Your gateway to automation in the Digital Enterprise
Totally Integrated Automation Portal
Siemens for companies on the path to Industrie 4.0, Enterprise Software Suite, it joins PLM and MES in enabling transparent operation. As part of the Digital Engineering framework:

**Integrated engineering with TIA Portal**

- **Flexible simulation**
  - By combining the entire workflow, including the controller and HMI, into a virtual model, final commissioning time is reduced thanks to TIA Portal. The controller’s digital twin allows simulation.

- **Open system**
  - The TIA Portal Cloud Connector lets you access the system controller from your private cloud. No installation on the engineering workstation is necessary.

- **Coordinated teamwork**
  - With Teamcenter, you also merge the project workflow. With TIA Portal Multiuser Engineering, multiple people can access a project at the same time. Synchronization is automatic.

- **Reliably avoid errors**
  - The ability to simulate machines gives you security in design, security in sales and security in machine configuration.

- **Reliably avoid errors**
  - You work with a team-enabled, fully integrated tool landscape with access to a complete portfolio of control and drive components.

- **Reliably avoid errors**
  - One for all: With TIA Portal, you integrate all important components of your automation project in a single, clean, and intuitive environment. From the planning phase until commissioning, you test your project using automatic program creation.

- **Reliably avoid errors**
  - You reduce the amount of extra work by reliably identifying errors and quickly correcting them with numerous programming code templates. Many new and efficient diagnostic tools as well as cycle-test downtimes help you quickly identify errors.

- **Reliably avoid errors**
  - Generation instead of programming: Simulate your solutions using TIA Portal. This allows you to work in a virtual environment without the need for actual devices and saves time during commissioning.

- **Reliably avoid errors**
  - Handle know-how safety and efficiently: Thanks to the comprehensive library concept, you can easily adapt your projects and thus avoid extra work. Optimize your project planning in TIA Portal. The SIMATIC Energy Suite automation solution and the Energy Manager PRO energy management system make it easy to integrate higher-level MES/ERP solutions. The greatest possible transparency through consistent data storage makes it easy to integrate higher-level MES/ERP solutions. The greatest possible transparency through consistent data storage makes it easy to integrate higher-level MES/ERP solutions.

- **Reliably avoid errors**
  - Open communication: Generating automation and IT level by means of open communication, you can easily adapt your solutions and thus avoid extra work. Secure your entire system across all system components. The SIMATIC Drive Control system allows you to connect the entire automation system to the TIA Portal.

**Shorten your time to market**

- **One for all**: With TIA Portal, you integrate all important components of your automation project in a single, clean, and intuitive environment. From the planning phase until commissioning, you test your project using automatic program creation.

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**Increase your productivity**

- **Increase your productivity**
  - “A standard engineering platform is desirable for engineering energy efficiency systems: consistently from configuration to data storage, all the way to the customer’s desk.”

- **Increase your productivity**
  - Information management: The greatest possible transparency through consistent data storage makes it easy to integrate higher-level MES/ERP solutions. The greatest possible transparency through consistent data storage makes it easy to integrate higher-level MES/ERP solutions.

- **Increase your productivity**
  - Energy management: The integrated SIMATIC Energy Suite automation solution and the universally usable Energy Manager PRO energy management system make it easy to integrate higher-level MES/ERP solutions. The greatest possible transparency through consistent data storage makes it easy to integrate higher-level MES/ERP solutions.

- **Increase your productivity**
  - Diagnosis management: With an integrated digital twin, you can integrate higher-level MES/ERP solutions. The greatest possible transparency through consistent data storage makes it easy to integrate higher-level MES/ERP solutions.

- **Increase your productivity**
  - Open communication: Generating automation and IT level by means of open communication, you can easily adapt your solutions and thus avoid extra work.
Open, virtual and connected

Digital Enterprise.

“Making it the perfect access to automation in the Siemens for companies on the path to Industrie 4.0, rounding out the comprehensive offering from Enterprise Software Suite, it joins PLM and MES in engineering framework.

The Totally Integrated Automation Portal (TIA Portal) enables complete access to the entire digitalized automation, from digital planning and integrated engineering to production planning, engineering, and design. Through the new TIA Portal, you can integrate all important components of your automation and engineering projects, including SIMATIC, Sinamics, and SPS, and consistent control and drive configuration to transparent operation.

