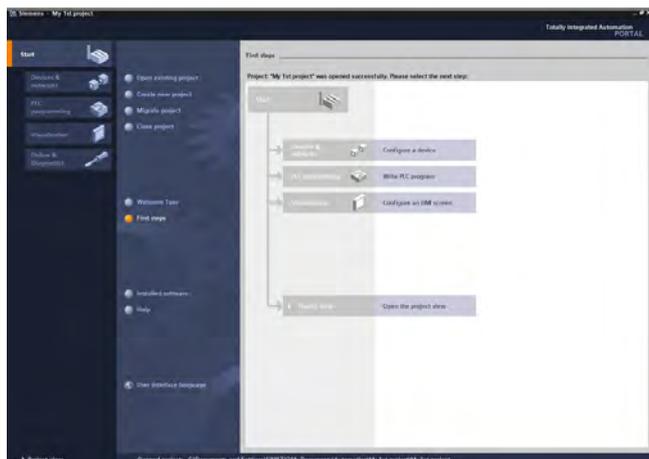


Software for SIMATIC Controllers

TIA Portal

TIA Cloud Services

Overview



TIA Portal Cloud enables the use of the TIA Portal software in a virtualized cloud environment. No local installation of the software is required. Local projects can be transferred to the cloud via a file share service and also loaded back.

TIA Portal Cloud includes the major versions of TIA Portal and the main option packages of these versions.

Licensing

TIA Portal Cloud is offered as a subscription and certificate. This increases flexibility and enables a low-cost entry compared to the classic license model.

- With the pay-per-use variant, the actual usage time is booked on an hourly basis and billed at the end of the month.
- The monthly subscription offers unlimited use within one month. The subscription is automatically renewed for a further month unless it is canceled before the end of the contract period.
- In addition to unlimited use of TIA Portal Cloud, the annual subscription provides free access to "SITRAIN access - the digital learning platform".
- The 365-day certificate is a Certificate of Contract (CoC) with a fixed term of 365 days and is not automatically renewed. A PDF with the information on how to activate the TIA Portal Cloud access is supplied.
- The 100-hour certificate is a Certificate of License (CoL) with a 100-hour credit. A PDF with the information on how to activate the TIA Portal Cloud access is supplied.

More information

More information is available on this at <https://support.industry.siemens.com/cs/ww/en/view/109794456>.

Ordering data

Article No.

TIA Cloud Services

TIA Portal software packages for use in a virtual cloud environment without local installation. Can only be ordered via SiePortal. Consignee email address required for delivery

TIA Portal Cloud – pay-per-use

Only available via Industry Mall. Consignee email address required for delivery.

For this service, the following T&Cs apply exclusively <https://www.siemens.com/premiumdocs>
 (i) Documentation and Supplemental Terms for the Subscription to free accessible services of Industry Premium Portal – Basic Services,
 (ii) Documentation and Supplemental Terms for the Subscription to the TIA Portal Cloud and
 (iii) Universal Customer Agreement.

6ES7804-0CP41-3YA0

TIA Portal Cloud – monthly subscription

Only available via Industry Mall. Consignee email address required for delivery.

For this service, the following T&Cs apply exclusively <https://www.siemens.com/premiumdocs>
 (i) Documentation and Supplemental Terms for the Subscription to free accessible services of Industry Premium Portal – Basic Services
 (ii) Documentation and Supplemental Terms for the Subscription to the TIA Portal Cloud and
 (iii) Universal Customer Agreement.

6ES7804-0CP41-2YA0

TIA Portal Cloud – annual subscription incl. SITRAIN access

Your benefit:
 In addition to use of TIA Portal Cloud, you receive free access to SITRAIN access - the digital learning platform. Your engineering environment and know-how are always up to date, thanks to cloud technology anywhere at any time.

Consignee email address required for delivery.

The specific terms under <https://www.siemens.com/premiumdocs> apply exclusively

6ES7804-0CP41-1YA0

TIA Portal Cloud – 365-day certificate

You will receive a Certificate of Contract to unlock TIA Portal Cloud for 365 days, starting from the date of delivery. This subscription ends automatically.

Contents: Certificate of Contract (CoC)

Consignee email address required for delivery.

The specific terms under <https://www.siemens.com/premiumdocs> apply exclusively

6ES7804-0CP41-1YA8

Software for SIMATIC Controllers

TIA Portal

TIA Cloud Services

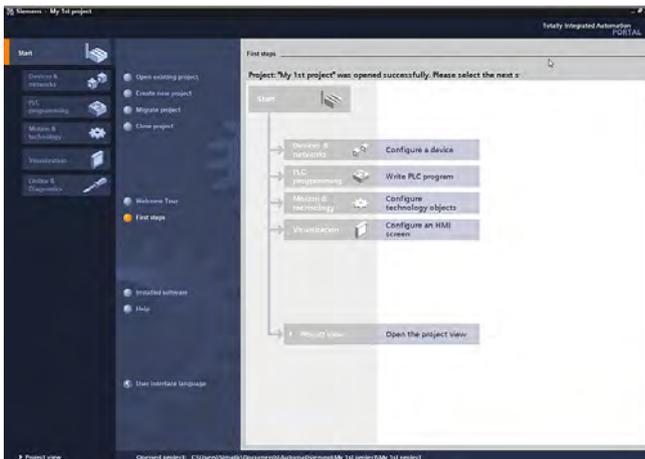
| Ordering data | Article No. | | Article No. |
|--|----------------------------------|---|----------------------------------|
| <p>TIA Portal Cloud – 100-hour certificate</p> <p>TIA Portal Cloud, 100 hours credit. You will receive a Certificate of License with a 100-hour credit. The credit is valid for 365 days, starting from the date of delivery.</p> <p>Contents: Certificate of License (CoL)</p> <p>Consignee email address required for delivery.</p> <p>The specific terms under https://www.siemens.com/premiumdocs apply exclusively</p> | <p>6ES7804-0CP41-3YA8</p> | <p>TIA Simulation Cloud – 50 hours for 3D simulation player</p> <p>You receive a Certificate of License with 50 hours of credit for 3D simulation engineering. The credit is valid for 365 days, starting from the date of delivery.</p> <p>Contents: Certificate of License (CoL)</p> <p>Consignee email address required for delivery.</p> <p>The specific terms under https://www.siemens.com/premiumdocs apply exclusively</p> | <p>6ES7804-0VP41-3BA8</p> |
| <p>TIA Simulation Cloud – 50 hours for 2D simulation engineering</p> <p>You receive a Certificate of License with 50 hours of credit for 2D simulation engineering. The credit is valid for 365 days, starting from the date of delivery.</p> <p>Contents: Certificate of License (CoL)</p> <p>Consignee email address required for delivery.</p> <p>The specific terms under https://www.siemens.com/premiumdocs apply exclusively</p> | <p>6ES7804-0VP41-3AA8</p> | | |

Software for SIMATIC Controllers

TIA Portal
PLC programming

STEP 7 Basic (TIA Portal)

Overview



STEP 7 Basic V20 (TIA Portal), portal view



STEP 7 Basic V20 (TIA Portal), device view: Configuring and parameterizing in realistic photo-quality representation

Intuitive, efficient and future-oriented - the engineering software for programming SIMATIC Controllers

SIMATIC STEP 7 Basic V20 is the engineering system for the SIMATIC S7-1200.

STEP 7 Basic V20 is based on the Totally Integrated Automation Portal (TIA Portal) central engineering framework which offers users a uniform, efficient and intuitive solution to all automation tasks.

New with V20

- Configuration and programming of the new SIMATIC S7-1200 G2 controller generation.
- STEP 7 Safety Basic V20 for configuration and programming of the fail-safe S7-1200 controllers is integrated.
- SIMATIC source documents: New export format for LAD blocks; LAD blocks, data blocks, and PLC data types (UDT) can be exported in the easy-to-read SIMATIC SD text format. This format has the following advantages, for example: Compatibility and versioning capability, support integration with popular version control systems such as Git, automation of engineering workflows, use of external comparison tools
- Font setting; Setting the font now applies to the general text boxes of the block programming: Block title and comment, and network title, and comment. The font and font size for the program code of SCL blocks can now also be specified. By selecting a monospace font, program code or comments can now be better structured.
- Sorting in the PLC variable table; In the filter view of the PLC variable table, sorting is now performed on the alphanumeric principle. In the normal view of the PLC variable table, the lexicographical principle is retained.

Licensing

- STEP 7 Basic V20 is supplied with a floating license. The floating license allows the software to be used on any number of computers. This means one user per license can use the software independently of the computer used and without being tied to a specific workstation. The number of licenses acquired determines the number of computers on which the software can be used simultaneously.
- With the STEP 7 Basic V20 license, the following products can also be used:
 - STEP 7 Safety Basic V20 for configuration and programming of the fail-safe S7-1200 controllers
 - S7-PLCSIM V20 for simulation of S7-1200 controllers
 - WinCC Unified Basic V20 for configuration of SIMATIC Unified Basic Panels
- Existing STEP 7 Basic licenses of versions V11-19 can be upgraded to V20. This requires an upgrade license.
- The STEP 7 Basic V20 license can be upgraded to a STEP 7 Professional V20 license with a PowerPack.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager under <http://www.siemens.com/simatic-licenses>.

Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 Basic (TIA Portal)

| Ordering data | Article No. | Article No. |
|--|--------------------|--|
| STEP 7 Basic V20 Target system: SIMATIC S7-1200, S7-1200 G2 Requirement: Windows 10 (64-bit) <ul style="list-style-type: none"> • Windows 10 Home Version 22H2 • Windows 10 Professional Version 22H2 • Windows 10 Enterprise Version 22H2 • Windows 10 Enterprise 2019 LTSC & 2021 LTSC Windows 11 (64-bit) <ul style="list-style-type: none"> • Windows 11 Home Version 22H2 & 23H2 • Windows 11 Professional Version 22H2 & 23H2 • Windows 11 Enterprise 22H2 & 23H2 Windows Server (64-bit) <ul style="list-style-type: none"> • Windows Server 2019 Standard (full installation) • Windows Server 2022 Standard (full installation) Type of delivery: 9 languages: en, de, zh included, fr, sp, it, ru, ja, ko as download | | Software Update Service For a period of 12 months and for a fixed price, the customer is automatically provided with all upgrades and Service Packs for each installed software package. The contract is automatically extended by a further year unless canceled at least 12 weeks prior to expiration. Requires the current software version |
| STEP 7 Basic V20, floating license | 6ES7822-0AA24-0YA5 | |
| STEP 7 Basic V20, floating license, software download including license key¹⁾ Consignee email address required for delivery | 6ES7822-0AE24-0YA5 | |
| Upgrade from STEP 7 Basic V11...V19 to STEP 7 Basic V20, floating license | 6ES7822-0AA24-0YE5 | |
| Upgrade from STEP 7 Basic V11...V19 to STEP 7 Basic V20, floating license, software download incl. license key¹⁾ Consignee email address required for delivery | 6ES7822-0AE24-0YE5 | |
| PowerPack STEP 7 Basic V20 to STEP 7 Professional V20, floating license, software download including license key¹⁾ Consignee email address required for delivery | 6ES7822-1AE23-0YC5 | |
| | | Software Update Service (Standard Edition)²⁾ The delivery is implemented according to the number of ordered SUS products (e.g. 10 upgrade packages with 10 DVDs, 10 USB flash drives, etc.) <ul style="list-style-type: none"> • STEP 7 Basic 6ES7822-0AA00-0YLO |
| | | Software Update Service (Compact Edition)²⁾ The delivery items are combined. For several contracts, only 1 package with 1 data storage medium set, 1 USB flash drive with the corresponding number of licenses and the corresponding number of CoLs will be supplied. Delivery items to be combined must be ordered as one item. <ul style="list-style-type: none"> • STEP 7 Basic 6ES7822-0AA00-0YMO |
| | | Software Update Service (Download)²⁾ Upgrades and Service Packs are available for downloading. Consignee email address required for delivery <ul style="list-style-type: none"> • STEP 7 Basic 6ES7822-0AE00-0YY0 |

¹⁾ Up-to-date information and download availability can be found at <http://www.siemens.com/tia-online-software-delivery>.

²⁾ For more information on the Software Update Service, see page 12/2.

Software for SIMATIC Controllers

TIA Portal
PLC programming

STEP 7 Basic (TIA Portal)

Technical specifications

| STEP 7 Basic V20 (TIA Portal) | |
|--------------------------------|--|
| Type of license | Floating license |
| Software class | A |
| Current version | V20 |
| Target system | SIMATIC S7-1200, S7-1200 G2 |
| Operating systems | Windows 10 (64-bit) <ul style="list-style-type: none"> Windows 10 Home Version 22H2 Windows 10 Professional Version 22H2 Windows 10 Enterprise Version 22H2 Windows 10 Enterprise 2019 LTSC & 2021 LTSC Windows 11 (64-bit) <ul style="list-style-type: none"> Windows 11 Home Version 22H2 & 23H2 Windows 11 Professional Version 22H2 & 23H2 Windows 11 Enterprise 22H2 & 23H2 Windows Server (64-bit) <ul style="list-style-type: none"> Windows Server 2019 Standard (full installation) Windows Server 2022 Standard (full installation) |
| Recommended PC hardware | |
| Computer | SIMATIC IPC MD-57A (successor of the Field PG M6) or comparable PC |
| Processor | Intel® Core™ i5 - 12600HE processor (16 threads, 18 MB cache, up to 4.50 GHz) |
| RAM | 16 GB or more (min. 8 GB, 32 GB for large projects) |
| Hard disk | SSD with at least 50 GB storage space available |
| Network | 1 Gbit (for multi-user) |
| Screen | 15.6" full HD display (1920 x 1080 or higher) |

Compatibility with other products and operating systems

STEP 7 V20 can be installed on a PC in parallel with other versions of STEP 7 V13 SP2 to V19, STEP 7 V5.6 or higher. More information on compatibility is available at <https://support.industry.siemens.com/cs/ww/en/view/64847781>

As of TIA Portal project version V13 SP1, projects can be directly upgraded to V20. Upgrading of projects from previous project versions (V11 ... V13) is carried out on the basis of the TIA Portal products (e.g. STEP 7) used in the project in version V13 SP1 or V13 SP2 (latest update recommended).

