SIEMENS

SIMATIC

STEP 7 CFC
Readme STEP 7 CFC

Readme

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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 persons are those who, because of their training and experience, are familiar with the installation, assembly, commissioning, operation, decommissioning and disassembly of the product and can recognize risks and avoid possible hazards.

Proper use of Siemens products

Note the following:

⚠ WARNING

Siemens products may only be used for the application described in the catalog and the associated usage information. 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.

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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.

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Cybersecurity information

1

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial cybersecurity measures that may be implemented, please visit
https://www.siemens.com/cybersecurity-industry (https://www.siemens.com/global/en/products/automation/topic-areas/industrial-cybersecurity.html).

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under
https://new.siemens.com/cert (https://new.siemens.com/global/en/products/services/cert.html).

Scope of delivery for SIMATIC STEP 7 CFC

2

The scope of delivery includes:

- SIMATIC STEP 7 CFC V21

What's new in SIMATIC STEP 7 CFC in TIA Portal V21?

3

Stability and performance

With SIMATIC STEP 7 CFC V21, further improvements have been made to the stability and performance.

Supported systems: Virtual PLC

SIMATIC STEP 7 CFC V21 also supports the following CPUs:

- Virtual Controllers: S7-1500V

CFC editor: Improved configuration in tables

The tables for configuring the CFC charts have been revised in CFC V20. CFC provides you with even better support when configuring interfaces, interconnections, and blocks.

The following editors also support these improved tables as of CFC V21:

- Interface parameters (Inspector window)
- Interconnections of structures and structure elements (Inspector window)

Advanced functions

You can use the standard features of table editors, such as:

- Filter function in the title bar of the columns
  Type the character string you are looking for into the field below the column title and press Enter.
  Use the "*" wildcard to replace any character at the beginning, end, or in the middle of the filter text.
  You can combine filters from multiple columns.
- Sorting by clicking on the title of a column
- Selection of all content via the first field in the title bar
- Removal of selections via the <ESC> key
- Copy and paste of cells or rows via keyboard shortcut or context menu
- Dragging with the mouse to transfer content to cells with the same format
- Automatic refresh of the display when actions are undone

Migration of classic projects in TIA Portal

As of TIA Portal V21, neither classic projects nor intermediate migration files can be migrated.

For the migration, use either the integrated migration function of TIA Portal V14 to V16 or the external migration tool for TIA Portal V17 to V20. Then perform a project upgrade.

More information:

- TIA Portal Information System: "Migrating projects and programs > Overview of Migration Options"

See also

General information about SIMATIC STEP 7 CFC (Page 15)

Notes on exporting/importing CFC charts (TIA Portal Openness) (Page 23)

System requirements for SIMATIC STEP 7 CFC

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Hardware requirements

- Requirements for TIA Portal V21

Software requirements

- TIA Portal V21

Supported systems

CFC in the TIA Portal supports CPUs of the following product groups.

Requirement:

- Firmware version ≥ V2.8

Advanced Controllers

- Standard CPUs
- Technology CPUs
- Fail-safe CPUs [1)]
- Fail-safe technology CPUs [1)]
- Redundant CPUs [2)]

1) Only with deactivated fail-safe functionality.

2) In the compatibility tool you find detailed information on which CPUs are supported.

Distributed Controllers

- ET 200SP CPUs
- Fail-safe ET 200SP CPUs [1)]

1) Only with deactivated fail-safe functionality.

Software Controllers

- Standard CPUs:
  - CPU 1507S
  - CPU 1508S

Virtual Controllers

- S7-1500V

Restrictions

- STEP 7 Safety and F-CPUs with enabled F-function are not supported.
  You can use either CFC or the fail-safe functionality on a CPU.

Compatibility tool

With the compatibility tool, Industry Online Support gives you a function you can use to put together a compatible selection of software products or to check existing configurations for compatibility.

In the following entry you can call the compatibility tool and find additional information on the operation of the tool:

- Internet: "Compatibility Tool for Automation and Drive Technology" (entry ID: 64847781) (https://support.industry.siemens.com/cs/ww/en/view/64847781)

SIMATIC STEP 7 CFC licensing

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For CFC, you need an engineering license as well as runtime licenses for each CPU.

License types

Engineering license

A license key must be installed on the PC to configure CFC charts.

Runtime licenses

You need a license key for each PLC.

