



**SIEMENS**

HYPERCONVERGENT IT INFRASTRUCTURE

# Industrial Automation DataCenter

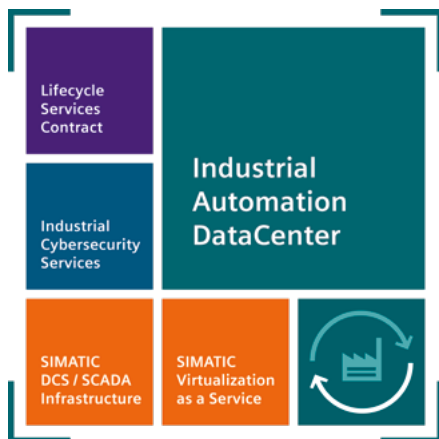
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# IT infrastructure in OT environments requires automation experience

Digital developments, which have long been a normal feature in the office IT environment, are also increasingly gaining importance in the automation environment. Here, the requirements of Operational Technology (OT) differ greatly from those of office IT, for example due to long asset lifecycles with discontinued systems, high system heterogeneity, and plant availability as the uppermost goal. The technical implementation cannot be applied 1:1 here. That is why experience in the automation environment is vital.

The Industrial Automation DataCenter from Siemens is an individually configured data center for all IT requirements in production, developed by Siemens experts with bundled know-how in automation, digitalization and CyberSecurity.

It facilitates entry into the future-oriented, digitalized infrastructure in the industrial environment.



## The perfect symbiosis of hardware, software and services

### Hyperconvergent IT infrastructure for your shopfloor applications

The Industrial Automation DataCenter (IADC) is an individually configurable data center, perfectly tailored for your plant for on-site usage in production.

The system fulfills the special requirements in production and comprises all the important core components of a data center, such as high-performance computing (high availability), IT/OT networks, backup & disaster recovery, process data archiving, uninterruptible power supply and a security architecture in accordance with IEC 62443.

The result of this perfect symbiosis of hardware, software and services is a ready-to-use hyperconvergent IT infrastructure for OT environments – from a single source.

### Modular setup of your new IT platform

By means of virtualization, the IADC integrates a large number of applications such as SIMATIC PCS 7, SIMATIC STEP 7, TIA Portal, SIMATIC WinCC, SIMIT and COMOS, and even third-party software, on a common hardware platform.

The different hardware variants enable individual scaling of the data center, including all the necessary lifecycle services. Our resource upgrades support rapid reactions to new requirements.

Our portfolio is rounded off by systems and functions for data archiving, backup and restore, IT security and increased availability. In addition, the holistic approach offers consultancy, implementation and optimization across the entire lifecycle.

### Pre-configured and tested hardware and software components

Front-end firewalls	
Industrial DMZ	
Back-end firewalls	
IT network	
Computing	
Backup and disaster recovery	
Process Historian	
OT network	
Uninterruptible power supply	



**Service Package:**  
Pre-installation and configuration of the servers, technical support, system documentation and after-sales service

**Virtual Machines:**  
Provision of a ready-to-run virtual machine

**Pre-installed Hypervisor:**  
Installation of the virtualization layer

**Configured host:**  
Server hardware and management console

## SIMATIC Virtualization as a Service

### Real added value through virtualization

SIMATIC Virtualization as a Service (SIVaaS) is breaking new ground when it comes to the optimized maintenance and modernization of PC-based control systems.

The comprehensive service concept uses the possibilities of digitalization to virtualize the entire system.

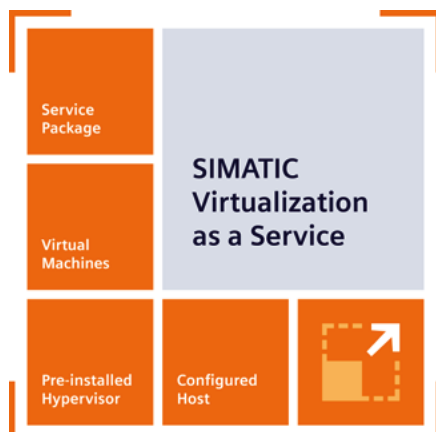
The service includes the setup of the virtualization server, configuration of virtual machines (VMware), installation and configuration of the operating system, and installation of the ready-to-run applications.

### Innovative concepts are essential for optimum maintenance and modernization of your process control systems

SIVaaS is a future-oriented virtualization solution that addresses all the central requirements of a control system with maximum efficiency and cost effectiveness: optimum use of the hardware, simple system extensions or updates, central administration and maintenance as well as fast and competent support over the entire lifecycle.

With SIVaaS, you can achieve the maximum availability of your system.

We have extensive expertise in hosting the applications SIMATIC PCS neo, SIMATIC PCS 7, SIMATIC STEP 7, SIMATIC WinCC, TIA Portal, BRAUMAT, SISTAR, SIMIT, COMOS and DESIGO CC.



**Find out more!**



# SIMATIC DCS/SCADA Infrastructure

## IT infrastructure for data archiving, visualization and backup

The Siemens SIMATIC DCS/SCADA Infrastructure service concept provides a high-performance, pre-configured IT infrastructure with pre-installed software.