Important note

TIA Portal project versions V13 SP1... V19 are upgraded with TIA Portal V20 to the project version V20. If you need to edit a TIA Portal project version V13 SP1... V19, we recommend an additional installation of the corresponding software to TIA Portal V20. The license purchased for V20 is also valid for all older TIA Portal versions.

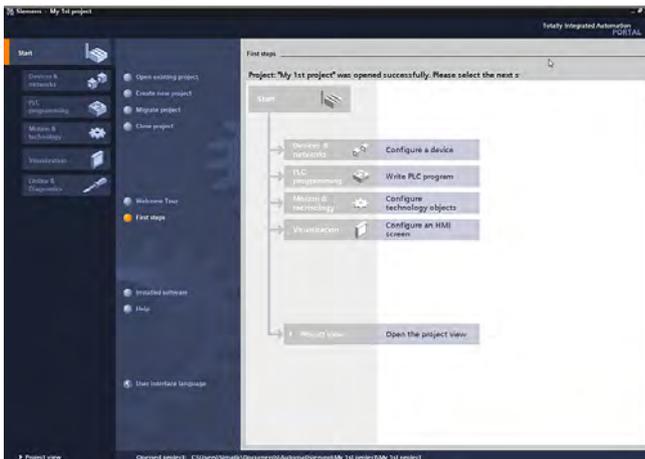
Program code and hardware configuration from STEP 7 V5.4 SP5 or higher can be migrated directly to a TIA Portal V20 project with STEP 7 V20.

Software for SIMATIC Controllers

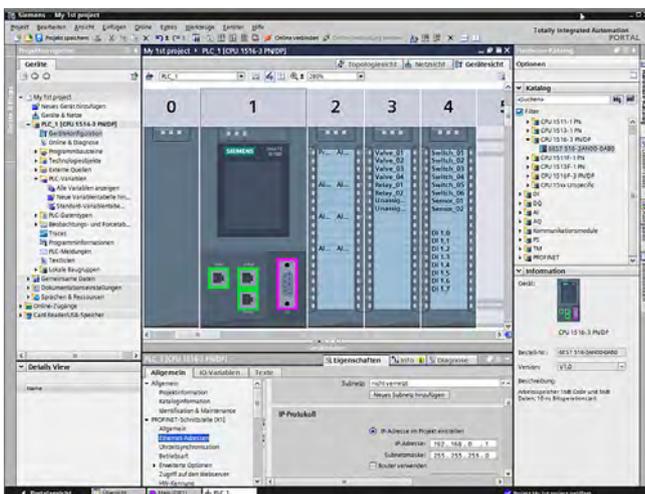
TIA Portal
PLC programming

STEP 7 Professional (TIA Portal)

Overview



STEP 7 Professional V20 (TIA Portal), portal view



STEP 7 Professional V20 (TIA Portal), device view: Configuring and parameterizing in realistic photo-quality representation

Intuitive, efficient and future-oriented - the engineering software for programming the SIMATIC Controllers

SIMATIC STEP 7 Professional V20 is the engineering system for the SIMATIC S7-1200, S7-1500, S7-300, S7-400 Controllers, WinAC and Software Controllers.

STEP 7 V20 is based on the Totally Integrated Automation Portal (TIA Portal) central engineering framework which offers users a uniform, efficient and intuitive solution to all automation tasks.

New in V20

- Configuration and programming of the new SIMATIC S7-1200 G2 controller generation
- STEP 7 Safety Basic V20 for configuration and programming of the fail-safe S7-1200 controllers is integrated
- SIMATIC Source Documents: New export format for LAD blocks, data blocks, and PLC data types (UDT) can be exported in an easy-to-read SIMATIC SD text format. This format has the following advantages, for example: Compatibility and versioning capability, support integration with popular version control systems such as Git, automation of engineering workflows, use of external comparison tools
- Named value data types (S7-1500):
 - Online monitoring: Named value data types can now be monitored ONLINE in code and data blocks, as well as in monitoring and force tables.
 - Use as types in libraries: Named value data types can be used as types in global libraries and project libraries.
 - Transferring namespace to subordinate elements: If the namespace of a software unit is changed, the change can now be transferred to subordinate named value data types. The "Apply namespace to underlying elements" button is available for this purpose.
 - Use in safety programs: The use of named value data types in safety programs is possible. From V20 onward, use in know-how-protected safety programs is also supported.
 - Block interface as text: Named value data types can now be used in the text block interface of an SCL device. Example: `myInt: nvtTrafficLight := nvtTrafficLight#GREEN;`
 - TIA Portal Openness: Named value data types can be exported and imported via the TIA Portal Openness interface.
- Nesting depth for structures (S7-1500): For CPUs of the S7-1500 series with firmware \geq V4.0, the nesting depth has been extended for the following elements:
 - PLC data types, variables of data type STRUCT, variables of data type ARRAY of STRUCT / ARRAY of UDT. Previously, the maximum nesting depth was 8 elements. Now up to 26 elements can be nested inside each other. An ARRAY of STRUCT/UDT requires 3 hierarchy levels each. If you use these data types, the maximum nesting depth is reduced accordingly.
- Font setting
 - Setting the font now applies to the general text boxes of the block programming: Block title and comment, and network title, and comment. The font and font size for the program code of SCL blocks can now also be specified. By selecting a monospace font, program code or comments can now be better structured.
- System data type ResolvedSymbol available for additional instructions (S7-1500):
 - Various instructions provide an extended range of functions. In addition to the VARIANT data type, the input parameter can also be supplied with a variable of the system data type ResolvedSymbol. The following instructions have been extended:

Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 Professional (TIA Portal)

Overview

- CountOfElements (LAD, FBD, IL/STL, SCL)
- IS_ARRAY (LAD, FBD, IL/STL, SCL)
- TypeOfElements (SCL)
- Sorting in the PLC variable table:
In the filter view of the PLC variable table, sorting is now performed on the alphanumeric principle. In the normal view of the PLC variable table, the lexicographical principle is retained.
- Changed loading behavior for software units:
The loading behavior of software units has been changed so that individual software units can now be loaded more easily, independently of other software units.
- Loading with synchronization (S7-1500 R/H):
S7-1500 R/H CPUS (firmware \geq V2.6) newly added to the project in V20 now offers automatic synchronization during loading. If it is discovered during loading that a project has been modified in the meantime by another user under Team Engineering, synchronization of the data to be loaded is automatically suggested. This ensures consistency within the project being worked on jointly and prevents unwanted overwrites
- Trace:
 - Named value data types in traces:
Named value data types can now be read directly from the time diagram. When named value data types are used in the recording, the values of the corresponding base data type are displayed.
 - Recording as a binary file for long-term trace and long-term project trace:
The recording is saved to a DAT file instead of to a CSV file.
 - Recording of events of technology objects in the trace recording:
Events in the trace recording can now be included that occur on a Motion Control technology object V9.0 or later during recording. The data is stored in a CSV file for analysis.
 - Cross-project trace:
Values from multiple projects can be recorded using a PN/PN coupler.
- Design of the innovative S7-1500 CPUs (higher performance and more memory).
- Wide range of extensions for Motion Control and T-CPUs, in the areas axis functions, synchronization functions, kinematics functions, and motion interpreters.
- Function extensions for TIA Portal Openness

Licenses

- STEP 7 Professional V20 is supplied with a STEP 7 Professional V20 floating license. The floating license allows the software to be used on any number of computers. This means one user per license can use the software independently of the computer used and without being tied to a specific workstation. The number of licenses acquired determines the number of computers on which the software can be used simultaneously.
- With the STEP 7 Professional V20 license, the following products can also be used:
 - STEP 7 Safety Basic V20 for configuration and programming of the fail-safe S7-1200 controllers
 - S7-PLCSIM V20 for the simulation of S7-1200 and S7-1500 controllers
 - WinCC Unified Basic V20 for configuration of SIMATIC Unified Basic Panels
- Existing STEP 7 Professional licenses of versions V11-19 can be upgraded to V20. This requires an upgrade license.
- The user receives a combo license when upgrading from STEP 7 V5.x. The combo license enables engineering to be performed both on the STEP 7 V5.x and the STEP 7 V20 platform.
- The STEP 7 Basic V20 license can be upgraded to a STEP 7 Professional V20 license with a PowerPack.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager under <http://www.siemens.com/simatic-licenses>.

Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 Professional (TIA Portal)

| Ordering data | Article No. | Article No. |
|---|--------------------|--|
| STEP 7 Professional V20 Target system: SIMATIC S7-1200, S7-1200 G2, S7-1500, S7-300, S7-400, WinAC Requirement: Windows 10 (64-bit) <ul style="list-style-type: none"> Windows 10 Professional Version 22H2 Windows 10 Enterprise Version 22H2 Windows 10 Enterprise 2019 LTSC & 2021 LTSC Windows 11 (64-bit) <ul style="list-style-type: none"> Windows 11 Professional Version 22H2 & 23H2 Windows 11 Enterprise Version 22H2 & 23H2 Windows Server (64-bit) <ul style="list-style-type: none"> Windows Server 2019 Standard (full installation) Windows Server 2022 Standard (full installation) Type of delivery: 9 languages: en, de, zh included, fr, sp, it, ru, ja, ko as download | | Upgrade STEP 7 Professional V11/2010...V16/2017 Combo to STEP 7 Professional V20/2021 SR3 Combo, floating license; Software download, incl. license key¹⁾ Consignee email address required for delivery 6ES7822-1AE24-0YE3 |
| | | PowerPack STEP 7 Professional V19 Trial 365 to STEP 7 Prof. V19, floating license. Only valid if ordered together with Software Update Service 6ES7 822-1AE00-0YY0 (STEP 7 Professional V1x) Prerequisite is a STEP 7 V19 Trial 365 license. License key download ¹⁾ Consignee email address required for delivery 6ES7822-1BE23-0YC5 |
| | | 50 hours of engineering with STEP 7 Professional V19, STEP 7 Professional 2021 SR2, WinCC Professional V19 (incl. WinCC flexible 2008) and STEP 7 Safety Advanced V19 (incl. Distributed Safety V5.4), floating license Software download incl. license key¹⁾ Consignee email address required for delivery 6ES7823-1GE23-0YA5 |
| STEP 7 Professional V20, floating license | 6ES7822-1AA24-0YA5 | |
| STEP 7 Professional V20, floating license, software download including license key¹⁾ Consignee email address required for delivery | 6ES7822-1AE24-0YA5 | |
| STEP 7 Professional V20/2021 SR3 Combo, floating license | 6ES7810-5CC17-0YA5 | |
| STEP 7 Professional V20/2021 SR3 Combo, floating license, software download incl. license key¹⁾ Consignee email address required for delivery | 6ES7810-5CE17-0YB5 | |
| Upgrade from STEP 7 Professional V11...19 to STEP 7 Professional V20 or STEP 7 Professional V17/2021 Combo...V19/2021 SR2 Combo to V20/2021 SR3 Combo, floating license | 6ES7822-1AA24-0YE5 | |
| Upgrade from STEP 7 Professional V11...19 to STEP 7 Professional V20 or STEP 7 Professional V17/2021 Combo...V19/2021 SR2 Combo to V20/2021 SR3 Combo, floating license software download, incl. license key¹⁾ Consignee email address required for delivery | 6ES7822-1AE24-0YE5 | |
| Upgrade from STEP 7 Professional V11/2010...V16/2017 Combo to STEP 7 Professional V20/2021 SR3 Combo, floating license | 6ES7822-1AA24-0YE3 | |
| | | PowerPack & upgrade from STEP 7 V5.7 to STEP 7 Professional V19/2021 SR2 combo, floating license Software download incl. license key¹⁾ Consignee email address required for delivery 6ES7822-1AE23-0XC5 |
| | | PowerPack & upgrade from STEP 7 V5.3...V5.6 to STEP 7 Professional V19/2021 SR2 combo, floating license Software download incl. license key¹⁾ Consignee email address required for delivery 6ES7822-1AE23-0XC3 |
| | | Software Update Service For a period of 12 months and for a fixed price, the customer is automatically provided with all upgrades and Service Packs for each installed software package. The contract is automatically extended by a further year unless canceled at least 12 weeks prior to expiration. Requires the current software version |

¹⁾ Up-to-date information and download availability can be found at <http://www.siemens.com/tia-online-software-delivery>.

Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 Professional (TIA Portal)

| Ordering data | Article No. | Ordering data | Article No. |
|--|---|---|----------------------------------|
| <p>Software Update Service (Standard Edition)²⁾</p> <p>The delivery is implemented according to the number of ordered SUS products (e.g. 10 upgrade packages with 10 DVDs, 10 USB flash drives, etc.)</p> <ul style="list-style-type: none"> • STEP 7 Professional in the TIA Portal • STEP 7 Professional and STEP 7 Professional in the TIA Portal | <p>6ES7822-1AA00-0YL5</p> <p>6ES7810-5CC04-0YE2</p> | <p>TIA Portal Cloud, monthly subscription.</p> <p>Only available via Industry Mall. Consignee email address required for delivery.</p> <p>For this service, the following T&Cs apply exclusively https://www.siemens.com/premiumdocs</p> <p>(i) Documentation and Supplemental Terms for the Subscription to free accessible services of Industry Premium Portal – Basic Services</p> <p>(ii) Documentation and Supplemental Terms for the Subscription to the TIA Portal Cloud and</p> <p>(iii) Universal Customer Agreement.</p> | <p>6ES7804-0CP41-2YA0</p> |
| <p>Software Update Service (Compact Edition)²⁾</p> <p>The delivery items are combined. For several contracts, only 1 package with 1 data storage medium set, 1 USB flash drive with the corresponding number of licenses and the corresponding number of CoLs will be supplied.</p> <p>Delivery items to be combined must be ordered as one item.</p> <ul style="list-style-type: none"> • STEP 7 Professional in the TIA Portal • STEP 7 Professional and STEP 7 Professional in the TIA Portal | <p>6ES7822-1AA00-0YM5</p> <p>6ES7810-5CC00-0YM2</p> | <p>TIA Portal Cloud and SITRAIN access, annual subscription.</p> <p>Your benefit:</p> <p>In addition to use of TIA Portal Cloud, you receive free access to SITRAIN access - the digital learning platform. Your engineering environment and know-how are always up to date, thanks to cloud technology anywhere at any time.</p> <p>Consignee email address required for delivery.</p> <p>The specific terms under https://www.siemens.com/premiumdocs apply exclusively</p> | <p>6ES7804-0CP41-1YA0</p> |
| <p>Software Update Service (Download)²⁾</p> <p>Upgrades and Service Packs are available for downloading.</p> <p>Consignee email address required for delivery</p> <ul style="list-style-type: none"> • STEP 7 Professional V1x • STEP 7 Professional and STEP 7 Professional in the TIA Portal | <p>6ES7822-1AE00-0YY0</p> <p>6ES7810-5CC04-0YY2</p> | <p>TIA Portal Cloud, 365-day subscription.</p> <p>You will receive a Certificate of Contract to unlock TIA Portal Cloud for 365 days, starting from the delivery date. This subscription ends automatically.</p> <p>Content: Certificate of Contract (CoC)</p> <p>Consignee email address required for delivery.</p> <p>The specific terms under https://www.siemens.com/premiumdocs apply exclusively</p> | <p>6ES7804-0CP41-1YA8</p> |
| <p>TIA Portal Cloud</p> <p>TIA Portal software packages for use in a virtual cloud environment without local installation. TIA Portal Cloud includes the main packages of the TIA Portal versions V15.1 and higher, as well as the most important option packages of these versions.</p> <p>Can only be ordered via SiePortal.</p> <p>Consignee email address required for delivery.</p> | | | |
| <p>TIA Portal Cloud, pay-per-use (hourly).</p> <p>Only available via Industry Mall. Consignee email address required for delivery.</p> <p>For this service, the following T&Cs apply exclusively https://www.siemens.com/premiumdocs</p> <p>(i) Documentation and Supplemental Terms for the Subscription to free accessible services of Industry Premium Portal – Basic Services,</p> <p>(ii) Documentation and Supplemental Terms for the Subscription to the TIA Portal Cloud and</p> <p>(iii) Universal Customer Agreement.</p> | <p>6ES7804-0CP41-3YA0</p> | | |

²⁾ For more information on the Software Update Service, see page 12/ 2.

Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 Professional (TIA Portal)

Technical specifications

| STEP 7 Professional V20 (TIA Portal) | |
|--------------------------------------|---|
| Type of license | Floating license |
| Software class | A |
| Current version | V20 |
| Target system | SIMATIC S7-1200, S7-1200 G2, S7-1500, S7-300, S7-400, WinAC, Software Controller |
| Operating systems | Windows 10 (64-bit) <ul style="list-style-type: none"> • Windows 10 Professional Version 22H2 • Windows 10 Enterprise Version 22H2 • Windows 10 Enterprise 2019 LTSC & 2021 LTSC Windows 11 (64-bit) <ul style="list-style-type: none"> • Windows 11 Professional Version 22H2 & 23H2 • Windows 11 Enterprise Version 22H2 & 23H2 Windows Server (64-bit) <ul style="list-style-type: none"> • Windows Server 2019 Standard (full installation) • Windows Server 2022 Standard (full installation) |
| Recommended PC hardware | |
| Computer | SIMATIC IPC MD-57A (successor of the Field PG M6) or comparable PC |
| Processor | Intel® Core™ i5 -12600HE processor (16 threads, 18 MB cache, up to 4.50 GHz) |
| RAM | 16 GB or more (min. 8 GB, 32 GB for large projects) |
| Hard disk | SSD with at least 50 GB storage space available |
| Network | 1 Gbit (for multi-user) |
| Screen | 15.6" full HD display (1920 x 1080 or higher) |

Compatibility with other products and operating systems

STEP 7 V20 can be installed on a PC in parallel with other versions of STEP 7 V13 SP2 to V19 and STEP 7 V5.6. More information on compatibility is available at <https://www.siemens.com/compatool>

As of TIA Portal project version V13 SP1, projects can be directly upgraded to V20. Upgrading of projects from previous project versions (V11 ... V13) is carried out on the basis of the TIA Portal products (e.g. STEP 7) used in the project in version V13 SP1 or V13 SP2 (latest update recommended).

Important note

TIA Portal project versions V13 SP1... V19 are upgraded with TIA Portal V20 to the project version V20. If you need to edit a TIA Portal project version V13 SP1... V19, we recommend an additional installation of the corresponding software to TIA Portal V20. The license purchased for V20 is also valid for all older TIA Portal versions.

Program code and hardware configuration from STEP 7 V5.4 SP5 or higher can be migrated directly to a TIA Portal V20 project with STEP 7 V20.

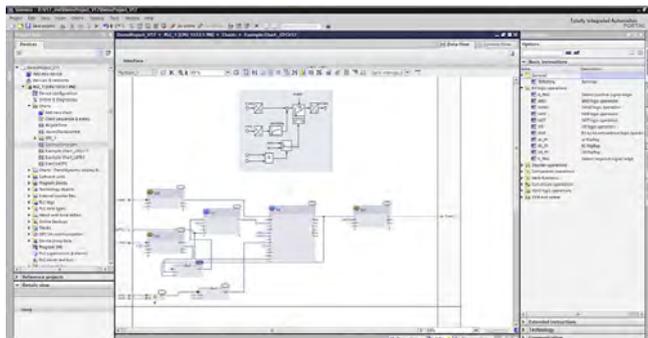
Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 (TIA Portal) options > SIMATIC STEP 7 CFC (TIA Portal)

Overview



- Creation of automation programs by drawing a technology chart
- Minimized outlay and reduced error susceptibility due to the interconnection of ready-made blocks
- Optimal integration in the TIA Portal automation world
- Released for the standard, T, TF and R/H CPUs of the SIMATIC S7-1500 automation system
- For more information on the supported hardware, see <https://support.industry.siemens.com/cs/ww/en/view/109971773>.

Licensing

- SIMATIC STEP 7 CFC requires an engineering license and a runtime license for each CPU.
- Engineering license: For configuration of CFC charts, a license key needs to be installed on the PC.
- Runtime licenses: A license key is required for each PLC. Depending on the number of instance data blocks created during configuration with CFC, a limited or unlimited license is required:
 - A limited license allows a limited number of instance DBs to be created and loaded into the PLC.
 - With an unlimited license, any number of instance DBs can be created and loaded.

Ordering data

SIMATIC STEP 7 CFC V20

Task:

Graphic configuring and programming of automation applications in the form of technology charts

Target system:

SIMATIC S7-1500

Requirement:

STEP 7 V20 or higher

Type of delivery:

Engineering software and electronic documentation on CD-ROM, license key on USB flash drive

Floating license

Article No.

6ES7658-1ET24-0YA5

Floating license for download.

6ES7658-1ET24-0YH5Email address required for delivery²⁾

Upgrade Advanced Engineering License V19.0 to V20.0

6ES7658-1ET24-0YE5Upgrade Advanced Engineering License V19.0 to V20.0
For download.**6ES7658-1ET24-0YK5**Email address required for delivery²⁾

Runtime license for 100 objects; one runtime license is required per PLC

6ES7658-1ET00-3YH5

Runtime license for an unlimited number of objects; one runtime license is required per PLC

6ES7658-1ET00-4YH5Software Update Service (requires current software version)¹⁾**6ES7658-1ET00-0YV8**

¹⁾ For more information on the Software Update Service, see page 12/ 2.

²⁾ Up-to-date information and download availability can be found under <http://www.siemens.com/tia-online-software-delivery>.

Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 (TIA Portal) options > SIMATIC STEP 7 CFC (TIA Portal)

Technical specifications

| Engineering tool | SIMATIC STEP 7 CFC |
|--------------------------|--|
| Current version | V20.0 |
| Software class | A |
| Application areas | |
| Can be used for | Graphical creation, interconnection and parameterization of (preconfigured) blocks and functions |
| Marketing message | Simply interconnect and configure instead of programming! |
| Advantages | <ul style="list-style-type: none"> • Can be used to optimum effect even during the design phase • Reduced configuration effort thanks to graphical interconnection • High degree of reusability of charts that have already been created • Quick and easy familiarization • Quick and transparent interconnection of preconfigured functions • Technological creation of the program as a whole • Clear representation of control loop structures • Comment fields with texts and images • Short commissioning time |
| Sectors | <ul style="list-style-type: none"> • Automobile engineering • Chemicals industry • Power engineering and supply • Rubber and plastics processing machines • Metalworking machines • Food and beverage machines • Petrochemicals • Rolling mills • Water industry • Coilers |

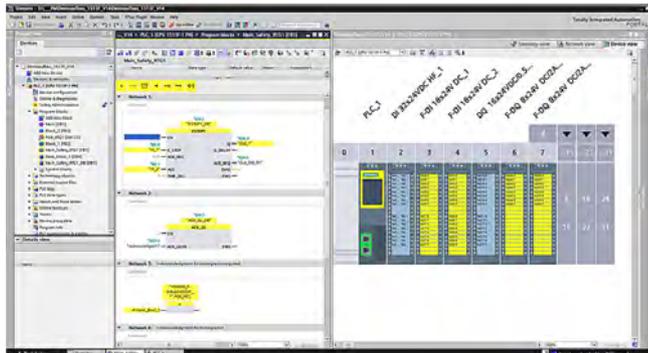
| Target systems | |
|------------------------------------|---|
| Can be used in | S7-1500 |
| System requirements | |
| Operating system | Windows 10 (64-bit) <ul style="list-style-type: none"> • Windows 10 Enterprise 2019 LTSC • Windows 11 (64-bit) • Windows 11 Enterprise 23H2 Windows Server (64-bit) <ul style="list-style-type: none"> • Windows Server 2019 Standard (full installation) • Windows Server 2022 Standard (full installation) |
| Required software | SIMATIC STEP 7 V20 or higher |
| Properties | |
| Monitoring tags | Yes |
| Controlling tags | Yes |
| Single-step processing | - |
| Integration in CFC | Yes |
| Program runtimes | |
| With S7-1500 (typical) | Depending on the interconnected blocks |
| Supported standards | |
| IEC 61131-3 | Based on the IEC standard |
| Status of PLCopen activities | - |
| Available versions/licenses | |
| Floating license | <ul style="list-style-type: none"> • 1 CD • 1 license key memory stick |

Software for SIMATIC Controllers

TIA Portal
PLC programming

STEP 7 (TIA Portal) options > STEP 7 Safety (TIA Portal)

Overview



STEP 7 Safety Advanced, configuration and programming

- For creating safety-related programs on the STEP 7 user interface
- For seamless and easy to use integration of safety-related functions into the standard automation
- All the required configuration and programming tools are integrated into the STEP 7 user interface and utilize a common project structure
- STEP 7 Safety Basic for parameter assignment and programming of the fail-safe S7-1200 Basic Controller. Included in STEP 7 license (no separate Safety license required)
- STEP 7 Safety Advanced option package for all fail-safe TIA SIMATIC controller classes (S7-1200, S7-1500, S7-1500 Software Controller, S7-1500V, S7-300, S7-400, WinAC)

Licensing

- The engineering software can be installed on multiple computers. The number of existing licenses determines the number of computers on which the software can be used simultaneously (floating license).
- STEP 7 Safety Basic is a subset of STEP 7 Safety Advanced for programming the fail-safe S7-1200 F Basic Controller.
- Combo licenses allow you to choose between programming with the predecessor product S7 Distributed Safety and STEP 7 Safety Advanced.
- An upgrade to a combo license is offered for the latest version of S7 Distributed Safety.
- Software Update Service (SUS) contracts can be concluded for STEP 7 Safety Advanced.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your software licenses with the Automation License Manager under <http://www.siemens.com/simatic-licenses>.

Ordering data

Article No.

STEP 7 Safety Advanced V20

Task:

Engineering tool for configuring and programming fail-safe user programs for SIMATIC S7-1200 FC, S7-1500F, S7-1500F Software Controller, S7-300F, S7-400F, WinAC RTX F, ET 200SP F Controller and the fail-safe I/O ET 200SP, ET 200MP, ET 200S, ET 200M, ET 200ISP, ET 200pro and ET 200eco

Requirement:

STEP 7 Professional V20

Note:

As of TIA Portal V16, the SIMATIC STEP 7 Safety software is an integral component of the SIMATIC STEP 7 product setup. The functionality of SIMATIC STEP 7 Safety is activated by means of the license key supplied in each case.

