



SIEMENS



Version
8.2

[siemens.com/simatic-pcs7](https://www.siemens.com/simatic-pcs7)

Operational Excellence: Intuitive operations and efficient engineering

SIMATIC PCS 7 – Performance you trust

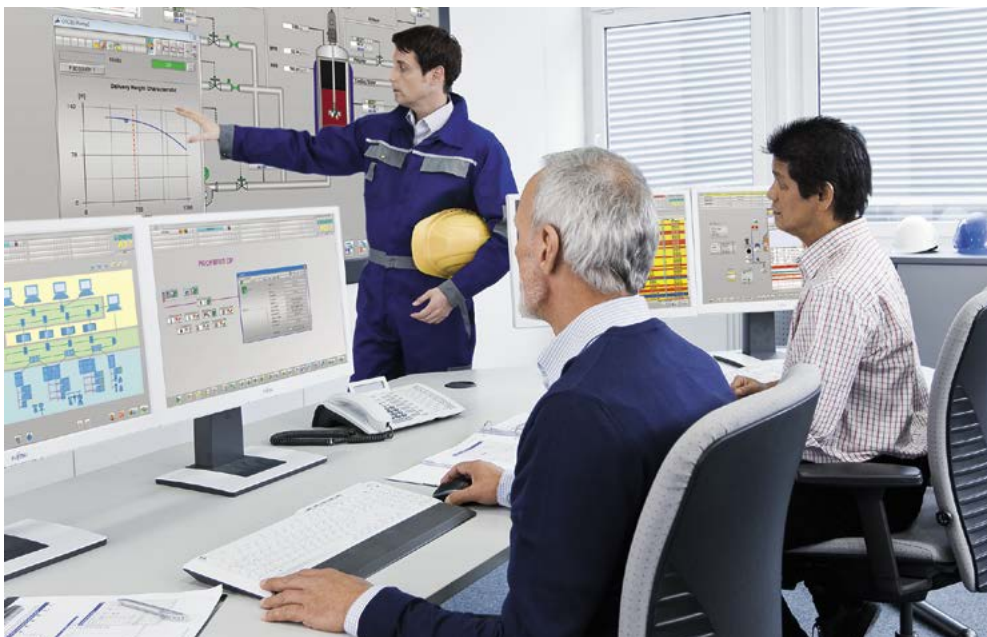
Systematic delivery of requirements

Providing continuous operation and consistent product quality while reducing plant costs are only a few of the many challenges faced by the process industry today. The control system plays a central role in meeting these industry challenges. The DCS enhances the user functionality with intuitive operation and enable you to increase production. Given the growing complexity of today's processes and the expanding range of tasks for engineers, operators and maintenance staff, the importance of productivity is more important than ever. The challenge is that, each group of users has different requirements for the process control system, for example, speed, performance, or usability.

Siemens SIMATIC PCS 7 process control system enables you to respond to those challenges. It combines continuous innovation with years of experience and fulfills the expectations of all user groups.

SIMATIC PCS 7

- Enables continuous, safe operation
- Can be scaled to meet any requirements
- Ready for the future



SIMATIC PCS 7 process control system – Version 8.2 is available!

SIMATIC PCS 7 enables continuous and safe operation

Plant shutdowns considerably reduce the economic efficiency of process plants.

- Redundantly configured automation components ensure maximum plant availability
- Online expansions and updates shorten or prevent downtimes within planned upgrades or modernization
- Integrated safety concepts ensure continuous operation of your plants and protection of people, machines and the environment
- Meets the highest IT security requirements for protection against unauthorized access to your production facilities

SIMATIC PCS 7 can be scaled to meet any requirements

From laboratory automation, to small and medium-sized production plants with flat system architectures, all the way to large production complexes based on client-server architectures with virtually an unlimited number of I/O signals:

- Thanks to its flexibility and scalability, SIMATIC PCS 7 optimally adapts to your needs.

