

EF

SIMATIC PCS 7

Ascent into a secure future

Upgrade to SIMATIC PCS 7 V9

Process plants should work efficiently for decades. This requires continuous modernization measures. These are not limited to machines and equipment, but also affect the individual management, operation and automation levels. These areas assume decisive functions with regard to plant availability and security. They must never be neglected in the modernization concept!

What does it mean for plant owners and operators when an operating system such as Windows 7 and the corresponding server generation has reached the end of support¹ in the age of digitalization and increased networking? There is an urgent need for action! Since new security-relevant software and security updates as well as technical support are no longer available. Criminals can thus use newly discovered vulnerabilities specifically for cyber attacks. Prevent the danger of increasing cyber attacks and unplanned plant downtime by upgrading older systems at the operational and management level. An up-to-date automation and control system level meets current security standards, increases competitiveness and prevents rising maintenance costs. A plant modernization protects against unplanned plant shutdowns and sustainably secures production. In addition, future security is increased and added value can be generated simultaneously!

¹ further information on https://support.microsoft.com/

SIMATIC PCS 7 V9: Your starting point for new perspectives

Why should a control system also be regularly upgraded to state-of-the-art technology? By upgrading to version 9 of our proven process control system, you ensure compatibility with current and common Windows operating systems for clients and servers - including appropriate security updates and current anti-virus software. The corresponding SIMATIC PCS 7 version for clients and servers is already pre-installed on a new Industrial Workstation (IPC) when delivered. In addition, you also gain access to innovations in terms of digitalization, availability and increased efficiency. See for yourself!

Your starting point for new perspectives

Why should a control system also be regularly upgraded to state-of-the-art technology? By upgrading to version 9 of our proven process control system, you ensure compatibility with current and common Windows operating systems for clients and servers - including appropriate security updates and current anti-virus software. The corresponding SIMATIC PCS 7 version for clients and servers is already pre-installed on a new Industrial Workstation (IPC) when delivered. In addition, you also gain access to innovations in terms of digitalization, availability and increased efficiency. See for yourself!

The future-oriented Advanced Process Library (APL) is the integrated standard system library of SIMATIC PCS 7. Modular software functions as well as preconfigured and system-tested function blocks, faceplates and symbols are organized in this library and form the basic elements for the graphical configuration of automation solutions. The use of APL elements makes a significant contribution to minimizing engineering effort and thus project costs. Thanks to low maintenance costs, the library allows more economical operation in the long term.

Accelerate commissioning

Simulations form the basis for more performance over the entire plant life cycle and enable virtual commissioning. For this purpose, the SIMIT simulation platform works seamlessly with SIMATIC PCS 7. SIMIT covers the entire range of real-time simulation for comprehensive tests of automation applications. Even during the upgrade phase and thus well before real commissioning, the simulation platform can be used to virtually evaluate the future behavior of the modernized control system. This reduces possible errors, increases the engineering quality and ensures smooth and accelerated recommissioning.

Increase performance and availability

The SIMATIC PCS 7 CPU 410-5H automation system is an essential component of the SIMATIC PCS 7 V9 process control system certified by TÜV SÜD, the German Technical Inspection Authority, in accordance with IEC 62443-3-3. It is scalable and designed for different safety and availability levels. The CPU 410-5H is currently the fastest and most powerful controller on the market. It covers the entire performance range of the conventional SIMATIC S7-400 automation systems AS 412 to AS 417. Existing installations can be expanded or converted with little effort using the SIMATIC PCS 7 controller.





Your Upgrade

Individual and customized

Secure the advantages that a control system upgrade will bring you today! Many of our customers are already using our proven, individual and semi-automatic upgrade solutions, where existing assets such as libraries, engineering data and licenses are preserved or converted. Furthermore, there is also the possibility of implementing new functions and innovation. In addition to the graduated upgrade packages, we also offer other special support services such as Legacy System Services (LSS). They guarantee the provision of components with the status "obsolete" during upgrade measures. This provides the necessary freedom for planning and step-by-step implementation of the modernization measures. And for those who want to carry out updates proactively, plannably and cost-effectively in the long term, a Software Update Service contract provides all updates within the contract period.

Here is an overview of the available upgrade options:





Charter of Trust

We are signing for Cybersecurity

Strong partner

with security!

Siemens has considerable experience and expertise in automation, digitization and electrification. Our holistic approach to secure safety combines product, system and operational security safety . Siemens AG is one of the initiators of the Charter of Trust for appropriate rules for cyber security in networked life and security standards along the entire supply chain. With "Defense in Depth" we provide a multi-layered security concept that offers industrial plants comprehensive and far-reaching protection in accordance with the recommendations of the international standard IEC 62443. The security concept of our control systems is also based on the staggered security architecture. It is not limited to the use of individual security procedures (e.g. authentication and encryption) or security devices such as firewalls. Rather, its strength is based on the combination of individual security measures and the interaction in the plant network. Trust in secure solutions, secure operator concepts and secure, IEC-compliant system integration and solution implementation from Siemens!

Your benefits:

- Current systems offer optimal protection against cyber attacks
- Proactive upgrade strategies increase plant availability
- Safeguarding of know-how: complete takeover of engineering data optimized over years is possible
- The conversion of existing data and licenses protects the value of your investment
- Cost-efficient extension of the plant's lifetime
- Increase your productivity and product quality with the latest innovations around the digital twin

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

Siemens AG Digital Industries Process Automation Oestliche Rheinbrueckenstrasse 50 76187 Karlsruhe, Germany

Subject to change without prior notice Article No. DIPA-B10152-00-7600 DISPO 45000 Printed in Germany © Siemens 2020