Depending on the number of instance data blocks which are created during configuration with CFC, you either need a limited or unlimited license:

- A limited license allows you to create a limited number of instance DBs and load them to the PLC.
- With an unlimited license, you can create and upload an unlimited number of instance DBs.

You can find information on the instance DBs in the "Chart sequence and extras" editor in the "Statistics" tab. The number of instance DBs is displayed which have been created in all CFC charts under the PLC.

More information in the TIA Portal Information System:

- "Configuring technologically > Configuring CFC charts > Working with CFC charts for S7 > "Chart sequence & extras" editor for S7"

Trial license

If you do not have a valid license, the system alerts you that you are working in a non-licensed mode.

You have the one-time option of activating a Trial License.

However, this Trial License is valid for a limited period only and expires after 21 days.

Licenses for SIMATIC STEP 7 CFC V21.0

License	Display in the Automation Licence Manager	Comment
SIMATIC STEP 7 CFC V21.0 Software Media Package	SIMATIC STEP 7 CFC Advanced 21.0	Trial license The license is already included in the TIA Portal installation.
SIMATIC STEP 7 CFC 21.0 Advanced Engineering	SIMATIC STEP 7 CFC Advanced 21.0	Engineering license

License	Display in the Automation Licence Manager	Comment
SIMATIC STEP 7 CFC Runtime CPU (limited)	-	Runtime license: • Unlimited runtime • Limited number of instance DBs
SIMATIC STEP 7 CFC Runtime CPU (unlimited)	-	Runtime license: • Unlimited runtime • Unlimited number of instance DBs

More information

Online catalog (Industry Mall)

- Internet: "STEP 7 (TIA Portal) options: STEP 7 CFC (TIA Portal)" (https://mall.industry.siemens.com/mall/en/WW/Catalog/Products/10414342?tree=CatalogTree)

TIA Portal Information System

- "Installation > Licensing"

Automation License Manager (ALM)

To open the manual, in the Windows program group "Siemens Automation", select the entry "Documentation".

The "Manuals" folder contains the link to the manual in the respective language folder.

General information about SIMATIC STEP 7 CFC

6

Content

The information in this Readme file supersedes statements made in other documents.

- Important information on product properties
- Information that could no longer be included in the online help.

Read the following notes carefully because they include important information for installation and use.

Read these notes prior to installation.

TIA Portal projects: Restrictions

The following functions are not supported when using CFC in the TIA Portal:

- Software units
  Do not create software units on controllers for which CFC charts are configured.
  The configuration of software units can lead to the TIA Portal project no longer being compiled for this controller.
- UMAC-protected projects
- Downloading blocks generated by CFC from the device
- Load CFC charts on memory cards
- Interconnect PLC tags with complex data types

Global data blocks in CFC

To improve performance, create the block structure for global data blocks according to TIA Portal recommendations.

More information:

- Industry Online Support: "How can you program efficiently and performantly in STEP 7 (TIA Portal) for the S7-1200/S7-1500?" (https://support.industry.siemens.com/cs/ww/en/view/67582299)
- Industry Online Support: "Programming guideline and style guide for SIMATIC S7-1200 and S7-1500" (https://support.industry.siemens.com/cs/ww/en/view/81318674)

CAUTION

Avoid changing the structure

When interconnecting global data blocks in CFC, the following constraints apply:

- Avoid subsequent modification of interconnected global data blocks.
- Avoid changing the structure of global data blocks.
  Loading after a structure change causes the PLC to stop.
  Download of changes during operation is not possible.

Password: No authorization, no know-how protection of the charts

To protect a CFC chart or hierarchical CFC chart from unintentional editing, you can protect the chart with a password.

NOTICE

Activating password for CFC chart

The password serves only to protect a CFC chart from unintentional editing.

This type of access protection is not intended to increase the access security.

The password does not offer:

- Protection against unauthorized access to know-how in CFC charts
- Security-relevant authorization for access to CFC charts

Instructions: "LBCFC" library for download

The "LBCFC" block library supplements the instruction library that is installed with SIMATIC STEP 7 CFC as of V17.

More information:

- Industry Online Support: SIMATIC STEP 7 CFC V17 - "LBCFC" block library (ID 109800972) (https://support.industry.siemens.com/cs/ww/en/view/109800972)

Instructions: No version update

Always use the current version of the application library.

After the first import of an instruction in CFC you can no longer change the version. All further instances of the instruction are created with the same version.

When you change an instruction version in the library later, the instruction is marked as "not supported" with an asterisk.