SIMATIC PCS 7 is ready for the future

A key requirement in process automation is the digitization of the production plant and thus the complete acquisition and use of information in a consistent data model for:

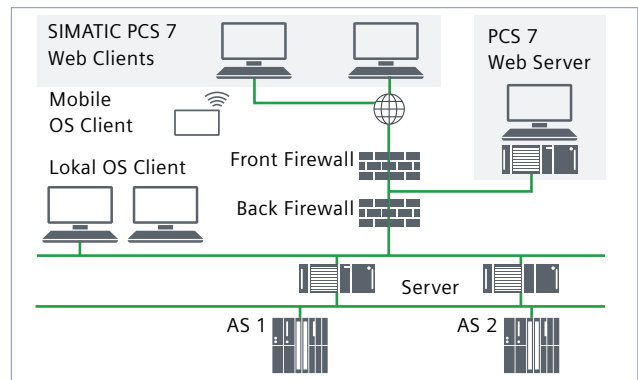
- Lifecycle engineering and plant management
- Simulation
- Virtualization or mobile applications
- Energy-efficient operation
- Remote maintenance
- Predictive maintenance
- Remote services

SIMATIC PCS 7 V8.2 – Highlights of the new version

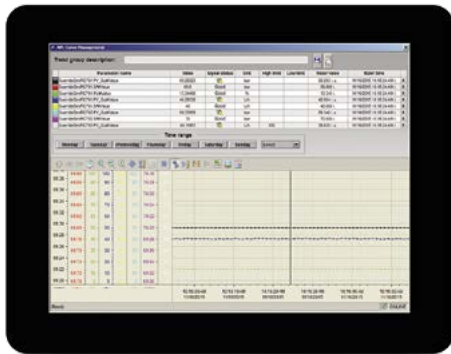
Mobile plant monitoring

SIMATIC PCS 7 Web

SIMATIC PCS 7 Web can be used to operate and monitor a plant via Intranet or Internet. Extensive configuration options enable individualized and secure online access to the operator control and monitoring level of the production plant. This enables remote control room concepts to be realized.



Mobile plant monitoring



Use of mobile devices

Use of mobile devices

The new version expands the integration of mobile devices for plant monitoring even further. You can now display key production figures, trend or alarm information on smartphones or tablets– regardless of the operating system.

Process Device Manager

SIMATIC PDM Process Device Manager enables plant-wide access to all field devices. Diagnostics, maintenance, parameter assignment, configuration and commissioning can now be performed from mobile terminal devices with standard web browsers or from any plant computer. No additional installation work is needed to turn both office computers and mobile devices into service stations for field devices.

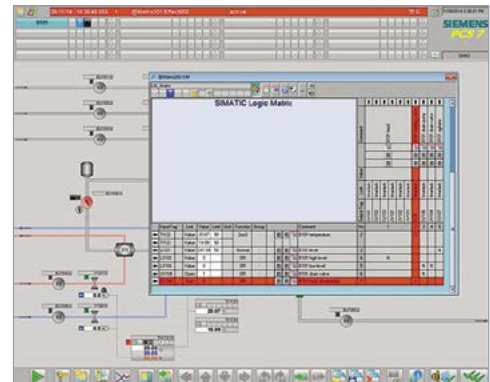


SIMATIC PDM

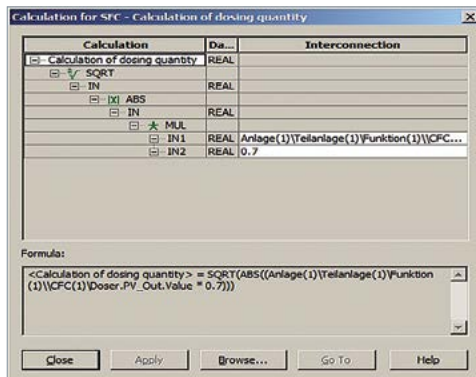
Efficient plant engineering

Logic Matrix

The new Logic Matrix feature simplifies the engineering and operational visibility of trip and interlocking logic in the production plant based on the cause-effect principle. The Logic Matrix scales to support small to large configurations and bulk data can be handled with automated interconnection rules. Logic Matrix can also be efficiently edited within Microsoft Excel.