Floating license for 1 user;
license key on USB flash drive

6ES7833-1FA24-0YA5

Floating license for 1 user,
license key for download²⁾;
Email address required for delivery

6ES7833-1FA24-0YH5

STEP 7 Safety Advanced V20 Combo

Delivery includes STEP 7 Safety Advanced V20 and S7 Distributed Safety V5.4 SP5 Update 2

Floating combo license for 1 user;
software and documentation on DVD;
license key on USB flash drive

6ES7833-1FC24-0YA5

Floating combo license for 1 user;
software, documentation and license key for download²⁾;
Email address required for delivery

6ES7833-1FC24-0YH5

Software Update Service

Software Update Service (Standard Edition)¹⁾

The delivery is implemented according to the number of ordered SUS products (e.g. 10 upgrade packages with 10 DVDs, 10 USB flash drives, etc.). Requires the current software version.

6ES7833-1FC00-0YX2

Software Update Service (Compact Edition)¹⁾

The delivery items are combined. For several contracts, only 1 package with 1 data storage medium set, 1 USB flash drive with the corresponding number of licenses and the corresponding number of CoLs will be supplied. The deliveries that are to be grouped together must be ordered as a single item. Requires the current software version.

6ES7833-1FC00-0YM2

Minimum order quantity: 3 units

Software Update Service (Download)¹⁾

Requires the current software version.

6ES7833-1FC00-0YY0

Email address required for delivery

¹⁾ For more information on the Software Update Service, see page 12/ 2.

²⁾ Up-to-date information and download availability can be found under <http://www.siemens.com/tia-online-software-delivery>.

Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 (TIA Portal) options > STEP 7 Safety (TIA Portal)

| Ordering data | Article No. | Article No. |
|--|---|--|
| <p>STEP 7 Safety Advanced Upgrade</p> <p><u>Note:</u> As of TIA Portal V16, the SIMATIC STEP 7 Safety software is an integral component of the SIMATIC STEP 7 product setup. The functionality of SIMATIC STEP 7 Safety is activated by means of the license key supplied in each case.</p> <p>Upgrade from Distributed Safety V5.4 SP5 or STEP 7 Safety Advanced V11...V19 (Combo) to STEP 7 Safety Advanced V20 (Combo) for parallel use of the versions; upgrade of combo license for 1 user; license key on USB flash drive</p> <p>Upgrade from Distributed Safety V5.4 SP5 or STEP 7 Safety Advanced V11...V19 (Combo) to STEP 7 Safety Advanced V20 (Combo) for parallel use of the versions; upgrade of combo license for 1 user; license key for download²⁾; Email address required for delivery</p> | <p>6ES7833-1FA24-0YF5</p> <p>6ES7833-1FA24-0YY5</p> | <p>STEP 7 Safety Basic V19</p> <p><u>Task:</u> Engineering tool for configuring fail-safe user programs for SIMATIC S7-1200 FC</p> <p><u>Requirement:</u> STEP 7 Basic V19 or higher</p> <p><u>Note:</u> As of TIA Portal V16, the SIMATIC STEP 7 Safety software is an integral component of the SIMATIC STEP 7 product setup. The functionality of SIMATIC STEP 7 Safety is activated by means of the license key supplied in each case.</p> <p>Floating license for 1 user; license key on USB flash drive</p> <p>Floating license for 1 user; license key for download²⁾; Email address required for delivery</p> <p>6ES7833-1FB23-0YA5</p> <p>6ES7833-1FB23-0YH5</p> |
| <p>STEP 7 Safety Advanced PowerPack</p> <p>PowerPack STEP 7 Safety Basic V19 to STEP 7 Safety Advanced V19; floating license for 1 user; license key on USB flash drive</p> <p>PowerPack STEP 7 Safety Basic V19 to STEP 7 Safety Advanced V19; floating license for 1 user; license key for download²⁾; Email address required for delivery</p> | <p>6ES7833-1FA23-0YC5</p> <p>6ES7833-1FA23-0YJ5</p> | <p>STEP 7 Safety Basic Upgrade</p> <p><u>Note:</u> As of TIA Portal V16, the SIMATIC STEP 7 Safety software is an integral component of the SIMATIC STEP 7 product setup. The functionality of SIMATIC STEP 7 Safety is activated by means of the license key supplied in each case.</p> <p>Upgrade from STEP 7 Safety Basic V13 SP1...V18 to STEP 7 Safety Basic V19 for parallel use of the versions; upgrade license for 1 user; license key on USB flash drive;</p> <p>Upgrade from STEP 7 Safety Basic V13 SP1...V18 to STEP 7 Safety Basic V19 for parallel use of the versions; upgrade license for 1 user; license key for download²⁾; Email address required for delivery</p> <p>6ES7833-1FB23-0YE5</p> <p>6ES7833-1FB23-0YK5</p> |

²⁾ Up-to-date information and download availability can be found under <http://www.siemens.com/tia-online-software-delivery>.

Software for SIMATIC Controllers

TIA Portal
PLC programming

STEP 7 (TIA Portal) options > S7-PLCSIM Advanced

Overview



With SIMATIC S7-PLCSIM Advanced, digital twins can be used for simulation of S7-1500 and ET 200SP controllers and for extensive function simulation.

The digital twins can also be tested and validated in conjunction with a plant/machine. An extensive API is available for interfacing plant/machine simulations.

Highlights of SIMATIC S7-PLCSIM Advanced V7.0

New CPU types

- All new S7-1500 PLC article numbers for TIA V20/FW V4.0 are supported.

Compatibility

S7-PLCSIM Advanced now supports TIA Portal projects of versions V14 to V20 and CPU firmware versions V1.8 – V4.0.

The user interface of S7-PLCSIM V19 is also intended for use with S7-PLCSIM Advanced V6.0.

Licensing

- The engineering software can be installed on multiple computers. The number of existing licenses determines the number of computers on which the software can be used simultaneously (floating license). For each license, the use of two simultaneously started S7-PLCSIM Advanced instances is permitted.
- An upgrade to version 7.0 is offered for users of the previous versions 1.0/2.x/3.0/4.x/5.0/6.0.
- In addition, it is possible to purchase the software as an annual subscription.
- It is possible to conclude Software Update Service (SUS) contracts.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager under <http://www.siemens.com/simatic-licenses>.

Ordering data

Article No.

SIMATIC S7-PLCSIM Advanced V7.0

Option for simulation of S7-1500 and ET 200SP

Floating license, software and documentation on DVD; license key on USB flash drive

6ES7823-1FA06-0YA5

Floating license, software, documentation and license key for download¹⁾

6ES7823-1FE06-0YA5

Email address required for delivery

Upgrade

Upgrade SIMATIC S7-PLCSIM Advanced from V1.0 ... V6.0 to V7.0, floating license

6ES7823-1FA06-0YE5

Upgrade SIMATIC S7-PLCSIM Advanced from V1.0 ... V6.0 to V7.0, floating license for downloading¹⁾; Email address required for delivery

6ES7823-1FE06-0YE5

Software Subscription Service

SIMATIC S7-PLCSIM Advanced Subscription Download, Single License, software, documentation and license key for download¹⁾

6ES7823-1FE00-0YN5

Email address required for delivery

Software Update Service²⁾

For a period of 12 months and for a fixed price, the customer is automatically provided with all upgrades and Service Packs for each installed software package. The contract is automatically extended by a further year unless canceled at least 12 weeks prior to expiration. Requires the current software version.

Software Update Service: Upgrades and Service Packs are provided in the form of DVDs, USB flash drives etc.

6ES7823-1FA00-0YL5

Software Update Service (Download)¹⁾ Upgrades and Service Packs are available for downloading.

6ES7823-1FE00-0YL5

Email address required for delivery

¹⁾ Up-to-date information and download availability can be found at <http://www.siemens.com/tia-online-software-delivery>.

²⁾ For more information on the Software Update Service, see page 12/ 2.

Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 (TIA Portal) options > S7-PLCSIM Advanced

Technical specifications

Minimum requirements for use

| Hardware / software | Requirements |
|------------------------------------|--|
| Processor | <ul style="list-style-type: none"> • One logical Intel Core™ i7 6th generation core for each started instance • At least one additional core for the operating system • At least one additional core for additional active applications |
| RAM | <ul style="list-style-type: none"> • 1 GB for each started instance • At least 4 GB for the Windows operating system • Additional RAM work memory according to the requirements of the remaining active applications |
| Free hard disk space | 5 GB |
| Operating systems (64-bit version) | As TIA Portal |
| Screen resolution | min. 1024 x 768 |

Compatibility with other products

- S7-PLCSIM Advanced V7.0 and S7-PLCSIM V20 can be installed and operated on the same PC or the same virtual machine. Communication between the two applications cannot be simulated.
- Compatible with TIA Portal projects from versions V14 to V20
- Support of the CPU firmware versions V1.8 to V4.0

Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 (TIA Portal) options > ODK 1500S

Overview

- For developing dynamically loadable function libraries for the S7-1500 Software Controllers and S7-1500 Advanced Controllers CPU 1518 MFP and PLCSIM Advanced:
 - Implementation of function libraries for the SIMATIC S7-1500 Software Controllers that are executed under Windows with the high-level languages C/C++, C# and VB
 - Implementation of function libraries for the PLCSIM Advanced that are executed under Windows with the high-level languages C/C++
 - Implementation of function libraries that are executed in real-time in the context of the user program of the CPU with the high-level language C++
 - Implementation of applications for the C++ runtime of the CPU 1518 MFP
- "Eclipse" development environment for real-time function libraries in the CPU user program and applications for the C++ runtime in the scope of delivery.
- Development of library functions under Windows with MS Visual Studio (optional)
- Easy introduction to development by using basic projects via templates
- Automatic creation of function blocks for calling the library functions
- Simple integration of the function blocks into STEP 7 by importing.
- Simple use of the library functions in the PLC without specific high-level language know-how.

Licensing

- ODK 1500S is supplied with a floating license. The floating license allows installation of the software on any number of computers. The number of existing licenses determines the number of computers on which the software can be used simultaneously.
- The integrated development environment Eclipse, required for developing real-time libraries, is included in the scope of supply of ODK 1500S as well as templates for Visual Studio.
- SIMATIC ODK 1500S is available as a standalone product or in a bundle with SIMATIC Target 1500S™ for Simulink®.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager under this <http://www.siemens.com/simatic-licenses>.

Ordering data

Article No.

SIMATIC ODK 1500S

SIMATIC ODK 1500S V2.5, floating license for 1 user

E-SW, software and documentation on DVD, license key on USB flash drive, Class A, 6 languages (de, en, fr, es, it, cn), runs on Windows 7, Windows 8.1 and Windows 10

6ES7806-2CD03-0YA0

SIMATIC ODK 1500S V2.5, floating license for 1 user

E-SW, software, documentation and license key download¹⁾, Class A, 6 languages (de, en, fr, es, it, cn), runs on Windows 7, Windows 8.1 and Windows 10

6ES7806-2CD03-0YGO

Consignee email address required for delivery

¹⁾ Up-to-date information and download availability can be found at <http://www.siemens.com/tia-online-software-delivery>.

Technical specifications

System requirements

The SIMATIC ODK 1500S can be used on PC platforms with the following requirements:

- Operating systems Windows 7/8.1/10
- Min. 3 GB hard disk memory
- Min. 4 GB work memory
- Mouse, keyboard, monitor

Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 (TIA Portal) options > SIMATIC Target for Simulink

Overview

SIMATIC Target™ is an add-on for the Simulink® software from The MathWorks. This makes it possible to also use model-based design with MATLAB® and Simulink for SIMATIC S7-1500 Controllers and Industrial Edge from Siemens. For this purpose, executable code for all ODK-compatible S7-1500 Controllers (S7-1500 Software Controllers, ET 200SP Open Controllers, CPU 1518 ODK/MFP and PLCSIM Advanced as of V3.0) or the LiveTwin Edge app is generated directly from Simulink via SIMATIC Target.

New with V6.0

- Support for Simulink External Mode for the LiveTwin Edge app: This allows the model behavior to be observed directly on the runtime. This enables a comparison of model behavior between Simulink simulation and real-time execution on LiveTwin. In addition, External Mode allows module parameters to be adjusted directly in the runtime, thus directly influencing the runtime behavior of the model.
- "Download in RUN" also for Simulink models: The handling of the Load and Unload ODK blocks is directly included in the generated PLC blocks. This eliminates the need for a RUN/STOP transition to run the updated model in an S7-1500.
- The web visualization of the Simulink model is now based on the new PLC Web API: This means that additional DBs are no longer created in the user program for the website. In addition, no special system function calls are required. Web visualization is also possible for up to four different Simulink models simultaneously.
- Support of TIA Portal Multiuser: Code generation from a Simulink model can now be done directly in a Local Session of a TIA Portal Multiuser project.

Licensing

- The engineering software can be installed on multiple computers. The number of existing licenses determines the number of computers on which the software can be used simultaneously (floating license).
- SIMATIC Target™ for Simulink® V6.0 is available as a standalone product or in a bundle with the SIMATIC S7-1500 Software Controller Open Development Kit.
- An upgrade to latest versions is available for previous versions

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager under <http://www.siemens.com/simatic-licenses>.

Ordering data

Article No.