This prefabricated all-in-one system facilitates an efficient engineering and commissioning phase based on the SIMATIC PCS 7 Process Historian/Information Server and simultaneously provides hardware and software for backup & restore including the corresponding lifecycle services.

You benefit from a turnkey, complex architecture that holistically optimizes the utilization of your hardware resources.

### Service Packages:

A service contract for 3 or 5 years is an integral component. The service contract includes all spare parts and on-site support.

### Storage options:

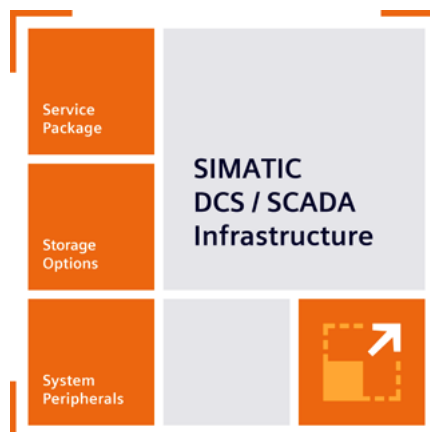
Archiving and visualization of data with Process Historian/Information Server software. In an emergency, we also offer a solution for restore/backup of the data.

### System peripherals:

Operation and monitoring of ongoing production via the PCS 7 operator station



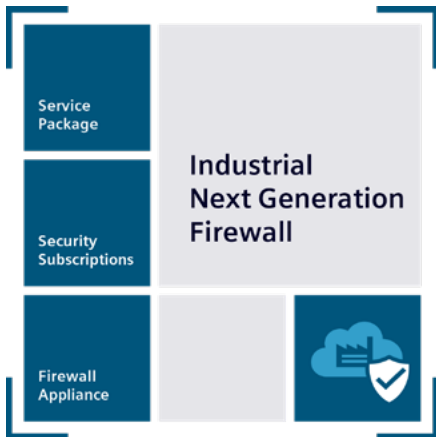
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# Industrial Cyber-security Services

Specific security concepts for the industry – in accordance with IEC 62443. These security solutions are already integrated in the Industrial Automation DataCenter:

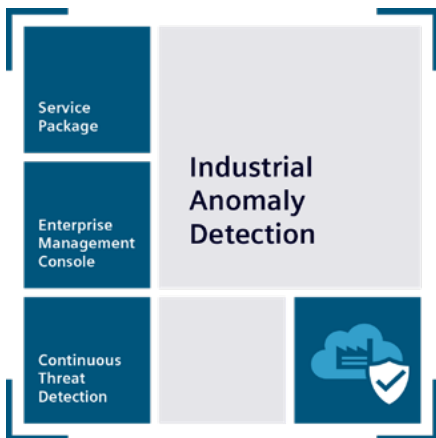
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## Continuous protection of the network with Industrial Next Generation Firewall

Industrial Next Generation Firewall is a perimeter protection facility in accordance with the security requirements for industrial automation – tested and approved for use with the Siemens process control system.

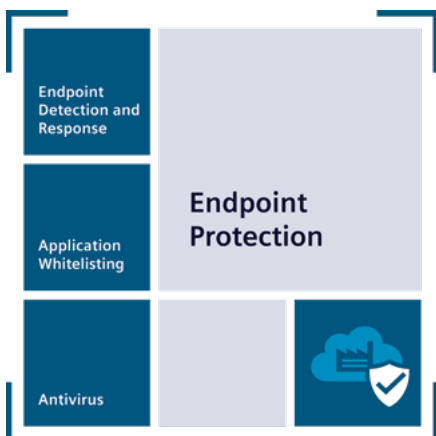
The first-class firewalls are available in different performance classes and not only work as port filters, but also analyze the Layer 7 data traffic at the application level. Additional security subscriptions like threat detection and URL filtering as well as a service contract round off the portfolio.



## Early detection of cyber threats thanks to Industrial Anomaly Detection

Industrial Anomaly Detection creates transparency over assets and their data traffic as well as increased security through continuous and proactive detection of changes in the system.

With the continuous threat detection software, the current data traffic is compared with a baseline of the normal operation. The Enterprise Management Console allows monitoring and event management with minimal configuration. A service contract is an integral part.



## Continuous protection from malware with Endpoint Protection

With Endpoint Protection, Siemens offers two different approaches to malware protection of the end points: Antivirus protection blocks the execution of harmful applications, while application whitelisting only permits the execution of previously defined, trusted applications and blocks everything else.

Moreover, Siemens also offers services for customers with EDR (Endpoint Detection and Response) solutions from third-party providers.

# Siemens is your reliable partner for IT infrastructure in OT environments

Benefit from the Industrial Automation DataCenter



Combined expertise in automation, digitalization and cybersecurity



Integrated solutions comprising hardware, software and services



Comprehensive turnkey concept for IT infrastructures in the automation environment and Industry 4.0



State-of-the-art technology and holistic services including consultancy and configuration – everything from a single source, directly from the manufacturer



Promote digitalization with simultaneous high availability, reliability and security



Long-term protection through continuous security management

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IADC**



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