Function blocks (FB): No renaming after creating instances

When you change the name of a function block with instances, the connection to the instances is lost.

Compiling the CFC chart is then no longer possible.

To rename a function block, proceed as follows:

1. Remove all instances of the function block from the CFC charts.
2. Use the "Delete unused blocks" function in the "Chart sequence and extras" editor.
3. Change the function block name.
4. Create and interconnect the necessary instances in the CFC charts.

GRAPH blocks: Using only in a block shell

You cannot insert GRAPH blocks as instances in a CFC chart. Any change of a GRAPH block would then eliminate the ability to perform an online delta download and would require a complete download in CPU Stop.

To work with a GRAPH block in CFC, create an organization block (OB) that uses a GRAPH block.

Even if you change and re-initialize the GRAPH block, you can then update the CPU in runtime using a delta download.

Using an FB as a call block

If, for example, a GRAPH block affects the CFC run sequence, create a function block (FB) as a "call block" that calls an instance of the GRAPH block.

If input parameters and output parameters have been configured at the call block, you can pass these values to the called instance of the GRAPH block.

Ensure that the interface of the GRAPH block is no longer changed. Interface changes eliminate the ability to perform an online delta download.

Procedure:

1. Create a GRAPH block.
2. To create an instance of the GRAPH block, create a new data block (DB).
3. Select the GRAPH block as "Type".
4. Create a function block (FB) as call block.
5. In the FB, configure the call of the DB that you have created as the GRAPH instance.
6. To exchange values with the called GRAPH instance, configure the corresponding input parameters and output parameters at the FB.
7. Drag the FB into your CFC chart.
   The FB instance in the CFC chart gives you access to the called instance of the GRAPH block.

Data types

Data types supported to a limited extent

The following data types of the S7-1500 are supported to a limited extent:

- ARRAY
  All data types are permitted for the ARRAY components, except:
  - ARRAY
  - Reference data types:
    Pointer: ANY, POINTER, VARIANT
    Parameter types: COUNTER, TIMER

  More information in the TIA Portal Information System:
  "Configuring CFC charts > Data types in CFC > Compound data types > ARRAY".
- VARIANT
  No blocks with output parameters of the VARIANT data type

Unsupported data types

The following data types of the S7-1500 are not supported:

- WString
  Exception: The WString data type is used with OPC UA.
- Block_FB
- Block_FC

Type-safe data block with elements of type "ARRAY": Do not change access mode

Avoid changing the access mode to standard access for type-safe data blocks with optimized access that are linked to a function (FC) via the "ARRAY" data type.

If necessary, create a new, non-type-safe block without optimized access and relink the parameters.

Complex data types (STRUCT / UDT with arrays): Interconnect all parameters

To avoid inconsistencies, interconnect all parameters when you use blocks with complex data types:

- Data type STRUCT with arrays
- User-defined PLC data types (UDT) with arrays

To avoid nested arrays as far as possible, check the correct interconnection before compiling or serializing the block.

Do not use STRUCT data types and UDTs with multiple lower-level arrays, as these can cause inconsistencies in the project.

Do not change internal CFC blocks

CFC creates system blocks that are displayed in a number of views or lists, for example, under "Program information".

You may not change these objects.

Only edit your own blocks and instructions using the STEP 7 editors.

Saving blocks with internal alarms

When you use blocks with internal alarms, always save the project before and after each of these actions:

- Creating a block instance
- Copying the block

Multiuser Engineering

Alarm blocks / blocks with alarms: Create instances only in the server project

When you use alarm blocks or blocks with messages, always create the instances in the server project.

Procedure:

1. Create the alarm block or block with alarms under "Program blocks".
2. Check in the changes to the project server.
3. Compile and download the server project.
4. Update the local session.
5. Open the CFC charts in the server project.
6. Create the block instances.

Function blocks (FB) with internal FB calls: Sequence for checking in

When you use function blocks that call other function blocks, follow this sequence for checking in:

1. Check in the FBs that are called from a parent FB.
2. Check in the parent FBs that contain the internal call.

When a parent FB is created, the target of the internal call must already exist.

Redundant CPUs: Downloading changes

You can only download changes in CFC to the redundant CPU that was also used for the previous download. The time stamps are compared internally for this purpose.

Take this special feature into account, especially when switching over the redundant partner and when using the "Download to backup CPU" function.