“Open system TIA Portal allows you to efficiently create your project using software generators, thus reducing the number of redundant activities. For further work, you only need the project master copy, which can be used for all future digital services.

Flexible simulation
By combining the entire product line, including the controller to the complete energy management system, TIA Portal is the most comprehensive tool for improving plant and system efficiency. Efficient process control helps you quickly identify errors in the automation system across all system components. The standardized ProDiag machine and plant diagnostic system gives you the transparency you need to save energy according to ISO 50001.

Reliability avoid errors
This reduces the amount of work and errors by enabling identifying errors and quickly assessing them with comprehensive reporting and diagnostic tools. In the correct situation, the TIA Portal can help in analyzing spread errors among system components.

One for all
With TIA Portal, you integrate all important components of your automation and engineering projects, including SIMATIC, Sinamics, and SPS, and consistent control and drive configuration to transparent operation.

Coordinated teamwork
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Generation instead of programming
Simplify your solutions even further thanks to automated generation of control applications. Use Sinamics, Sinumerik, and TIA Portal to generate and deploy the entire control application. With only a few configuration errors, you avoid tedious steps and a standard solution across all tasks, your engineering time is reduced.

Handle know-how safety and efficiently
Thanks to the comprehensive library overview, you can easily reuse project data and then avoid errors when integrating your own system landscapes or systems. With TIA Portal, you can optimize your planning and engineering workflows. You reduce the amount of extra work by reliably identifying errors and quickly correcting them with numerous programming code templates. Many new and efficient diagnostic tools as well as cycle-based system test recordings provide help in analyzing sporadic errors and quickly correcting them with numerous programming code templates. Many new and efficient diagnostic tools as well as cycle-based system test recordings provide help in analyzing sporadic errors.

Integrated energy efficiency systems
Consistently from design, security in sales and security in machine control and drive components.

COO Optima Consumer
Rainer Feuchter, Head of E-Technik
Andreas Martin Linck, Head of E-Technik
Stephan Vömel, Head of E-Technik

CEO Optima Consumer
Rainer Feuchter, Head of E-Technik
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Increase your productivity

Transparent operation with TIA Portal

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The Totally Integrated Automation Portal (TIA Portal) enables convenient access to the entire Siemens portfolio. It helps companies on the path to Industrie 4.0 to combine planning and engineering, commissioning, testing, troubleshooting, and monitoring of mechanical components (planning, engineering, and design) and plants (production, control, and drive) under one roof.

TIA Portal offers both integrators as well as plant operators benefits such as:

- increased productivity thanks to additional diagnostic and energy management functions
- greater flexibility thanks to coordinated teamwork
- Open, virtual and connected

Open system
TIA Portal allows you to efficiently create your project using software generators, thus reducing the number of redundant activities. In addition, you can use the project configuration to continuously plan, engineer, and design.

Cloud solution
You can connect your cloud to increase flexibility in your everyday work. The new TIA Portal Cloud Edition helps you access the system over the internet, even when you are away from your working place.

Flexible simulation
By simulating the entire installation, including the controller and connected drives, you can now virtually test the I/O and HMI. This significantly reduces the risk of commissioning errors and helps you start up the controller more quickly.

Reliable avoidance of errors
You reduce the risk of commissioning errors by reliably identifying errors and quality issues even before commissioning. With new tools and enhanced diagnostic functions, both system and plant diagnostic help you analyze errors and errors during commissioning.

Generation instead of programming
Save your engineering time faster thanks to automatic generation of device configuration. With TIA Portal, you can rely on software generators without any programming work.

Handle know-how safely and efficiently
Thanks to the comprehensive library concept, you can easily transfer projects and thus avoid work redundancies. Integrate your own software generators or software applications that are linked via the TIA Portal Openness interface.

Information management
The greatest possible transparency through open communication interfaces. You can access data according to the demands of your users. The standard OPC UA communication protocol lets you forward production data to systems of other manufacturers. IndustrialDataConnect provides access to data in the cloud as well as automatic program creation using software generators.

Energy management
The integrated SIMATIC Energy Suite automation solution and the externally operated Energy Manager PRO energy management system help you get a handle on your energy costs and reduce energy consumption. The Energy Suite makes it easy to integrate higher-level MES/ERP solutions. The greatest possible transparency through open communication interfaces.

