special character" is not active, no special characters have been previously permitted.

"WinCC flexible" character set

If the "WinCC_flexible" character set is configured with WinCC flexible 2008 SP5 Update 1 for a Windows CE based HMI device, this font was displayed as "Tahoma" in Runtime.

Synchronization with STEP 7

In rare cases, crashes with invalid symbols could occur during STEP7 synchronization.

Simulation with script debugger

If the runtime was to be started with a script debugger ("Project > Generator > Start Runtime with script debugger" menu), an alarm appears indicating that the script debugger was not installed. The problem has been solved. All full versions of Microsoft Visual Studio 2005 or higher are supported, provided at least the programming languages C++ and Visual Basic are installed and script debugging is enabled in the Visual Studio settings.

Basic Panel

If an excessive number of different Asian characters are used in a project containing Basic HMI devices, this could lead to severe performance losses during generation. In rare cases, this could also cause the internal error "OutOfMemoryException".

WinCC flexible Runtime

If only WinCC flexible Runtime was installed without engineering system, the communication via ProfiNet might not work.

A "filter string" of an alarm view configured with WinCC flexible 2008 SP3 Update 4 or higher was without function in Runtime.

An alarm window configured with WinCC flexible 2008 SP3 and compiled with SP5 may not work correctly in Runtime.

Improvements in Update 1

5

This update contains the following improvements:

Empty graphic list entries cause errors during printing

When there was no graphic in a graphic list entry, it was not possible to create the project documentation.

Info texts in WinCC flexible

With some HMI devices, the maximum number of characters permitted for an information text was too low.

Generator: Project files that are too large prevent transfer

With some HMI devices, the generated project could become unusually large so that, in some circumstances, it was no longer possible to transfer the project.

Texts in faceplate instances not editable after migration

After the migration of a project, it was no longer possible to edit the texts of faceplate instances defined at the interface.

STEP 7 integration

After ProSave had been uninstalled, it sometimes occurred that the STEP 7 integration no longer functioned without errors because, under some circumstances, a commonly used runtime library was also uninstalled.

Mobile Panels IWLAN V2

The EU image for Mobile Panels IWLAN V2 is not included in WinCC flexible. You can only transfer the image present in WinCC flexible to non-EU devices.

However, you can download the EU image for Mobile Panels IWLAN V2 from SIOS.

After the introduction of the new EU article numbers, the associated image which enables operation of Mobile Panels IWLAN V2 is made available.

The following individual IWLAN EU devices are supported:

- Mobile Panel 277 8" IWLAN V2
- Mobile Panel 277F 8" IWLAN V2
- Mobile Panel 277F 8" IWLAN (RFID Tag)

You need to select version 1.4.0.0 under "Device selection > Version of the HMI device". Selecting version 1.5.0.0 will result in a bad configuration of the HMI device.

The product announcement "EU order numbers for Mobile Panel 277(F) IWLAN" was published under entry ID 109745667 (https://support.industry.siemens.com/cs/document/109745667/eu-order-numbers-for-mobile-panel-277(f)-iwlan?dti=0&lc=en-WW) for which the EU image is made available for download under entry ID 109746331 (https://support.industry.siemens.com/cs/document/109746331/images-for-mobile-panel-277(f)-iwlan?dti=0&lc=en-WW).

You can find the corresponding product information documents online in the Product Support (https://support.industry.siemens.com (https://support.industry.siemens.com/cs/start?lc=en-WW)):

- Product information "Radio operation within the EU": 109745797 (https://support.industry.siemens.com/cs/document/109745797/simatic-hmi-radio-operation-within-the-eu?dti=0&lc=en-WW)
- Product information "Radio operation outside the EU": 109745796 (https://support.industry.siemens.com/cs/document/109745796/simatic-hmi-radio-operation-outside-the-eu?dti=0&lc=en-WW)
- Product information "HMI Device Images for Download in SIOS": 109748151 (https://support.industry.siemens.com/cs/document/109748151/simatic-hmi-mobile-panel-277-iwlan-v2-mobile-panel-277f-iwlan-v2-mobile-panel-277f-iwlan-(rfid-tag)-hmi-device-images-for-download-in-sios?dti=0&lc=en-WW)

You can find additional information under Industry Support (https://support.industry.siemens.com/cs/document/109746331/images-for-mobile-panel-277(f)-iwlan?dti=0&lc=en-WW).

Transfer to IWLAN devices

In 1.5.0.1, you can transfer IWLAN devices with the device versions 1.4.0.0 and 1.5.0.0.

If you transfer alternately to a 1.4 and 1.5 device, it can occur sporadically that transfer is no longer possible.

Solution

Restart WinCC flexible if autostart is disabled in the Start Center or end the process TransferTool.exe.

Use of Asian fonts

- When using Asian fonts, it can occur that various characters are not displayed in Runtime, especially with the "SimSun" font. This problem occurs more often with Windows 10.
- When using an Asian locale, in particular the "Chinese (Simplified, PRC)" locale (can be set under "Control Panel > Region and Language > Administrative > Language for non-Unicode programs") and depending on the software installed in parallel, Asian fonts may not be transferred in full size or at all into CE Runtime. This may cause Runtime to abort with an error or result in the project not being transferred due to the large file size.
  In this context, problems with Basic Runtime can also occur if there are characters in the project path that do not match the current locale. With the "Chinese (Simplified, PRC)" locale, for example, these may be characters such as "ä", "ö", "ü" or "ß".

- It may be possible to configure the reserved font "WinCC_flexible_smart" if the TIA Portal is installed in parallel. This should not be possible. Instead, only the "WinCC_flexible" font may be offered.
- The following fonts may be missing, depending on the software installed in parallel:
  - Siemens AD Sans
  - Siemens Logo
  - Siemens Sans
  - Siemens Sans Global
  - Siemens Sans SC
  - Siemens Serif
  - Siemens Serif SC
  - Siemens Serif SC Semi
  - Siemens Slab
  - Siemens Slab SC
  - WinCC_flexible
  - WinCC_flexible_high
- Internal generation errors may occur when using the "WinCC_flexible" or "WinCC_flexible_smart" fonts, if they are available.

SQL Server

During startup of the PC or start of WinCC flexible 2008 SP5, an error message sporadically appears that no connection to Microsoft SQL Server 2014 Express can be established. When this occurs, WinCC flexible 2008 SP5 projects can no longer be started from STEP 7. These problems have required manual intervention of the user up to now.

The patch corrects a problem with the SQL Server "user instance" that has already been discontinued by Microsoft. In it, instead of Microsoft SQL Server 2014 Express, the LocalDB variant of the SQL Server 2014 Express is used. The independent LocalDB variant of the SQL Server does not require the "SQL Server (WINCCFLEX2014)" service, which is prone to errors in user instances, and no longer requires administrator rights.

Routing

If transfer via routing is available and active for the current configuration, the project cannot be transferred due to a validation problem.