"Download to backup CPU"

Once you have executed the "Download to backup CPU" function, you can no longer download the changed CFC data to the primary CPU. After loading the backup CPU, the primary CPU has an outdated time stamp.

To download CFC changes, switch the roles of the primary CPU and backup CPU.

More information in the TIA Portal information system:

- "Editing devices and networks > Configuring devices and networks > Creating configurations > Configuring automation systems > Principle of operation of S7-1500R/H CPUs > Loading an S7-1500R/H CPU > Downloading project data to the backup CPU"

Readback: Not possible for PLC with access protection

The "Readback" function is not possible when password protection is enabled for the PLC. Currently, no passwords can be entered during readback.

Alternative procedures:

- Perform a manual synchronization.
- Temporarily disable the access protection for the readback.

Full compilation: Reinitialization of runtime values

When you perform a full compilation of the CPU, a subsequent delta download may result in reinitialization of runtime values, e.g. in instances of functions (FCs).

However, the runtime values are retained in instances of function blocks (FBs).

Deleting CFC charts and disabling CFC

When you delete all CFC charts, the option "SIMATIC STEP 7 CFC" remains active in the TIA Portal.

Downloading to the PLC therefore causes the project to be saved.

To disable CFC in the TIA Portal, delete all CFC components:

1. Select the entry "Charts" in the project tree.
2. Select the "Delete" entry from the shortcut menu and confirm with "OK".
   The full contents of the "Charts" folder are deleted.
3. To re-enable the "CFC" option, double-click the entry "Add new chart" under "Charts".

Migration in TIA Portal as of V21

As of TIA Portal V21, neither classic projects nor intermediate migration files can be migrated.

Migration for the following projects is no longer supported:

- STEP 7 Classic
- WinCC flexible
- WinCC V7
- Integrated projects

For the migration, use either the integrated migration function of TIA Portal V14 to V16 or the external migration tool for TIA Portal V17 to V20. Then perform a project upgrade.

More information:

- TIA Portal Information System: "Migrating projects and programs > Overview of migration options"

Tooltips in the sheet bar: Avoid overlaps

Tooltips may show the complete interconnection path for interconnections in the sheet bar of the data flow.

These tooltips can impede editing of the interconnection path because they are shown over the text box.

To avoid this behavior when editing long interconnection paths, increase the zoom factor for the view of the CFC chart to over 100%.

This also zooms in on the input boxes in the chart and in the sheet bar. At 200%, input boxes in the sheet bar are enlarged up to the edge of the area.

The text size in the input box is not affected by the zoom factor. The larger input boxes therefore allow convenient editing of even long interconnection paths.

Disabling tooltips

Alternatively, disable tooltips in the TIA Portal settings:

- "General > General settings > Tooltips: Show truncated texts completely"

See also

Notes on exporting/importing CFC charts (TIA Portal Openness) (Page 23)

Notes on exporting/importing CFC charts (TIA Portal Openness)

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Notes on CFC Openness applications

Openness: "filter" parameter

The "filter" parameter is not evaluated during export and import in the current CFC version and has no function.

Openness: No import or export in online mode

Export and import via TIA Portal Openness API or the "Import / Export CFC" dialog is not supported in online mode.

Recommendation:

- To avoid inconsistencies in the project, save all changes in the project before starting the import or export.

Openness: Error message when importing

If the import using the TIA Portal Openness API is aborted with an error message regarding the work memory, check the work memory on the PC.

If necessary, increase the work memory according to the hardware requirements for large projects:

- RAM: 32 GB for large projects

See also

General information about SIMATIC STEP 7 CFC (Page 15)

Industry Online Support: "SIMATIC Process Control System PCS 7 Help on data transfer dialog" (https://support.industry.siemens.com/cs/ww/en/view/109812471)

Checking integrity

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8.1 Basic information about the integrity check

Introduction

It is important to check the integrity and authenticity of the installation source and the installed products to ensure that no modified files are present.

Siemens supplies the following two validators as command line tools:

- Integrity Validator
  The Integrity Validator is used to check the setup files of an installation source, i.e. an installation medium or downloaded software packages, for modifications.
  This validator is executed automatically at the beginning of an installation.
  The Integrity Validator is not installed on your system. You will find it in the installation source in the "IntegrityValidator" directory. From there, you can run it to perform an integrity check manually.
  You can use the "appsettings.json" configuration file to specify the path to the setup files.
- Installation Integrity Validator
  The Installation Integrity Validator is installed together with every Siemens product bundle that supports the software integrity check.
  Unlike the Integrity Validator, the Installation Integrity Validator is not executed automatically. You can run it yourself at any time to check the integrity of your system.
  If your system is connected to the Internet, it is recommended that you repeat this check at a certain time interval.