Efficient and integrated diagnosis of process errors reduce production downtime. You can identify errors as well as automatic program creation using software generators. The Energy Suite makes it easy to control your energy costs and reduce energy consumption.
The Totally Integrated Automation Portal (TIA Portal) enables creative access to the entire digitalized automation. From digital planning and integrated engineering to efficient project management and comprehensive support in all stages of the lifecycle, TIA Portal is an open, virtual, and task-based engineering platform for automation projects. This enables complete access to the entire digitalized automation, from digital planning and integrated engineering to efficient project management and comprehensive support in all stages of the lifecycle. TIA Portal is an open, virtual, and task-based engineering platform for automation projects.

With TIA Portal, you can:
- Simulate machines and prepare data for the commissioning phase
- Use your own projects with your own look and feel
- Integrate multiple entries, a shared database, and a standard interface
- Leverage additional tools like fast and easy machine and plant simulation
- Use automatic program creation using software generators
- Handle know-how safety and efficiency

**Flexible simulation**
By simulating the entire installation, including the controller, logic, and inter-related PLC functions and a virtual model of the real engineering setup, you can create a digital twin. This process is known as virtual commissioning and is often referred to as “TIA NovaConnect.

**Coordinated teamwork**
With TIA Portal Multiuser Engineering, multiple people can access a complete portfolio of all project components and work simultaneously. With only a few multiple entries, a shared database and a standard interface across all tasks, your engineering time is reduced.

**Open system**
The cloud platform, game to efficiently make your project setup software generable, thus reducing the number of redundant instructions. Step by step, you can map the project from creation planning, engineering and design.

**Cloud solution**
You can connect the cloud to increase flexibility in your everyday work. The new TIA Portal Cloud Connector lets you access the system controller from your private cloud. No installation on the engineering workstation is necessary. You can connect to the cloud to increase flexibility in your everyday work. The new TIA Portal Cloud Connector lets you access the system controller from your private cloud.

**Reliably avoid errors**
You benefit from additional work safety by reliably identifying errors and quickly access them with various programming code templates. A detailed and efficient diagnosis tool for the TIA Portal automation project system is available. This enables error-free operation and help in analyzing and solving errors even before commissioning.

**Generation instead of programming**
Develop your solutions even faster thanks to automatic generation of software from the digital model. In combination with the TIA Portal programming interface, you can create a digital twin of your project setup and generate software.

**Handle know-how safety and efficiency**
Thanks to the comprehensive library concept, you can easily map your own projects and thus avoid errors. Safeguarding your own projects and safeguarding your own projects are essential factors for the digital twin. By simulating the entire installation, including the controller, logic, and inter-related PLC functions and a virtual model of the real engineering setup, you can create a digital twin. This process is known as virtual commissioning and is often referred to as “TIA NovaConnect.

**Shorten your time to market**
With TIA Portal and the possibilities offered by the new version 5.0, you can create your project setup with unprecedented speed. You can then test and optimize your project setup. This process is known as virtual commissioning and is often referred to as “TIA NovaConnect.

**Increase your productivity**
A standard engineering platform is desirable for engineering energy efficiency systems. Consistently from configuration to data storage, all the way to the customer’s desk.
Digital Enterprise. making it the perfect access to automation in the Siemens for companies on the path to Industrie 4.0, rounding out the comprehensive offering from engineering framework TIA Portal – more than an

Version V14, machine manufacturers and system integrators as well as plant operators benefit from:
Easy access to the TIA Portal

**Action packages**

### Trial user

**TIA Portal V14 TRIAL download collections**
- STEP 7: [https://support.industry.siemens.com/cs/de/de/view/109740158](https://support.industry.siemens.com/cs/de/de/view/109740158)
- WinCC: [https://support.industry.siemens.com/cs/de/de/view/109740228](https://support.industry.siemens.com/cs/de/de/view/109740228)
- Startdrive: [https://support.industry.siemens.com/cs/de/de/view/68034568](https://support.industry.siemens.com/cs/de/de/view/68034568)
- Trial period: limited (21 days)

### Upgraders

**Software – STEP 7 V5.5 to SIMATIC STEP 7 Professional V14 Combo**
- **Scope:** Upgrade and power pack from STEP 7 V5.5 to STEP 7 V14 Professional / Prof. 2010; SUS contract also required
- **Product no.:** 6ES7822-1AA04-0XC2
- **SUS product no.:** 6ES7810-5CC04-0YE2
- **Trial period:** unlimited; prerequisites: STEP 7 V5.5 license, STEP 7 V5.5 SUS
- **Important:** The package is linked with a mandatory SUS contract.