SIMATIC Target (TM) for Simulink(R) V6.0 floating license download

6ES7823-1BE05-0YA5

Engineering software; software, documentation and license key for download¹⁾; Class A; 2 languages: de, en; runs under Win10; Win11; Software for integrating Simulink models into the S7 program of the S7-1500 SW controller / CPU1518 ODK/MFP and the Industrial Edge runtime via the LiveTwin Edge app
Consignee email address required for delivery

SIMATIC Target (TM) for Simulink(R) V6.0 Upgrade V2.0 ... V5.0 -> V6.0 floating license download

6ES7823-1BE05-0YE5

Engineering software; software, documentation and license key for download¹⁾; Class A; 2 languages: de, en; runs under Win10; Win11; Software for integrating Simulink models into the S7 program of the S7-1500 SW controller / CPU1518 ODK/MFP and the Industrial Edge runtime via the LiveTwin Edge app
Consignee email address required for delivery

Target + ODK 1500S bundle

6ES7823-1BE15-0YA0

Contains: SIMATIC ODK 1500S V2.5 and SIMATIC Target (TM) for Simulink (R) V6.0, floating license download, E-SW, software, documentation and license key for download¹⁾, Class A; 2 languages: de, en; runs under Win10; Win11; Software for integrating Simulink models into the S7 program of the S7-1500 SW controller / CPU1518 ODK/MFP and the Industrial Edge runtime via the LiveTwin Edge app
Consignee email address required for delivery

SIMATIC Model Based Design 2023 PoC 90-day bundle download

6ES7823-1BE25-0YA3

Contains: SIMATIC Target (TM) for Simulink (R) V6.0 SP1 PoC DL, SIMATIC ODK 1500S V2.5 PoC 90-day download, SIMATIC S7-PLCSIM Advanced V6.0 PoC 90-day download, SIMATIC STEP 7 Professional V19 PoC 90-day download, floating license download, E-SW, software, documentation and license key for download¹⁾, Class A; 2 languages: de, en; The system requirements specification can be found at <https://www.siemens.com/compatool>.
Consignee email address required for delivery

¹⁾ Up-to-date information and download availability can be found at <http://www.siemens.com/tia-online-software-delivery>.

Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 (TIA Portal) options > SIMATIC Target for Simulink

Technical specifications

Requirements at the MATLAB end

| | |
|--|--|
| MATLAB 2019b (64-bit) or more recent version | <ul style="list-style-type: none"> • MATLAB 9.13 • MATLAB Coder 5.5 • Simulink 10.6 • Simulink Coder 9.8 • Embedded Coder 7.9 (optional) • Stateflow 10.7 (optional) |
|--|--|

Requirements at the SIMATIC end

| | |
|---------------------------------|--|
| SIMATIC ODK 1500S V2.0/V2.5 | Must be installed together with SIMATIC Target, MATLAB and Simulink on the same PC |
| STEP 7 Professional as of V15.1 | For configuration of the S7-1500 CPUs, not essentially on the same PC as the SIMATIC Target |
| Supported CPUs | <ul style="list-style-type: none"> • CPU 1507S(F) with firmware V2.0 or higher • CPU 1515SP PC (F) with firmware V2.0 or higher • CPU 1518 (F) ODK/MFP • S7-PLCSIM Advanced as of V3.0 |

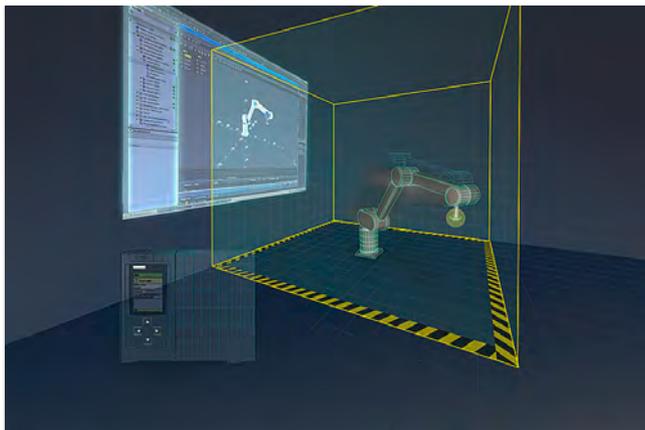
Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 (TIA Portal) options > SIMATIC Safe Kinematics

Overview



SIMATIC Safe Kinematics enables safe monitoring of the movement of predefined kinematics with up to 12 interpolating axes in multidimensional space. The following monitoring functions are available:

- **Safe Speed Monitor:**
Safe speed monitoring can be used to monitor the Cartesian speed of individual points in the kinematics, e.g. at the tool center point or at joints.
- **Safe Zone Monitor:**
Safe zone monitoring is used to monitor the position of the kinematics in the Cartesian space, e.g. to limit the traversing range of the kinematics or to monitor areas that can be entered by operating personnel.
- **Safe Orientation Monitor:**
Safe orientation monitoring enables monitoring of the orientation of the flange on user-defined serial kinematics, e.g. a workpiece may only be machined if the tool is perpendicular to the floor.

The following kinematics are supported:

- Cartesian portal
- Roller picker (vertical and horizontal)
- Delta pickers
- SCARA
- Articulated arm
- User-defined serial kinematics

SIMATIC Safe Kinematics includes an engineering option package for the TIA Portal and must be subsequently installed via a setup in TIA Portal V20.

The product contains a fail-safe block library that can be integrated in the STEP 7 Safety Advanced programming environment and can be connected on the input and output side.

SIMATIC Safe Kinematics supports the following control platforms:

- S7-1500 F-CPU
- Open Controller
- SIMATIC Drive Controller
- Software Controller
- SINUMERIK ONE

System requirements

- SIMATIC STEP 7 Professional (TIA Portal) V20
- STEP 7 Safety Advanced V20

SIMATIC Safe Kinematics requires as a subordinate drive system SINAMICS S120 with CU320-2 as of firmware V5.1 with Safety Integrated Advanced Functions.

Licensing

- The software is supplied with a Single Runtime License. A license is required for each F-CPU on which SIMATIC Safe Kinematics runs.
- The software can only be ordered via Online Software Delivery (OSD). The download contains one license certificate and the TIA Portal installation setup for SIMATIC Safe Kinematics.
- The following additional licenses are required to use SIMATIC Safe Kinematics:
 - SIMATIC STEP 7 Professional (TIA Portal) V20
 - STEP 7 Safety Advanced V20
 - SINAMICS Safety Integrated Advanced Functions (for each monitored axis of the kinematics)

Ordering data

Article No.

SIMATIC Safe Kinematics

SIMATIC Safe Kinematics V19 single Runtime license download¹⁾

Includes license certificate and installation setup for the block library for safe monitoring of the movement of predefined kinematics with up to 12 interpolating axes. Runs on S7-1500 (T)F-CPU (CPU 1516 FW 4.0 or higher, CPU 1517, CPU 1518) Open Controller, Drive Controller (1507D TF), Software Controller and SINUMERIK ONE with TIA Portal V20 and STEP 7 Safety Advanced V20
Consignee email address required for delivery

6ES7823-0FE04-1AA0

¹⁾ Up-to-date information and download availability can be found under <http://www.siemens.com/tia-online-software-delivery>.

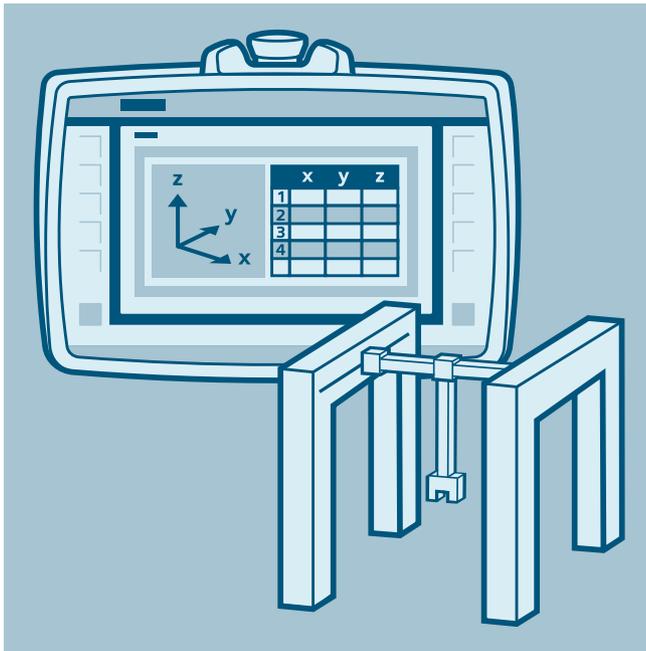
Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 (TIA Portal) options > SIMATIC Kinematics Operate

Overview



With SIMATIC Kinematics Operate, kinematics can be configured, programmed and operated with up to 6 positioning axes with synchronous point-to-point control (sPTP). The Plug & Play solution comprises a convenient user interface for programming, diagnostics and operation of the kinematics via HMI.

The SIMATIC Kinematics Operate V1.0 software solution consists of a TIA Portal project and an HMI project for TIA Portal as of V15.0.

SIMATIC Kinematics Operate V1.0 contains the following HMI configuration functions:

- Configuration of kinematics and additional axes; 6 axes are available in total for multi-axis positioning with sPTP. The axes not used in the multi-axis group can be created as independent single axes.
- Axis configuration; the dynamic parameters, the axis limits and the homing of the different axes can be configured.
- Tag and I/O configuration; Bool and Real tags can be created. Logical step enabling conditions consisting of multiple inputs and tags can be combined into one Boolean tag. Digital inputs and outputs can be configured via the I/O address.
- Points table; By means of input or teaching of axis positions, path points can be defined that can be used for programming the kinematics.
- Zone configuration; multiple restricted zones can be created in the workspace as protection zones. These are checked cyclically against both the target coordinates and the current axis values. A violation leads to a stop response of the axes

The program editor offers the following functions:

- Synchronous point-to-point commands; all axes are traversed synchronously with multi-axis positioning. The destination is specified either using the points table or by direct input with optional blending.
- Single axis commands; the additional axes can be homed, positioned, torque-limited or speed-controlled.
- Wait functions; Step enabling conditions, based on a digital input, a Bool tag or a wait time, can be programmed.
- Calculate tags and assign values; digital outputs can be set via an input mask. In addition, floating point tags can be calculated, incremented or assigned absolute values.
- Program control structures; labels, branches, loops and parallel sequences allow flexible program design.

SIMATIC Kinematics Operate can be run on SIMATIC S7-1500 CPU S7-1511T-1 PN. Alternatively, SIMATIC S7-1500 CPU S7-1512C-1 PN or a faster CPU can be used. Please refer to the operating instructions for details on scalability and the configuration limits.

System requirements

- SIMATIC STEP 7 Professional (TIA Portal) as of V15
- SIMATIC WinCC Advanced ES as of V15

Licensing

- SIMATIC Kinematics Operate is available as Runtime option for TIA Portal. A license is required for each CPU on which SIMATIC Kinematics Operate runs.
- The product can only be ordered via Online Software Delivery (OSD). The download contains the license certificate. The software is downloaded via the Siemens Industry Online Support Portal.
- The following additional licenses are required to use SIMATIC Safe Kinematics:
 - SIMATIC STEP 7 Professional (TIA Portal) as of V15
 - SIMATIC WinCC Advanced ES as of V15

Ordering data

Article No.

SIMATIC Kinematics Operate

SIMATIC Kinematics Operate V1.0 single machine license download¹⁾

Includes license certificate, programming and control of multi-axis kinematics with sPTP for 2-6 positioning axes based on a SIMATIC S7-1500 PLC from SIMATIC S7-1511T upwards
Including user operating concept
Consignee email address required for delivery

6ES7823-0GE01-1AA0

¹⁾ Up-to-date information and download availability can be found at <http://www.siemens.com/tia-online-software-delivery>.

Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 (TIA Portal) options > SIMATIC Motion Interpreter

Overview



The SIMATIC Motion Interpreter of the CPU S7-1500T can be used to create motion tasks for single axes, coordinated axes, and kinematics with up to six interpolating axes. The motion tasks that you want the Interpreter to perform are contained in an Interpreter program, which is part of the Motion Interpreter. The Interpreter program and the cyclic user program of the machine are separate from each other. This means that the technological production process can be implemented without interfering with the cyclical user program of the machine and can be changed during ongoing machine operation.

The Interpreter program can be validated and simulated with an integrated digital twin independently of the user program, enabling parallel development of a customer machine and a fast time-to-market.

Requirements

- TIA Portal V19 with STEP 7 Professional
- SIMATIC T-CPU (technology CPU) from FW version V3.1

Licenses

The SIMATIC Motion Interpreter is a product subject to licensing. A Runtime license is required for each technology CPU.

Ordering data

Article No.

SIMATIC Motion Interpreter

Motion Interpreter basic

Single Runtime license for 1 CPU
 Download contains license certificate without software and documentation.
 Executable under SIMATIC technology CPUs.
 TIA Portal V19 or higher is required for execution.
 Download product¹⁾
 Consignee email address required for delivery

6ES7823-0SJ00-1AA0

¹⁾ Up-to-date information and download availability can be found at <https://www.siemens.com/tia-online-software-delivery>

Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 (TIA Portal) options > S7-1500T Motion Control KinPlus

Overview



The SIMATIC S7-1500 Technology CPUs support kinematics with up to 4 interpolating axes, e.g. for handling tasks such as pick & place, assembly and palletizing. With the Motion Control package "S7-1500T Motion Control KinPlus", this scope of functions is expanded so that kinematics with up to 6 interpolating axes can be controlled – e.g. for "oriented" handling of products by means of rotary and swivel axes. The following additional kinematics are available with "S7-1500T Motion Control KinPlus":

- Predefined kinematics:
 - Cartesian portal 3D with 2 orientations
 - Delta-Picker 3D with 2 orientations
 - 6-axis articulated arm with central hand
- User-defined kinematics 3D with 3 orientations

Prerequisites:

- TIA Portal V18 with STEP 7 Professional
- SIMATIC CPU 1518T-4 PN/DP, CPU 1518TF-4 PN/DP or CPU 1507D TF; FW version V3.0 or higher
- Motion control package "S7-1500T Motion Control KinPlus" with up-to-date Motion Control firmware part
- Special SIMATIC Memory Card of the type "S7-1500T Motion Control KinPlus" (required for each CPU, available as 2 GB and as 32 GB variant)

The Motion Control package "S7-1500T Motion Control KinPlus" contains the complete Motion Control firmware part of a T-CPU and additionally the function extensions for up to 6 interpolating axes. This package must be copied to a SIMATIC Memory Card of the type "S7-1500T Motion Control KinPlus" and is loaded by the controller at runtime.

