The SCADA system inside TIA Portal
Efficiency and transparency for your plant
SIMATIC WinCC Professional
The SCADA system for multi-user solutions inside TIA Portal

With SIMATIC WinCC Professional, Siemens offers a SCADA system which is perfectly integrated in the TIA Portal and with which you are optimally prepared today for the requirements of the increasing digitalization of production processes.

The requirements of the future
The data volume in modern industrial plants is growing continuously. Modern and powerful SCADA solutions today must be able to quickly process huge amounts of data and archive this data for long periods. At the same time, new technologies are introduced in the industry and global solutions require mobile access to all of the plant information. In addition to increasing productivity, energy efficiency is an important factor in reducing the overall costs.
**Increase your efficiency with the TIA Portal**

**SIMATIC HMI software in the TIA Portal – more than just a visualization software**
From machine-level visualization all the way to the powerful SCADA system, SIMATIC WinCC inside TIA Portal, with its efficient tools, covers the entire engineering and visualization software spectrum for the human machine interface – integrated across all performance classes!

**The system solution for efficient production**
SIMATIC WinCC Professional and SIMATIC industrial PCs form a high-performance and flexible platform for the acquisition, evaluation and visualization of data. Thus you rely on a coordinated development and integrated end-to-end functionality of hardware and software, which pays off over the entire life cycle.

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**Hardware**
- **Basic HMI**
  - Key Panels
  - Basic Panels
- **Advanced HMI**
- **SCADA**
  - PC-based
    - Industrial PCs, monitors, thin clients, devices for special requirements
  - Panel-based
    - Comfort Panels
    - Mobile Panels

**Software**
- **WinCC Basic**
  - For simple solutions with HMI Basic Panels
- **WinCC Comfort**
  - For complex solutions with all HMI Panels
- **WinCC Advanced**
  - Engineering and runtime software for simple single-user systems, especially on the machine level
- **WinCC Professional**
  - Engineering and runtime software for comprehensive multi-user systems and SCADA solutions in small and medium-sized plants
Industry-standard HMI functions
• Reporting and acknowledging of events
• Archiving of messages and measured values
• Logging of all process and configuration data
• Integrated user management with SIMATIC Logon
• Flexibly expandable through VB and C scripts

Security of investment:
• Reduced life cycle costs due to minimized engineering, training, maintenance and service effort
• Reuse and standardization
• Import of the configuration from WinCC flexible and from WinCC V7

Simple and fast configuring...

Powerful and intelligent tools for...
• Efficient engineering
• Optimum interaction of controller and HMI
• Multilingual for international projects
• Comprehensive library concept
• Automatic generation of the HMI visualization with SiVarc

SIMATIC WinCC Professional
Consistent data throughout the entire production...

...is the basis for a transparent plant
High-performance and reliable archiving of production data, even comprehensively in a central process historian.

PC hardware for industrial solutions

The system platform comprising SIMATIC industrial PCs and SCADA software – in combination as attractive packages.

siemens.com/wincc-tia-portal
siemens.com/scada-ipc
...for efficiency and transparency in operation!

...high user-friendliness... Implement clearly arranged applications with modern HMI operation concepts for uniquely fast and efficient operator control using intuitive gestures.

...and worldwide, web-based access
Operator control and monitoring from wherever you want – also with target group-oriented dashboards, reports and analysis of your production data.

Information hub for corporation-wide vertical integration

Transparent production...
...for optimized processes
So that you can make the right decisions – quickly, anytime, anywhere.

Energy transparency...
...for energy savings according to ISO 50001
Low-cost and energy-efficient production in accordance with the latest legal stipulations.

Increased availability...
...of machines and production plants
Reduce production outages by combining integrated system diagnostics and efficient process diagnostics.

Open communication...
...connects the automation and IT world
Easily transfer your production data to higher-level systems via standard interfaces.
Options for SIMATIC WinCC Professional

Software expansions for individual requirements

WinCC Professional options*

- Easily scalable
- WinCC Server/WinCC Client for client/server systems
- WinCC Redundancy for increased availability
- SIMATIC Process Historian – the powerful, plant-wide long-term archive
- WinCC/WebNavigator – operator control and monitoring via the Internet/Intranet
- WinCC/WebUX – mobile access to important plant information

Efficiency in operations control

- WinCC Recipes – administration of user data records
- SIMATIC Information Server – web-based reports of historical plant data based on the Microsoft Reporting Services or with Microsoft Office
- SIMATIC Energy Suite – efficient linking of energy management with automation
- SIMATIC Energy Manager PRO, SIMATIC B.Data, manages the consumption efficiently and across sites
- SIMATIC ProDiag – machine and plant diagnostics for the efficient analysis of process faults

Related products

- WinCC/IndustrialDataBridge – bidirectional exchange of data via standard interfaces without programming overhead

* Please observe the release of individual options
Efficiency

SIMATIC WinCC Professional combines efficient engineering in the TIA Portal with powerful diagnostics and archiving. Thus you benefit from shorter time-to-market, minimized downtimes, and transparency in production.

Scalability

To cover increasing demands, we offer stationary and mobile solutions – security guaranteed. You can expand your existing plants without any problems and secure your investments.

Innovation

Stay informed with mobile SCADA solutions anywhere and anytime – also with existing tablet and smartphone hardware. The use of multi-touch gestures in the industrial environment opens the door for modern operating concepts.

Openness

Through the support of international standards, you are able to easily integrate your SCADA solution in the IT world.

Universal application – solutions for many industries and technologies

SIMATIC WinCC Professional is of modular design and can be easily expanded. It is used worldwide in single-user applications in mechanical engineering as well as in PC-based multi-user solutions with redundant servers or web-based client access. References from many industries prove the versatility and performance capability:

- Mechanical and plant engineering
- Metalworking industry
- Automobile production and suppliers
- Pharmaceutical industry
- Food, beverage and tobacco industries
- Trade and services sector
- Plastics and rubber industry
- Paper production and processing

For more information, go to the reference center:

siemens.com/scada-references
Find out more:
siemens.com/wincc-professional

SIMATIC WinCC Professional –
the SCADA system inside TIA Portal:
• Efficiency in engineering
• Scalable to cover increasing demands
• Innovative through mobile SCADA
• Open for simple integration

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