### First-time users

**Starter kit with S7-1500 hardware**
- The starter kit includes everything you need to immediately put the high-performance SIMATIC S7-1500 into use.
- [siemens.com/s7-1500-starter-kits](https://www.siemens.com/s7-1500-starter-kits)

**Starter kit with S7-1200 hardware**
- With the SIMATIC S7-1200 starter kits, you can quickly and easily implement your simple automation tasks.
- [siemens.com/s7-1200-starter-kits](https://www.siemens.com/s7-1200-starter-kits)

**Starter kit with Comfort Panel hardware**
- With high-resolution wide-screen displays ranging from 4" to 22" and the option of touch operation or operating buttons, the starter kits include everything you need to use the hardware.
- [siemens.com/comfort-panel-starter-kits](https://www.siemens.com/comfort-panel-starter-kits)

**Software – SIMATIC STEP 7 V14 power pack: V14 Trial 365 → V14 (download)**
- After you purchase the SIMATIC S7-1500 starter kit, you can convert the included 365-day license to a full license of the same version with a power pack.
- **Product no.:** 6ES7822-1BE04-0YC5
- **Prerequisites:** S7-1500 starter kit

### Temporary use

**SIMATIC 50-h engineering license for infrequent use of the software (rental license)**
- **Scope:** STEP 7 Professional (TIA Portal & 2010), WinCC Professional (TIA Portal & Flexible 2008), STEP 7 Safety Advanced (TIA Portal & Distributed Safety)
- **Product no.:** 6ES7823-1GE04-0YA5
- **Trial period:** 50 hours of actual use

**Good to know**

**Software Update Services (SUS)**
- With the Software Update Service, you automatically receive all released versions of the software you use delivered right to your door – in other words, all upgrades and service packs. [siemens.com/SUS](https://www.siemens.com/SUS)

**Online Software Delivery (OSD)**
- The clever alternative to traditional software delivery! Downloading automation software reduces your administrative expense and storage costs, and ensures simple, reliable, and always clearly organized license management. [siemens.com/OSD](https://www.siemens.com/OSD)

**Your step into the future – migration made easy**

**Supporting documents and tools for migration**
- Migration to the TIA Portal is supported with several powerful tools and helpful documents, which you can simply download.
  - TIA Portal readiness check tool: Check quickly and easily whether the hardware contained in your projects is supported by the TIA Portal. [siemens.com/readiness-check](https://www.siemens.com/readiness-check)
  - Compatibility tool: The tool allows you to assemble a compatible selection of software products or to check existing configurations for compatibility. [siemens.com/kompatool](https://www.siemens.com/kompatool)

**Individual modernization support**
- On request, Siemens can provide you with personal support for very specific requirements: [siemens.com/industry/contact](https://www.siemens.com/industry/contact)
- From consultation and implementation to final project completion, Siemens offers comprehensive modernization services: [siemens.com/fa-migration](https://www.siemens.com/fa-migration)
- Details are available at: [siemens.com/tia-migration](https://www.siemens.com/tia-migration)

**Documentation**
- Migration guides:
  - From SIMATIC S7-300/400 to S7-1500: [siemens.com/s7-300/400-s7-1500](https://www.siemens.com/s7-300/400-s7-1500)
  - From SIMATIC S5 to S7-1500: [siemens.com/s5-s7-1500](https://www.siemens.com/s5-s7-1500)
- From SIMATIC WinAX RTX to S7-1500 software controller: [siemens.com/winax-rtx-s7-1500](https://www.siemens.com/winax-rtx-s7-1500)
## Digital workflow with the TIA Portal