Ordering data

Article No.

| | |
|---|---------------------------|
| S7-1500T Motion Control KinPlus | |
| S7-1500T Motion Control KinPlus Runtime software without documentation | 6ES7823-0KE01-1AA0 |
| Class A runs under T-CPU 1518 T//TF DriveController 1507D TF Download product ¹⁾ | |
| Consignee email address required for delivery | |
| The SD card 6ES7 954-8LP80-0AA0 or 6ES7 954-8LT80-0AA0 is required for execution | |
| S7-1500T Motion Control KinPlus Runtime software without documentation | 6ES7823-0KU01-1AA0 |
| Class A runs under T-CPU 1518 T//TF and DriveController 1507D TF | |
| Supplied on USB flash drive | |
| The SD card 6ES7 954-8LP80-0AA0 or 6ES7 954-8LT80-0AA0 is required for execution | |
| SIMATIC S7, memory card for S7-1500T Motion Control KinPlus | 6ES7954-8LP80-0AA0 |
| 3.3 V flash, 2 GB | |
| SIMATIC S7, memory card for S7-1500T Motion Control KinPlus | 6ES7954-8LT80-0AA0 |
| 3.3 V flash, 32 GB | |

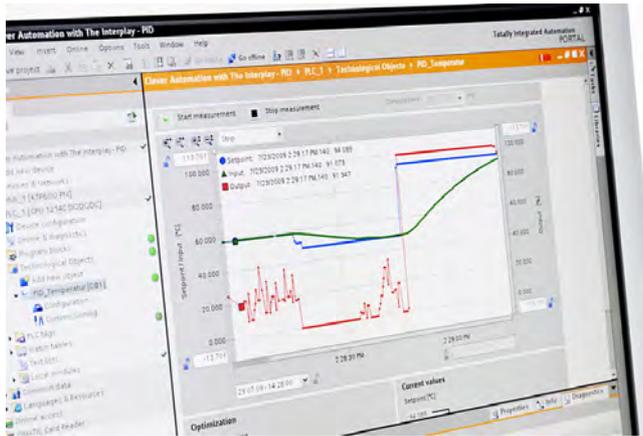
¹⁾ Up-to-date information and download availability can be found at <https://www.siemens.com/tia-online-software-delivery>

Software for SIMATIC Controllers

TIA Portal
PLC programming

STEP 7 (TIA Portal) options > PID Professional (TIA Portal)

Overview



- PID Professional combines the two option packages Modular PID Control and Standard PID Control in TIA Portal.
- Permits the simple integration of continuous PID Controllers, pulse controllers and step controllers in the application program
- Can be used for simple to complex closed-loop control tasks in SIMATIC S7-300 (CPU 313 or higher), S7-400, and WinAC.
- The engineering software for PID Professional is already included in the STEP 7 package in STEP 7 V13 or higher.
- Tuning functionality by means of PID Self-Tuner (part of STEP 7 as of V11 SP1).
- Reduces engineering costs thanks to time-saving parameterization and optimization of the controller

Licensing

- The engineering software can be installed on multiple computers. The number of existing licenses determines the number of computers on which the software can be used simultaneously (floating license).
- The engineering software requires STEP 7 Professional. The software is part of the STEP 7 Professional DVD and/or the program download. A license key is required for activation.
- During runtime, each CPU requires its own runtime license.
- Upgrades to PID Professional (engineering license or Runtime single license) are offered for Standard PID Control/Modular PID Control from V11 onwards.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager under <http://www.siemens.com/simatic-licenses>.

Ordering data

Article No.

PID Professional for TIA Portal

SIMATIC S7 PID Professional for TIA Portal, floating license V11 or higher, Runtime single license

6ES7860-1XA02-0XA5

Without software and documentation
License key on USB flash drive, Class A,
requires STEP 7 Professional V1x,
reference hardware:
S7-300/400/WinAC

SIMATIC S7 PID Professional Runtime single license

6ES7860-1XA01-0XB0

Without software and documentation, Class A,
reference hardware: S7-300/400/WinAC

SIMATIC S7 PID Professional license key download¹⁾ floating license from V11

6ES7860-1XA01-0XH5

Without software and documentation, Class A,
requires STEP 7 Professional V1x,
reference hardware:
S7-300/400/WinAC

Consignee email address required for delivery

SIMATIC S7 PID Professional license key download¹⁾, upgrade license Standard PID Control/ Modular PID Control V5.1 or higher -> PID Professional V11 or higher

6ES7860-1XA01-0XK5

Without software and documentation, Class A,
requires STEP 7 Professional V1x,
reference hardware:
S7-300/400/WinAC

Consignee email address required for delivery

SIMATIC S7 PID Professional for TIA Portal, upgrade license Standard PID Control/ Modular PID Control V5.1 or higher -> PID Professional V11 or higher Runtime single license

6ES7860-1XA02-0XE5

Without software and documentation
License key on USB flash drive, Class A,
requires STEP 7 Professional V1x,
reference hardware:
S7-300/400/WinAC

¹⁾ Up-to-date information and download availability can be found at <http://www.siemens.com/tia-online-software-delivery>.

Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 (TIA Portal) options > Easy Motion Control (TIA Portal)

Overview



- Low-priced package for simple, controlled positioning and simple geared synchronous motion
- For use with any standard variable-speed drive, such as frequency converter or servo drive
- For incremental and absolute encoders

Licensing

- The engineering software can be installed on multiple computers. The number of existing licenses determines the number of computers on which the software can be used simultaneously (floating license).
- The engineering software requires STEP 7 Professional. The software is part of the STEP 7 Professional DVD and/or the program download. A license key is required for activation.
- During runtime, each CPU requires its own runtime license.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your software licenses with the Automation License Manager under

<http://www.siemens.com/simatic-licenses>.

Ordering data

Article No.

Easy Motion Control for TIA Portal

Requirement:

STEP 7 from V12 SP1;
software included in STEP 7 V13

Floating license and single license (Runtime)

6ES7864-2XA02-0XA5

Type of delivery:

CoL for the configuration software, USB flash drive with a license key for the configuration software, CoL for a runtime license; without software or documentation

Floating license download by email, valid for V11 or higher (email address required for delivery¹⁾); without software or documentation

6ES7864-2XA01-0XH5

Easy Motion Control Runtime License

Type of delivery:

CoL for one runtime single license (valid for Easy Motion Control V2.x and V11 or higher), without software or documentation

6ES7864-0AF01-0YX0

¹⁾ Up-to-date information and download availability can be found under <http://www.siemens.com/tia-online-software-delivery>.

Technical specifications

Supported hardware:

Easy Motion Control is runnable on the following CPUs:

- S7-300.
- S7-400.
- WinAC.
- ET 200S.
- ET 200pro.

Supported modules for the measuring of actual values:

- CPU 314C (FW version 2.0 of the CPU or higher).
- ET 200S 1 Count 5V/500 kHz.
- ET 200S 1 Count 24V/100kHz.
- ET 200S 1SSI.
- SM 338.
- FM 350-1, FM 450-1.
- SIMODRIVE Sensor with PROFIBUS DP.
- IM 174.
- Other modules for measuring actual values (using free driver).

Supported modules for setpoint output:

- ET 200S 2AO U.
- SM 332.
- SM 432.
- IM 174.
- Other modules for setpoint output (using free driver).

Supported drives using PROFIBUS DP:

- Micromaster 4.
- SINAMICS G120.
- SINAMICS S120.

Storage space requirements

| Required work memory in bytes | | |
|-------------------------------|--------------------------------|--|
| Block | Required work memory per block | Additional work memory required per instance |
| MC_Init | 1086 | - |
| MC_MoveAbsolute | 3924 | 112 |
| MC_MoveRelative | 2982 | 110 |
| MC_MoveJog | 3110 | 110 |
| MC_Home | 2886 | 104 |
| MC_StopMotion | 1114 | 70 |
| MC_Control | 1756 | 58 |
| MC_Simulation | 410 | 64 |
| MC_GearIn | 3476 | 128 |
| Input driver | 1416 ... 2654 | 76 ... 128 |
| Output driver | 384 ... 1242 | 52 ... 68 |
| Axis data block | - | 294 |

Software for SIMATIC Controllers

TIA Portal

PLC programming

STEP 7 (TIA Portal) options > SIMATIC TPCamGen technology package

Overview

The SIMATIC Software option package, TPCamGen, is used to calculate optimized motion profiles for servo presses where the tool is connected to the drive axle via a connecting rod.

When calculating the profiles, TPCamGen takes into account various constraints, e.g.:

- Maximum eccentric speed
- Maximum ram speed
- Maximum acceleration
- etc.

It minimizes the drive load at the same time.

TPCamGen is the core of the SIMATIC SimaPressServo software package and can only be used suitably in conjunction with this application software.

The SIMATIC Open Controller platform (from TPCamGen V1.1) or a Windows 10 Industrial PC (IPC) with a SIMATIC S7-15xx technology CPU (from TPCamGen V1.2) serves as runtime environment.

System requirements:

- SIMATIC STEP 7 (TIA Portal) as of V17.
- ET 200 SP Open Controller: Technology CPU 1515SP PC2 T or 1515SP PC2 TF from V21.9
or
any SIMATIC S7-15xx technology CPU from V2.9/V21.9 in connection with Windows 10 Industrial PC.

Licensing

- The software can only be obtained as download via Online Software Delivery (OSD). The download includes a license certificate and a ZIP file containing the Windows Installation Setup, TPCamGen function blocks for TIA Portal and the Function Manual (DE/EN).
- The software purchase includes the license for a specific servo press configuration.
- The software is additionally delivered with a Floating Runtime License. It allows the installation of the software on any number of Open Controller CPUs.
- To use the TPCamGen, a signature is additionally required, which is provided in coordination with Siemens. This signature corresponds to a technical license key and is queried each time the software package is generated in the context of the specific press solution. The signature must be stored once in the implemented solution.
You will find more information in the Siemens Industry Online Support at <https://support.industry.siemens.com/cs/ww/en/view/109804905>.
- Note:
You may use one software license and the associated signature for any number of presses with identical design.
For a press with changed design data you need a new license, which has to be ordered separately.

Ordering data

TPCamGen technology package

Trend tool for servo presses, single license for one press configuration

Requirement:

SIMATIC STEP 7 (TIA Portal) as of V17

Runs on:

as of TPCamGen V1.1:
ET 200 SP Open Controller
CPU 1515SP PC2 T or
TF as of firmware V21.9;
as of TPCamGen V1.2:
S7-15xx T-CPU from firmware
V2.9/V21.9 in connection with
Windows 10 Industrial PC

Floating License Download¹⁾;
contains license certificate,
Windows Installation Setup,
TPCamGen function blocks for
TIA Portal and Function
Manual (de/en);
consignee email address required
for delivery

Article No.

6ES7823-0FE30-1AA0

¹⁾ Up-to-date information and download availability can be found under <http://www.siemens.com/tia-online-software-delivery>.

Software for SIMATIC Controllers

TIA Portal
PLC programming

STEP 7 (TIA Portal) options > OPC UA S7-1200/S7-1500

Overview

The vendor- and platform-independent OPC Unified Architecture (UA) is the communication standard for Industry 4.0 and is the standard mechanism for accessing SIMATIC S7-1500 and S7-1200 data from non-Siemens devices.

New with V17 and S7-1200 (firmware V4.5)

- OPC UA Server on S7-1200 CPUs with following functionality:
 - Methods for consistent data transfer
 - Structured data types and arrays
 - Additional diagnostic buffer entries for OPC UA Server and OPC UA diagnostics in the TIA Portal

New with V17 and S7-1500 (firmware V2.9)

- PC UA Server:
 - Alarms & Conditions on Standard SIMATIC Interface
- Global Discovery Service (GDS) support for certificate management
- Supports further PLC data types for mapping to OPC UA:
 - Localized Text and Byte strings
- Automatic creation of OPC UA instances in the server interface for data types of an OPC UA reference namespace to an FB or UDT
- Improvement of modeling for server interface or companion specifications
- OPC UA Client:
 - New blocks for easy handling

Licensing

An OPC UA Server or OPC UA Client is available on the target systems (CPUs) and is activated using runtime licenses. Runtime licenses are offered in three levels for different target systems:

| Target system | OPC UA S7-1200 Basic | OPC UA S7-1500 Small | OPC UA S7-1500 Medium | OPC UA S7-1500 Large |
|--|----------------------|----------------------|-----------------------|----------------------|
| S7-1200 CPUs | Yes | No | No | No |
| ET 200SP CPU 1510SP/1512SP/1515SP (Open Controller) S7-1500 CPU 1511/1513 CPU 1504D Drive Controller | No | Yes | Yes | Yes |
| ET 200pro CPU 1516pro S7-1500 CPU 1515/1516 PLC 1507S software | No | No | Yes | Yes |
| S7-1500 CPU 1517/1518/1508S CPU 1507D Drive Controller | No | No | No | Yes |

The runtime license includes the certificate for OPC UA (Server and Client) and can be run on the respective target systems including F, C and T/TF as from firmware V2.0 (Client V2.6).

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager under

<http://www.siemens.com/simatic-licenses>.

Ordering data

Article No.