Logic Matrix



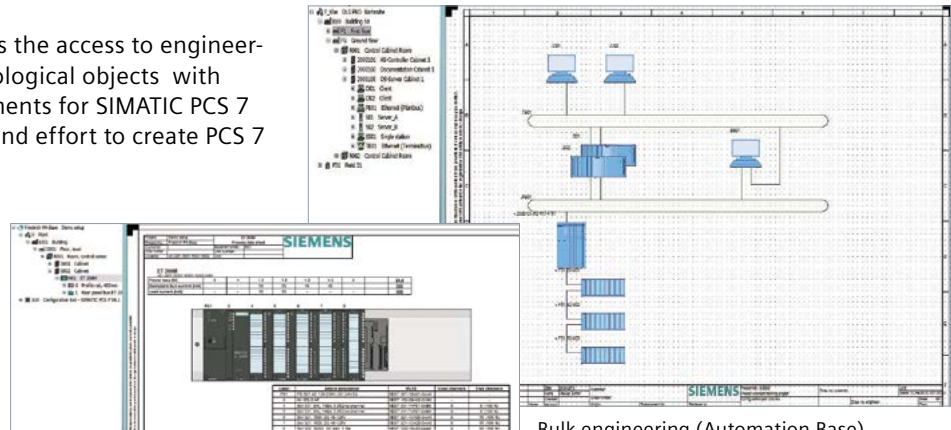
SFC

Sequential Function Chart engineering

The calculations and comparison functions of Sequential Function Chart (SFC) are now performed at a central location in the SFC Editor. This helps the plant personnel to analyze the process faster and better than before. In addition, SFC engineering is simplified. This minimizes errors and reduces the time needed for configuration.

Bulk engineering

Version 8.2 significantly expands the access to engineering data for example, the technological objects with detailed logic and related documents for SIMATIC PCS 7 projects. This reduces the time and effort to create PCS 7 documentation.

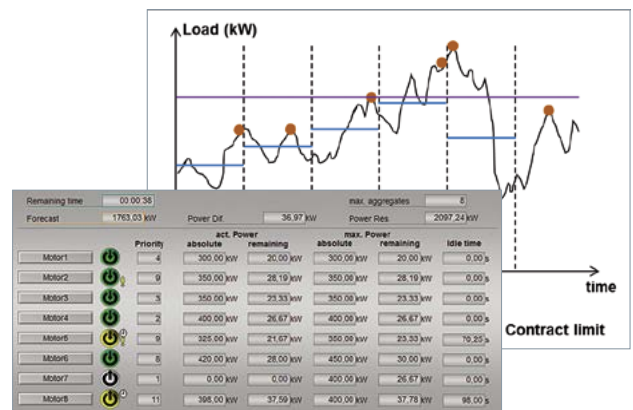


Bulk engineering (Automation Base)

Industry-specific applications

Load management

In order to avoid load peaks in electrical power usage, SIMATIC PCS 7 now offers integrated monitoring of all energy-related consumption data for the entire plant. The load management functions for controlling consumers such as drives are now part of the technology library and can be easily implemented. Plant operation is therefore maintained within the contractually agreed purchasing conditions, and targeted optimization of the energy consumption is achieved.



Load management



TeleControl technology

For widely distributed plants, such as those that occur in the oil and gas industry (e.g. pipelines) or in water management, the integration of remote stations is implemented in the process control system via remote control systems such as TeleControl. Remote stations can now be equipped with the new SIMATIC RTU3030C.

This remote control unit is largely self-sufficient with its own power supply and features minimal energy consumption as well as on-demand communication. In order to meet requirements in terms of increased availability, out-stations can also be configured redundantly.

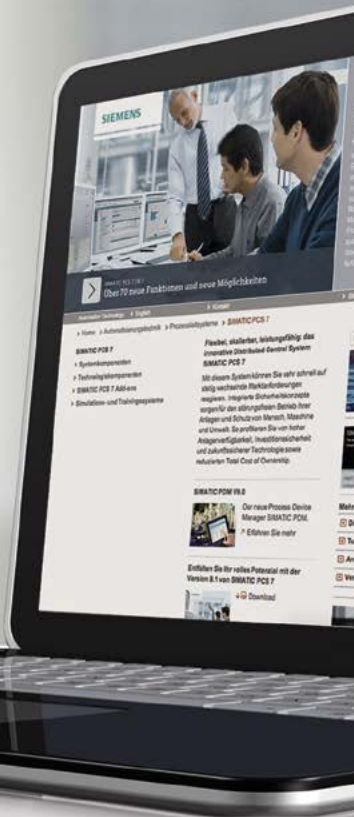


You can find more here:
siemens.com/simatic-pcs7

Experience the process control system SIMATIC PCS 7

- Mobile plant monitoring
- Efficient plant engineering
- Intuitive plant operations

SIMATIC PCS 7
V8.2 – at a glance!



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You can register there to receive a product-specific newsletter.

To ensure the secure operation of a plant or machine it is also necessary to take suitable preventive action (e.g. cell protection concept) and to integrate the automation and drive components into a state-of-the-art holistic industrial security concept for the entire plant or machine. Any third-party products that may be in use must also be taken into account. Please find further information at: <http://www.siemens.com/industrialsecurity>

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