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<tr>
<td>SIMATIC S7-PLCSIM Advanced V1.0</td>
<td>Download: 6ES7823-1FE00-0YA5 DVD: 6ES7823-1FA00-0YA5</td>
<td>TIA Portal Cloud Connector V1.0</td>
<td>Download: 6ES7823-1CE00-0YA0 DVD: 6ES7823-1CA00-0YA0</td>
<td>On request</td>
<td>TIA Portal Openness</td>
<td><a href="http://support.automation.siemens.com/WW/view/de/109739072">http://support.automation.siemens.com/WW/view/de/109739072</a></td>
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<td>Siemens MindSphere</td>
<td>On request</td>
<td>Siemens MindSphere – Siemens Cloud for Industry</td>
<td>siemens.com/mindsphere</td>
<td>SIMATIC Target 1500S™ for Simulink® V1.0</td>
<td>Download: 6ES7823-1BE00-0YA5</td>
<td>TIA Portal Teamcenter Gateway V14</td>
<td>Download: 6ES7823-1EE00-0YA5 DVD: 6ES7823-1EA00-0YA5</td>
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## Integrated engineering with the TIA Portal

### PLC programming

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<td>SIMATIC STEP 7 V14 Professional</td>
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<tr>
<td>SIMATIC STEP 7 V14 Basic</td>
<td>Download: 6ES7822-0AE04-0YA5  DVD: 6ES7822-0AA04-0YA5</td>
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<tr>
<td>SIMATIC STEP 7 V14 Safety Advanced</td>
<td>Download: 6ES7833-1FA14-0YH5  DVD: 6ES7833-1FA14-0YA5</td>
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<tr>
<td>SIMATIC STEP 7 V14 Safety Basic</td>
<td>Download: 6ES7833-1FB14-0YH5  DVD: 6ES7833-1FB14-0YA5</td>
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<tr>
<td>SCOUT/SCOUT TIA V4.5 (SIMOTION)</td>
<td>Download: 6AU1810-1BA45-0XH5  DVD: 6AU1810-1BA45-0XA0</td>
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<td>to be released December 2016</td>
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### Visualization

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<tr>
<td>SIMATIC WinCC Basic V14</td>
<td>Download: 6AV2100-0AA04-0AH5  DVD: 6AV2100-0AA04-0AA5</td>
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<tr>
<td>SIMATIC WinCC Comfort V14</td>
<td>Download: 6AV2101-0AA04-0AH5  DVD: 6AV2101-0AA04-0AA5</td>
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<tr>
<td>SIMATIC WinCC Advanced V14</td>
<td>Download: 6AV2102-0AA04-0AH5  DVD: 6AV2102-0AA04-0AA5</td>
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<tr>
<td>SIMATIC WinCC Professional with 512 or more</td>
<td>Download: 6AV2103-0DA04-0AH5  DVD: 6AV2103-0DA04-0AA5</td>
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<td>PowerTags V14</td>
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<td>SIMATIC Visualization Architect V14</td>
<td>Download: 6AV2107-0PX04-0AH5  DVD: 6AV2107-0PX04-0AA5</td>
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### Motion Control

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<td>SINAMICS Startdrive V14</td>
<td>Download: 6SL3072-4EA02-0XG0  DVD: 6SL3072-4EA02-0XA0</td>
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### Motor Management

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<tr>
<td>SIMOCODE ES V14 Standard</td>
<td>Download: 3ZS1322-5CE12-0YB5  DVD: 3ZS1322-5CC12-0YA5</td>
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<td>SIMOCODE ES V14 Premium</td>
<td>Download: 3ZS1322-6CE12-0YB5  DVD: 3ZS1322-6CC12-0YA5</td>
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### Soft Starter

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<tr>
<td>SIRIUS Soft Starter ES V14 Standard</td>
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<td>SIRIUS Soft Starter ES V14 Premium</td>
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### Working on a team

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<td>TIA Portal Multiuser Engineering V14</td>
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### High-level language integration

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<td>Download: 6ES7806-2CD02-0YG0  DVD: 6ES7806-2CD02-0YA0</td>
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## Transparent operation with the TIA Portal

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<td>WinCC WebUX Monitor with one or more clients</td>
<td>Download: 6AV6362-2AB00-0AH0</td>
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<td>DVD: 6AV6362-2AB00-0BB0</td>
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<tr>
<td>SIMATIC WinCC Sm@tServer for SIMATIC Basic Panels</td>
<td>Download: 6AV2107-0CR00-0BH0</td>
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<td>DVD: 6AV2107-0CR00-0BB0</td>
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<tr>
<td>SIMATIC WinCC Sm@tServer for SIMATIC Comfort/Mobile Panels</td>
<td>Download: license-free</td>
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<tr>
<td>SIMATIC WinCC Sm@tServer for Runtime Advanced</td>
<td>Download: 6AV2107-0CA00-0BH0</td>
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### Energy Management