SIMATIC OPC UA S7-1200 Basic

Single runtime license; can run on all S7-1200 CPUs (incl. F) from firmware V4.4

License certificate for OPC UA server (data access)

6ES7823-0BA00-2BA0

Download incl. license certificate for OPC UA server (data access)¹⁾

6ES7823-0BE00-2BA0

Email address required for delivery

SIMATIC OPC UA S7-1500 Small

Single runtime license; can run on ET 200SP CPU 1510SP/1512SP/1515SP (Open Controller), S7-1500 CPU 1511/1513, CPU 1504D Drive Controller

License certificate for OPC UA Server (Data Access and OPC UA Client)

6ES7823-0BA00-1BA0

Download incl. license certificate for OPC UA server (data access and OPC UA client)¹⁾

6ES7823-0BE00-1BA0

Email address required for delivery

SIMATIC OPC UA S7-1500 Medium

Single runtime license; can run on ET 200pro CPU 1516pro, ET 200SP CPU 1510SP/1512SP/1515SP (Open Controller), S7-1500 CPU 1511/1513/1515/1516, PLC 1507S software, CPU 1504D Drive Controller

License certificate for OPC UA Server (Data Access and OPC UA Client)

6ES7823-0BA00-1CA0

Download incl. license certificate for OPC UA server (data access and OPC UA client)¹⁾

6ES7823-0BE00-1CA0

Email address required for delivery

SIMATIC OPC UA S7-1500 Large

Single runtime license; can run on ET 200pro CPU 1516pro, ET 200SP CPU 1510SP/1512SP/1515SP (Open Controller), S7-1500 CPU 1511/1513/1515/1516/1517/1518, PLC 1507S software, 1508S, CPU 1504D, CPU 1507D Drive Controller

License certificate for OPC UA Server (Data Access and OPC UA Client)

6ES7823-0BA00-1DA0

Download incl. license certificate for OPC UA server (data access and OPC UA client)¹⁾

6ES7823-0BE00-1DA0

Email address required for delivery

¹⁾ Up-to-date information and download availability can be found under <http://www.siemens.com/tia-online-software-delivery>.

Technical specifications

Can be used for

| | |
|------------------------|--|
| SIMATIC OPC UA S7-1200 | For all S7-1200 CPUs from firmware V4.4 |
| SIMATIC OPC UA S7-1500 | For all S7-1500 CPUs and ET 200SP CPUs with firmware V2.0 or higher (incl. S/F/T versions) and PLCSIM Advanced |

Software for SIMATIC Controllers

TIA Portal

TIA Portal options

TIA Portal Multiuser Engineering

Overview

TIA Portal Multiuser Engineering allows several users to work on the same project simultaneously. This results in a significant reduction in configuration times, and projects can be commissioned faster.

The basic principle:

The project administration is handled by an autonomous server application. This can be installed independent of a TIA Portal.

New with V20

- Integration of Kerberos network authentication
- Multiuser commissioning in synchronous mode now also supports working in an exclusive local session and exclusive multiuser mode in a local multiuser session
- Extension of the multiuser openness functions to include marking and unmarking of multiuser objects in connection with project server groups
- Improved performance of project server connections
- Automatic return to online mode after successful check-in and update of a multiuser session
- General performance improvements, e.g. when creating and checking into the multi-user workflows

Licensing

- The software can be installed on multiple computers. The number of existing licenses determines the number of computers on which the software can be used simultaneously (floating license).
- The software is part of the STEP 7/WinCC (TIA Portal) DVD and/or of the program download; a license key is required for activation.
- An upgrade to version V20 is available for users of the previous versions V14...V19.
- It is possible to conclude Software Update Service (SUS) contracts.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your software licenses with the Automation License Manager under

<http://www.siemens.com/simatic-licenses>.

Ordering data

Article No.

TIA Portal Multiuser Engineering

V20

Software is a component of STEP 7 / WinCC as of V20. Only the Certificates of License (CoL) are delivered with the license.

Data storage medium package, floating license, license key on USB flash drive

6ES7823-1AA24-0YA5

Download incl. license key, floating license; license key for download¹⁾
Email address required for delivery

6ES7823-1AE24-0YA5

Upgrade

Software is a component of STEP 7 / WinCC as of V20. Only the Certificates of License (CoL) are delivered with the license.

Upgrade TIA Portal Multiuser Engineering V14...V19 to V20, floating license; license key on USB flash drive

6ES7823-1AA24-0YE5

Upgrade TIA Portal Multiuser Engineering V14...V19 to V20, floating license; license key for download¹⁾
Email address required for delivery

6ES7823-1AE24-0YE5

V19

Software is a component of STEP 7 / WinCC as of V19. Only the Certificates of License (CoL) are delivered with the license.

Data storage medium package, floating license, license key on USB flash drive

6ES7823-1AA23-0YA5

Download incl. license key, floating license; license key for download¹⁾
Email address required for delivery

6ES7823-1AE23-0YA5

Upgrade

Software is a component of STEP 7 / WinCC as of V17. Only the Certificates of License (CoL) are delivered with the license.

Upgrade TIA Portal Multiuser Engineering V14...V16 to V17, floating license; license key on USB flash drive

6ES7823-1AA23-0YE5

Upgrade TIA Portal Multiuser Engineering V14...V16 to V17, floating license; license key for download¹⁾

6ES7823-1AE23-0YE5

Email address required for delivery

Software Update Service²⁾

Data storage medium package

6ES7823-1AA00-0YL5

Download¹⁾

6ES7823-1AE00-0YL5

Email address required for delivery

¹⁾ Up-to-date information and download availability can be found at <http://www.siemens.com/tia-online-software-delivery>.

²⁾ For more information on the Software Update Service, see page 12/ 2.

Software for SIMATIC Controllers

TIA Portal

TIA Portal options

TIA Project Server Cloud

Overview

TIA Project Server Cloud allows multiple users to work simultaneously on a TIA Portal project over the Internet.

The TIA Project Server serves as a central storage location for TIA Portal projects.

Different users work simultaneously in local sessions, based on the projects that you manage with TIA Project Server Cloud.

Project management and administration is located on the TIA Project Server Cloud in the Industry Premium Portal.

Licensing

The license concept of the TIA Project Server Cloud is based on a subscription license model. This model offers flexibility and allows for a quick start.

- The monthly subscription with 100 GB of project storage offers unlimited use for the duration of one month. As long as you do not cancel the subscription, it will be extended for another month.
- The annual subscription with 250 GB of project storage offers unlimited use for the duration of one year. As long as you do not cancel the subscription, it will be extended for another year.
- The 365-day subscription is a Certificate of Contract (CoC) with 250 GB of project storage and offers unlimited use for the duration of one year. The subscription ends after one year.
- The 31-day subscription is a Certificate of License (CoL) with a fixed term of 31 days and 100 GB of project storage. The subscription is not automatically renewed.
- 10-hour credit: You receive a Certificate of License (CoL) with a 10-hour credit with 100 GB of project storage. The service is available for 10 hours from the start of use, but interruptions are possible.
- The access information for the license options (365 days/31 days/10 hours) is provided as a PDF document.

Multiuser Engineering

To work on TIA Portal projects together, you need a TIA Portal Multiuser Engineering license.

- The provided TIA Project Server Cloud can be used with TIA Portal Multiuser and the associated Engineering option for team engineering. A separately available TIA Portal Multiuser Engineering license is required for this.
- The use in Exclusive Engineering of the TIA Portal does not require a TIA Portal Multiuser Engineering license.
- The TIA Portal Multiuser Engineering license is included when accessed via TIA Portal Cloud.

Ordering data

Article No.

TIA Project Server Cloud, 31-day certificate

6ES7804-0PP01-2YA8

Only available through Industry Mall. The service can be used for 31 days, starting from the day of assignment. Content: Certificate of License (CoL) Consignee email address required for delivery.

The following T&Cs apply exclusively: <https://www.siemens.com/premiumdocs>

TIA Project Server Cloud, 10 hours credit

6ES7804-0PP01-3YA8

Only available through Industry Mall. The service can be used for 10 hours from the start of use. Interruptions are possible.

Contents: Certificate of License (CoL) Consignee email address required for delivery.

The following T&Cs apply exclusively: <https://www.siemens.com/premiumdocs>

TIA Project Server Cloud, annual subscription

6ES7804-0PP01-1YA0

Only available through Industry Mall. Consignee email address required for delivery.

For this service, the following T&Cs apply exclusively <https://www.siemens.com/premiumdocs>

- (i) Documentation and Supplemental Terms for the Subscription to free accessible services of Industry Premium Portal – Basic Services
- (ii) Documentation and Supplemental Terms for the Subscription to the TIA Portal Server Cloud and
- (iii) Universal Customer Agreement.

TIA Project Server Cloud, monthly subscription

6ES7804-0PP01-2YA0

Only available through Industry Mall. Consignee email address required for delivery.

For this service, the following T&Cs apply exclusively <https://www.siemens.com/premiumdocs>

- (i) Documentation and Supplemental Terms for the Subscription to free accessible services of Industry Premium Portal – Basic Services
- (ii) Documentation and Supplemental Terms for the Subscription to the TIA Portal Server Cloud and
- (iii) Universal Customer Agreement.

TIA Project Server Cloud, 365-day certificate

6ES7804-0PP01-1YA8

You receive a Certificate of Contract to unlock TIA Project Server Cloud for 365 days with 250 GB of project storage. Starting with the delivery date. This certificate automatically expires after 365 days.

Content: Certificate of Contract (CoC). Consignee email address required for delivery.

For this service, the following T&Cs apply exclusively

<https://www.siemens.com/premiumdocs>.

Software for SIMATIC Controllers

TIA Portal

TIA Portal options

TIA Portal Test Suite

Overview

Software to support quality assurance of automation programs in the TIA Portal

Contains tools for checking the programming style and for creating test routines for software modules:

- **Styleguide Checker:**
To ensure a unified programming style, rule sets with programming guidelines in the TIA Portal project can be defined as well as their compliance regularly checked.
- **Application test:**
To check the correct processing of individual logic blocks or entire S7-1500 applications, test routines with function tests can be created in a TIA Portal project and subsequently executed and validated with help of SIMATIC S7-PLCSIM Advanced V6.0.
- **System test:**
The system test allows the user to define and execute test cases for a PLC program using OPC UA server interfaces. The system test permits the following tests to be performed:
 - Hardware-in-the-loop tests with S7-1200 and S7-1500
 - Software-in-the-loop tests with PLCSIM Advanced

New with V20

Styleguide Checker:

- Styleguide Checker now includes an additional rule for block instance variables that contain IEC timers and counters. As a result, common rules can now be set up for block instance variables, for example, that all instance variables must have the prefix "inst".

Application test:

- Support for PLCSIM Advanced V7.0, S7-1500 SIPLUS PLCs, variables of data types Date and TOD
- Users can now create test sets to organize test cases and set their sequence of execution. This reduces redundancy by enabling reuse of small, reusable test cases. This improves test coverage and traceability. Multiple test groups can be created based on priority, criticality, functionality, and intended components. This improves the overall testing process.
- Optionally, the application test can now also be started as a background task. This allows the user to simultaneously use watch tables, breakpoints in the SCL/STL code, and trace functions. This makes it much easier to identify programming errors, while at the same time allowing other engineering tasks, such as HMI engineering, to be continued.

System test:

- Another parameter can be added to the WAIT statement to control when the next test step will occur. This extension provides more flexibility in defining the conditions for continuing the next step.

Licensing

- The software can be installed on multiple computers. The number of existing licenses determines the number of computers on which the software can be used simultaneously (floating license).
- The application tests created with the Test Suite can only be executed in conjunction with SIMATIC S7-PLCSIM Advanced V7.0 or higher. An additional SIMATIC S7-PLCSIM Advanced V6.0 license is only required in "ExternallyManagedPLCSIMInstance" mode.
- There is also the option of completing a Software Update Service.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager under <http://www.siemens.com/simatic-licenses>.

Ordering data

Article No.

TIA Portal Test Suite Advanced V20

Software to support quality assurance of automation programs in the TIA Portal; Software can exclusively be used together with STEP 7 Prof. / WinCC as of V20. To execute application tests, the SIMATIC S7-PLCSIM Advanced V7.0 software must also be installed.

Floating license, software, documentation and license key for download¹⁾

Email address required for delivery

6ES7823-1TE24-0AA5

Bundle TIA Portal Test Suite V20 + PLCSIM Advanced V7.0

Floating license, software, documentation and license key for download¹⁾

Email address required for delivery

6ES7823-1TE24-0CA5

Upgrade

Upgrade TIA Portal Test Suite Advanced V16...V19 to V20, floating license, software, documentation and license key for download¹⁾

Email address required for delivery

6ES7823-1TE24-0AE5

Software Update Service²⁾

Download incl. license key¹⁾

Email address required for delivery

6ES7823-1TE00-0AL5

¹⁾ Up-to-date information and download availability can be found at <http://www.siemens.com/tia-online-software-delivery>.

²⁾ For more information on the Software Update Service, see page 12/ 2.

Software for SIMATIC Controllers

TIA Portal

TIA Portal options

TIA Portal Cloud Connector

Overview

The TIA Portal Cloud Connector makes it possible to access the local PG/PC interface and the connected SIMATIC hardware from a TIA Portal engineering system in a cloud environment. Access can be made directly from TIA Portal Cloud or a private cloud via Remote Desktop.

Licensing

- The TIA Portal Cloud Connector installed locally on the machine requires a license. Exception: no license is required when using TIA Portal Cloud

Ordering data

TIA Portal Cloud Connector

Single license; software is component of STEP 7 / WinCC V14 and higher. Only the Certificates of License (CoL) are delivered with the license.