Both validators create a validation report during validation, in which you can see whether the integrity check was successful or failed.

If the integrity check fails, you can see the possible reasons in the report.

More information on the topic of cybersecurity can be found online in the TIA documentation portal in the following document:

- Cybersecurity in the TIA Portal (https://docs.tia.siemens.cloud/access?ft:clusterId=cybersec_000011&;ft:locale=en-US)

See also

Cybersecurity in the TIA Portal Secure installation (FT) (https://docs.tia.siemens.cloud/access?ft:clusterId=cybersec_000011&;ft:locale=en-US)

8.2 Performing an integrity check

With the two validators "Integrity Validator" and "Installation Integrity Validator", you can check the integrity of the setup files before installation and of your system at any time after installation.

Before you check your system with the Installation Integrity Validator, you should first ensure that it has been installed correctly.

With the Integrity Validator, you have the option of customizing the path to the setup files. This is only necessary if you want to place the Integrity Validator outside the installation source.

Both validators have their own help, which you can call up in the command line with "-h" or "--help". This describes, for example, possible commands and the exit codes.

Changing the path to the setup files

To change the path to the setup files, follow these steps:

1. Open Windows Explorer and navigate to the "IntegrityValidator" directory.
2. Open the "appsettings.json" file in a text editor.
3. Enter the desired path under "InputDirectory" at "Path".
4. Save the file.
   During validation, the Integrity Validator checks the setup files that it finds under the specified path.

Checking setup files with the Integrity Validator

To check the setup files with the Integrity Validator, follow these steps:

1. Open the Windows command prompt.
2. Navigate to the "IntegrityValidator" directory.
   This directory is in the installation source by default. If you have stored it somewhere else, go to that location.
3. To check the setup files, enter the following command:
   - `IntegrityValidator.exe validate`

   The validation is performed and the result is displayed together with the exit codes.

Checking the installation of the Installation Integrity Validator

To ensure that the Installation Integrity Validator has been installed correctly on your system, follow these steps:

1. Open the Windows command prompt.
2. Enter the following command:
   - `cd %COMMONPROGRAMFILES%\Siemens\Automation\Installation Integrity Validator\InstallationIntegrityValidator.exe --version`
3. Confirm the entry with <Return>.
   If the Installation Integrity Validator is installed correctly, the installed version of the tool will be displayed.

Checking the integrity of the system with the Installation Integrity Validator

To check the integrity of your system with the Installation Integrity Validator, follow these steps:

1. Open the Windows command prompt.
2. To start the validation, enter the following command:
   - `cd %COMMONPROGRAMFILES%\Siemens\Automation\Installation Integrity Validator\InstallationIntegrityValidator.exe validate <if necessary, further options>`
3. Confirm the entry with <Return>.
   The validation is performed and the result is displayed together with the exit codes.
   See also: AUTOHOTSPOT

8.3 Error cases during the integrity check

After the integrity check is performed with the Integrity Validator or the Installation Integrity Validator, the result of the validation is displayed.

The colors of the texts have the following meanings:

Green	Successful validation
Light blue	Information
Red	Validation errors and other error messages.
Yellow	Alarms

Possible error cases with suggested solutions

The following table shows the possible error cases with suggested solutions:

Error case	Suggested solution
Files missing	Reinstall the setup bundle that provided these files.
Additional files present	Delete the additional files.
Modified files present	Delete the modified files and reinstall the setup bundle that provided these files.
The catalog files for a directory were not found.	Reinstall the setup bundle that provided these files.
The installation directory for a product has not been found.	Contact the Siemens help desk and provide the installation logs.
The installation directory information for a product could not be retrieved.	Contact the Siemens help desk and provide the installation logs.
The self-check/integrity check for the CLI itself has failed for the Installation Integrity Validator. This means that the EXE file or the dependent assembly has been manipulated or is missing.	Reinstall the setup bundle to obtain a correct version of the Installation Integrity Validator.
Incorrect use of the "validate" command. Multiple verbosity modes have been specified.	Only one verbosity mode can be specified together with the "validate" command ("-v" or "-d"). Multiple verbosity modes are not allowed.

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