SIMATIC Virtualization as a Service
Efficient for virtualization
Future-proof modernization of process control systems

Apart from the preventive maintenance of the hardware platform, it is particularly the maintenance and care of the installed software components which is decisive for the lifecycle costs of a PC-based control system. The integration of IT-technologies into the industrial environment enables innovative concepts here as well, such as system virtualization.

“SIMATIC Virtualization as a Service” offers a simple introduction into this forward-looking technology.
Efficient service and maintenance

SIMATIC Virtualization as a Service

Siemens Industry Services provide the lifecycle services and the suitable hardware and software components for your virtualization solution - all perfectly compatible and from a single source.

Preconfigured host system
The system platform consists of the HP ProLiant server hardware and a management console.
The host server is available in different performance classes.

Preinstalled hypervisor
A virtualization layer that distributes the resources of the physical hardware to the virtual machines (VMs) is installed on the system platform.
VMware vSphere is used as the virtualization software.
VMware vCenter Server is available for the optimum management of multiple host systems.

Virtual machines
The ready-to-run virtual machines are delivered on the preconfigured system platform.
Microsoft Windows Server with an activated license is preinstalled on each virtual machine.
The virtual machines can include individually configurable, unlicensed installations of SIMATIC PCS 7 and SIMATIC WinCC software.

Service package
• Server preinstallation and configuration
• Technical support for all installed components
• Documentation for the hardware/software components, technical manuals, user instructions and application examples

We also recommend: SIMATIC Remote Services and Managed Support Services
Lifecycle services for virtualized engineering and operator systems

The "Services for Virtualized Engineering and Operator Systems" program combines the recommended service offerings for a virtualized system, with SIMATIC Virtualization as a Service as a core element and optional auditing with SIMATIC System Audit. As a result, you are well-prepared, for example for any upcoming modernization work.

SIMATIC Remote Services are available during the operating phase, giving you fast and efficient support over a secure remote connection. With our Managed Support Services, a dedicated support manager prioritizes, monitors and coordinates all necessary service and support activities and acts as a central point of contact for efficient flow of information.

Finally, a Lifecycle Service Contract allows you to flexibly combine individual service offerings into a modular overall package that is perfectly tailored to the requirements of your virtualized system.
Virtualization benefits

- Ready-to-use systems make installation easy
- Ready-to-run templates allow you to upgrade system components fast and cost-effectively
- Optimized utilisation of existing hardware resources
- Low effort for system upgrades/updates
- Higher system availability and flexibility
- Easy system management and comprehensive support in combination with SIMATIC Remote Services and Managed Support Services

Up to 75% energy savings
Up to 80% less space required
100% lifecycle services from a single source
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.

Watch a short video to see how virtualization works.

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What is virtualization?

Virtualization decouples a computer’s operating system and application software from its hardware.

The operating system and the application software are made available in form of a virtual machine (VM).

The hypervisor handles the dynamic distribution of the hardware resources to the virtual machines.

The virtual machines are operated via energy-saving and cost-efficient thin clients.

System upgrades can be implemented quickly and efficiently with preconfigured VM templates.

The great advantage of a virtualized system lies in its central administration, diagnosis and maintenance.

Comprehensive support from a single source – for all installed components.