- TIA Portal Cloud Connector V2.0 – USB flash drive
 - Single license. For use with separately licensed TIA Portal products; refer to entry ID 109739390, FAQ "What are the conditions for using the TIA Portal Cloud Connector?"; license key on USB flash drive; software and documentation see entry ID 109780755; Class A; 6 languages: en, de, fr, it, es, zh; executable under Win10, Win11
 - Contents: 1x USB flash drive
- TIA Portal Cloud Connector V2.0 – download¹⁾
 - Single license download. For use with separately licensed TIA Portal products; refer to entry ID 109739390, FAQ "What are the conditions for using the TIA Portal Cloud Connector?"; license key for download; software and documentation, see entry ID 109780755; Class A; 6 languages: en, de, fr, it, es, zh; executable under Win10, Win11
 - Consignee email address required for delivery
- TIA Portal Cloud Connector V2.0 – For Industrial Edge

Article No.

6ES7823-1CA02-0YA0

6ES7823-1CE02-0YA0

Industrial Edge
Marketplace

¹⁾ For up-to-date information and download availability, see: <http://www.siemens.com/tia-online-software-delivery>

Software for SIMATIC Controllers

TIA Portal

TIA Portal options

TIA Portal Teamcenter Gateway

Overview

The Teamcenter Gateway permits storage and management of TIA Portal projects and global libraries in Teamcenter. Program handling is integrated into the TIA Portal.

Licensing

- Please note the compatibility of the installed program versions for the operation of the Teamcenter Gateway.
- The software can be installed on multiple computers. The number of existing licenses determines the number of computers on which the software can be used simultaneously (floating license).
- An upgrade to the current version is offered for users of previous versions.
- It is possible to conclude Software Update Service (SUS) contracts.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager under

<http://www.siemens.com/simatic-licenses>.

Ordering data

Article No.

TIA Portal Teamcenter Gateway

Download, incl. license certificate and license key for TIA Portal Teamcenter Gateway V20, floating license

6ES7823-1EE24-0YA5

Email address required for delivery

Upgrade

Upgrade TIA Portal Teamcenter Gateway V14...V19 to V20, floating license; license key for download; Email address required for delivery

6ES7823-1EE24-0YE5

Software Update Service

Download

6ES7823-1EE00-0YL5

Email address required for delivery

More information on the license types, the download, and the Software Update Service can be found under <http://www.siemens.com/tia-online-software-delivery>.

Technical specifications

Can be used with:

- TIA Portal V14 or higher
- Teamcenter V11, V12 and V13

Software for SIMATIC Controllers

TIA Portal

TIA Portal options

TIA Portal Cx Publication Tools

Overview

The TIA Portal Cx Publication Tools are used to export metadata from TIA Portal that is required for the exchange of Openness attributes using AutomationML. This allows Openness attributes to be exchanged with other tools, e.g. EPLAN P8, via an AutomationML file.

Licensing

- Please note the compatibility of the installed program versions for the operation of the Cx Publication Tool.
- The software can be installed on multiple computers. The number of existing licenses determines the number of computers on which the software can be used simultaneously (floating license).

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager under

<https://www.siemens.com/simatic-licenses>.

Ordering data

Article No.

TIA Portal Cx Publication Tools

6ES7823-1JE01-0EA5

Download incl. license certificate and license key for TIA Portal Cx Publication Tools V18, floating license¹⁾

Email address required for delivery

TIA Portal Cx Publication Tools V2.0

6ES7823-1JE02-0EA5

Floating license download; option for TIA Portal engineering software; software, documentation and license key for download, Class A; 1 language: en; executable with STEP 7 Professional V19;

Consignee email address required for delivery

TIA Portal Cx Publication Tools V3.0

6ES7823-1JE03-0EA5

Floating license download; option for TIA Portal engineering software; software, documentation and license key for download, Class A; 1 language: en; executable with STEP 7 Professional V20;

Consignee email address required for delivery

TIA Portal Cx Publication Tools V3.0

6ES7823-1JE03-0EE5

Upgrade V1.0, V2.0 -> V3.0; floating license download; option for TIA Portal engineering software; software, documentation and license key for download, Class A; 1 language: en; executable with STEP 7 Professional V20;

Consignee email address required for delivery

TIA Portal Cx Publication Tools, Software Update Service (SUS), download for TIA Portal

6ES7823-1JE03-0EL5

Under this contract, you receive all software versions for one year. The contract is automatically extended for one more year unless it is canceled three months before expiration. Delivery and service period: 1 year from date of invoice. Prerequisite for conclusion: current software version;

Consignee email address required for delivery

¹⁾ Up-to-date information and download availability can be found under <https://www.siemens.com/tia-online-software-delivery>.

Technical specifications

Can be used with:

- V1 for TIA Portal V18
- V2 for TIA Portal V19
- V3 for TIA Portal V20

Software for SIMATIC Controllers

TIA Portal

TIA Portal options

SIMATIC Visualization Architect

Overview

SIMATIC Visualization Architect (SiVArC)

Challenge:

- To standardize the user interfaces of the visualizations throughout the plant
- Significant reduction of the engineering costs for generating the visualizations
- To make the in-house work standard usable

Solution:

- Automatic generation and creation of the visualizations, based on the program code of the PLC and corresponding visualization objects within the framework of system-wide library concepts.

Licensing

- The software can be installed on multiple computers. The number of existing licenses determines the number of computers on which the software can be used simultaneously (floating license).
- An upgrade to the subsequent version is offered for users of previous versions.
- A rental license is available for temporary use
- The software can be tested in restricted mode without a license.
- It is possible to conclude Software Update Service (SUS) contracts.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager under

<http://www.siemens.com/simatic-licenses>.

Ordering data

Article No.

SIMATIC Visualization Architect V20

As package

- SIMATIC Visualization Architect V20
- SIMATIC Visualization Architect V20 Rental

6AV2107-0PX02-4AA5

6AV2107-0PX02-4AA6

As download¹⁾

- SIMATIC Visualization Architect V20
- SIMATIC Visualization Architect V20 Rental
- SIMATIC Visualization Architect V20 Trial

6AV2107-0PX02-4AH5

6AV2107-0PX02-4AH6

Download in Customer Support Portal

Upgrade SIMATIC Visualization Architect

Engineering software in the TIA Portal; software and documentation on CD, License key on USB flash drive Class A; 6 languages: en, de, fr, es, it, zh

V19 -> V20

- As package
- As download¹⁾
Email address required for delivery

6AV2107-3PX02-4AA5

6AV2107-3PX02-4AH5

V18 -> V19

- As package
- As download¹⁾
Email address required for delivery

6AV2107-3PX02-3AA5

6AV2107-3PX02-3AH5

Software Update Service (SUS)

SIMATIC Visualization Architect

Within the framework of the SUS contract, you are provided with all software updates for the SiVArC product at no cost over a period of one year from the date of invoice. The contract is automatically extended by a further year unless canceled three months before expiration.

The prerequisite for agreeing to an SUS is the presence of the current version.

- As package
- As download¹⁾
Email address required for delivery

6AV2107-0PX00-0AL0

6AV2107-0PX00-0AY0

¹⁾ Up-to-date information and download availability can be found under <http://www.siemens.com/tia-online-software-delivery>.

Technical specifications

SIMATIC Visualization Architect

| | |
|-------------------------------|--|
| Operating system requirements | In accordance with the requirements of the TIA Portal components: <ul style="list-style-type: none"> • SIMATIC STEP 7 (TIA Portal) • SIMATIC WinCC Unified, Professional, Advanced, Comfort, Basic |
| Supported STEP 7 version | SIMATIC STEP 7 V20 |
| Supported WinCC versions | SIMATIC WinCC V20 Unified, Professional, Advanced, Comfort, Basic |

Software for SIMATIC Controllers

TIA Portal

TIA Portal options

SIMATIC ProDiag

Overview

The TIA Portal option ProDiag makes it possible to monitor a machine or plant and to intervene in the event of a fault. The monitoring messages which can be generated for the various faults provide specific information on the monitoring mode, location and cause of the fault. Information on troubleshooting can be provided in addition. Plant operators can then not only recognize faults, they can also identify any potential danger in advance and take appropriate countermeasures.

Licensing

- The runtime license for controllers includes 250 supervisions or an unlimited number of supervisions per CPU. From FW 2.0 onwards, the software can run on S7-1500/ET 200SP CPUs regardless of the TIA Portal version.
- For the visualization of the messages, the controls are licensed according to the HMI runtime platforms.

You can find more information on the Software Update Service, license types, Online Software Delivery and handling your SW licenses with the Automation License Manager under

<http://www.siemens.com/simatic-licenses>.

Ordering data

Article No.

SIMATIC ProDiag for HMI

For WinCC Unified PC Runtime

Controls for SIMATIC WinCC Unified as of V18

- Package with data storage medium
- Download incl. license key¹⁾
Email address required for delivery

6AV2157-0BD02-4AB0

6AV2157-0BD02-4LB0

For WinCC Runtime Advanced

Controls for SIMATIC WinCC as of V14.

- Package with data storage medium
- Download incl. license key¹⁾
Email address required for delivery

6AV2107-0UA00-0BB0

6AV2107-0UA00-0BH0

For WinCC Runtime Professional

Controls for SIMATIC WinCC as of V14

- Package with data storage medium
- Download incl. license key¹⁾
Email address required for delivery

6AV2107-0UB00-0BB0

6AV2107-0UB00-0BH0

For SIMATIC Comfort / Mobile Panels

Controls for SIMATIC WinCC as of V14.

- Package with data storage medium
- Download incl. license key¹⁾
Email address required for delivery

6AV2107-0UP00-0BB0

6AV2107-0UP00-0BH0

SIMATIC ProDiag S7-1500

For 250 monitoring functions

For SIMATIC S7-1500 CPUs and ET 200SP CPUs with FW 2.0 and higher.
Independent of the TIA Portal version.

- Package with data storage medium
- Download incl. license key¹⁾
Email address required for delivery

6ES7823-0AA00-1AA0

6ES7823-0AE00-1AA0

For all configured monitoring functions on a CPU

For SIMATIC S7-1500 CPUs and ET 200SP CPUs with FW 2.0 and higher.
Independent of the TIA Portal version.

- Package with data storage medium
- Download incl. license key¹⁾
Email address required for delivery

6ES7823-0AA00-1DA0

6ES7823-0AE00-1DA0

¹⁾ Up-to-date information and download availability can be found at <http://www.siemens.com/tia-online-software-delivery>.

Technical specifications

Can be used for

SIMATIC ProDiag for HMI

For all Comfort and Mobile Panels, WinCC Runtime Advanced and WinCC Runtime Professional as of TIA Portal V14
For WinCC Unified PC Runtime as of TIA Portal V18

SIMATIC ProDiag for S7-1500

For all S7-1500 CPUs and ET 200SP CPUs with FW V2.0 and higher

Software for SIMATIC Controllers

TIA Portal

TIA Portal options

SIMATIC Modular Application Creator

Overview

The SIMATIC Modular Application Creator enables the automated generation of TIA Portal projects based on pre-defined software modules. Especially with complex machine configurations, such as a multi-belt control, a printing machine or other applications with many axes, this is very efficient compared to manually creating and parameterizing the associated automation project directly in the TIA Portal.

The software modules provide a technological view of the application and can be used in the TIA Portal without programming knowledge.

They are stored in a separate repository, independent of the tool, which needs to be connected to the tool.

Licensing

- The SIMATIC Modular Application Creator and the existing modules are available as a free download via the Siemens Industry Online Support.
- For modules that are charged for, an Engineering license is required that entitles the holder to generate TIA Portal projects for 365 days.

Ordering data

Article No.

SIMATIC Modular Application Creator

For automated generation of TIA Portal projects with use of pre-configured software modules

Can be downloaded from <https://support.industry.siemens.com/cs/ww/en/view/109762852>.

SIMATIC Modular Application Creator Equipment modules

Pre-configured software modules for use with the SIMATIC Modular Application Creator

Can be downloaded from <https://support.industry.siemens.com/cs/ww/en/view/109762849>.

SIMATIC Modular Application Creator licenses

The license authorizes generation of TIA Portal projects with the corresponding equipment module for 365 days.

- Multi-Carrier-System / TS 2 Booster
- Converting Toolbox
- Print Standard

6ES7823-1ME01-0BN8

6ES7823-1ME02-0BN8

6ES7823-1ME03-0BN8

¹⁾ Up-to-date information and download availability can be found at <http://www.siemens.com/tia-online-software-delivery>.

Technical specifications

The SIMATIC Modular Application Creator can be used for:

- TIA Portal and StartDrive as of V16.0, with activated Openness interface and
- All SIMATIC S7-1500 CPUs as of FW version 4.8.

Software for SIMATIC Controllers

TIA Portal

TIA Portal options

Central user management (UMC)

Overview

The User Management Component (UMC) provides the possibility of central user management. Through the connection to the TIA Portal, users and user groups can be defined and managed across projects. Connection to a Microsoft Active Directory is also possible.

Licensing

- Central user management (UMC) is part of the scope of delivery of TIA Portal.
- The license model depends on the number of user accounts per UMC domain.
- Up to ten user accounts can be used without a license.
- For additional user accounts, 365-day rental licenses and single licenses are available to add to the required number of centrally managed users.

Ordering data

Central user management (UMC)

Software component to implement central user management, included in the scope of supply of the respective products (e.g. TIA Portal).

The license model depends on the number of user accounts per UMC domain. Use of max. 10 user accounts possible without a license.

6 languages: de, en, fr, es, it, zh; executable on Windows 10 (21H2 or later), Windows 11 (21H2 or later), Windows Server 2019, Windows Server 2022 (21H2 or later)

- Rental license 365 days with license certificate for 100 user accounts
- Rental license 365 days with license certificate for 4 000 user accounts
- Single license with license certificate for 100 user accounts
- Single license with license certificate for 1000 user accounts
- Single license with license certificate for 4000 user accounts

Article No.

6ES7823-1UE30-0YA0

6ES7823-1UE10-0YA0

6ES7823-1UE31-0YA0

6ES7823-1UE21-0YA0

6ES7823-1UE11-0YA0