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<tr>
<td>Engineering</td>
<td>Download: 6AV2108-0AA04-0AH5</td>
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<tr>
<td>SIMATIC Energy Suite V14 Engineering incl. 10 Energy Objects (2x5 EnO)</td>
<td>DVD: 6AV2108-0AA04-0AA5</td>
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<tr>
<td>Energy Suite Runtime</td>
<td>Download: 6AV2108-0CF00-0BH0</td>
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<tr>
<td>SIMATIC Energy Suite S7-1500, from 5 Energy Objects up (1x5 EnO)</td>
<td>DVD: 6AV2108-0CF00-0BB0</td>
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### Communication

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<tr>
<td>SIMATIC OPC UA S7-1500 small [ET 200SP to S7-1513(F) + 1505S(F)]</td>
<td>Download: 6ES7823-0BE00-1BA0</td>
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<td>DVD: 6ES7823-0BA00-1BA0</td>
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<tr>
<td>SIMATIC OPC UA S7-1500 medium [S7-1515/S7-1516(F) + 1507S(F)]</td>
<td>Download: 6ES7823-0BE00-1CA0</td>
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<td>DVD: 6ES7823-0BA00-1CA0</td>
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<tr>
<td>SIMATIC OPC UA S7-1500 large [S7-1517/S7-1518(T) (F) (ODK)]</td>
<td>Download: 6ES7823-0BE00-1DA0</td>
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<td>DVD: 6ES7823-0BA00-1DA0</td>
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### Machine and plant diagnostics

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<tr>
<td>Runtime</td>
<td>Download: 6ES7823-0AE00-1AA0</td>
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<tr>
<td>SIMATIC ProDiag S7-1500 for 250 supervisions</td>
<td>DVD: 6ES7823-0AA00-1AA0</td>
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<tr>
<td>SIMATIC ProDiag for SIMATIC Comfort/Mobile Panels</td>
<td>Download: 6AV2107-0UP00-0BH0</td>
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<tr>
<td>SIMATIC ProDiag for WinCC Runtime Advanced</td>
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<tr>
<td>SIMATIC ProDiag for WinCC Runtime Professional</td>
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More information at: siemens.com/energysuite and Webux: siemens.com/wincc-webux
## Software packages and options

<table>
<thead>
<tr>
<th>Scope of services</th>
<th>SIMATIC STEP 7 V14/STEP 7 Safety</th>
<th>SIMATIC WinCC</th>
<th>SINAMICS Startdrive</th>
<th>SIMOTION SCOUT TIA</th>
<th>SIRIUS SIMOCODE</th>
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<tbody>
<tr>
<td>Basic Controller – SIMATIC S7-1200 (F)</td>
<td>Basic</td>
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<td>Advanced Controller – SIMATIC S7-1500 and SIMATIC S7-300/400 (F)</td>
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<td>Distributed Controller – SIMATIC ET 200CPUs (F)</td>
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<td>Basic Panels and 2nd Generation</td>
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<td>Comfort Panels and X77 and Mobile (without Micro)</td>
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### Engineering options
- TIA Portal Multiuser Engineering
- TIA Portal Teamcenter Gateway
- TIA Portal Cloud Connector
- SIMATIC Energy Suite ES
- SIMATIC PLCSIM Advanced
- SIMATIC STEP 7 Safety
- SIMATIC ODK 1500S
- SIMATIC Target 1500S for SIMULINK
- SIMATIC Visualization Architect

### Runtime options
- SIMATIC ProDiag
- SIMATIC Energy Suite RT
- SIMATIC OPC UA
- WinCC/WebUX

### Software packages
- SIMATIC STEP 7 V14
- STEP 7 Safety
- SIMATIC WinCC
- SIMATIC ODK 1500S
- SIMATIC Target 1500S for SIMULINK
- SIMATIC Energy Suite ES
- SIMATIC PLCSIM Advanced
- SIMATIC STEP 7 Safety
- SIMATIC ODK 1500S
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