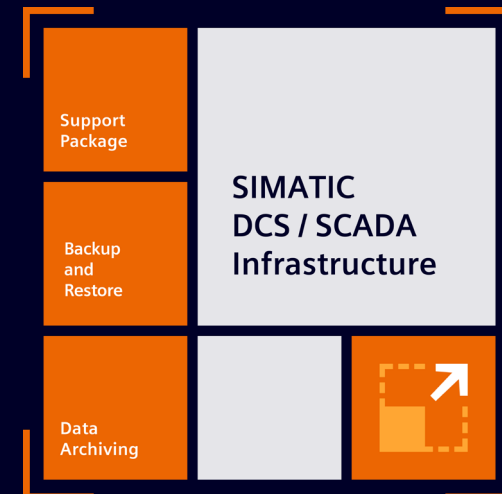




Data Archiving (part of SIMATIC DCS / SCADA Infrastructure)

Pre-configured IT infrastructure for data archiving



Complex IT systems require powerful data archiving

Operative challenges

- Massive volume and complexity of decisive information from historical plant data should be used and understood
- Knowledge of the potential coming from generated data often not maxed out
- In case of unforeseen plant failure, no documentation which batch is affected and when the error occurred exactly – can lead to product recalls
- Simplifying the installation of complex IT solutions is key

Data archiving, reporting and visualization increase the productivity and availability of the production infrastructure.

Plant data is valuable – utilize it!

Required solution



Powerful archiving, task specific reporting and visualization of the data



Data driven production with automated batch documentation



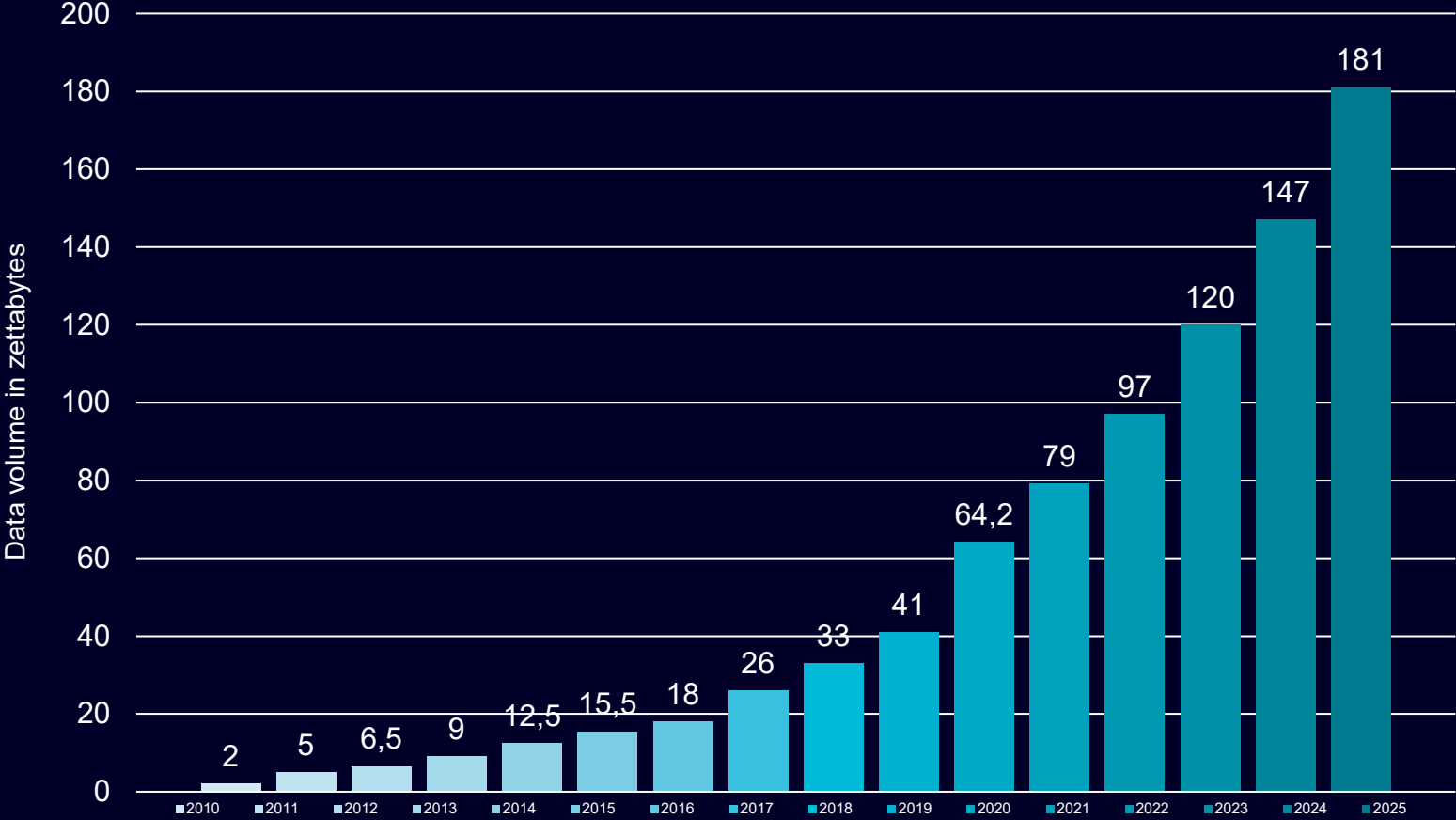
State of the art, pre-configured and preinstalled software on a powerful server system – one-stop

SIMATIC DCS / SCADA Infrastructure

Module „Data Archiving“

Keep in mind...

Volume of data/information created, captured, copied, and consumed worldwide from 2010 to 2020 – with forecasts from 2021 to 2025 (in zettabytes)



Source: [Statista - volume of data created, captured, copied and consumed worldwide](#)

Pre-configured IT infrastructure for optimized data handling with Data Archiving (SIMATIC DCS / SCADA Infrastructure)



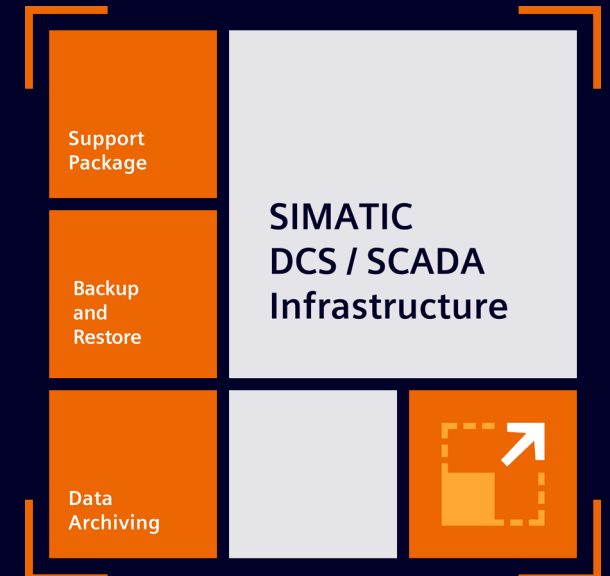
Solution

Data Archiving (as part of SIMATIC DCS/SCADA Infrastructure) provides a powerful and pre-configured IT infrastructure for optimized data handling and disaster recovery in industrial environments.

A prefabricated complete system ensures that the engineering and commissioning phase can be carried out as efficiently as possible. In addition, customized services cover the complete lifecycle.

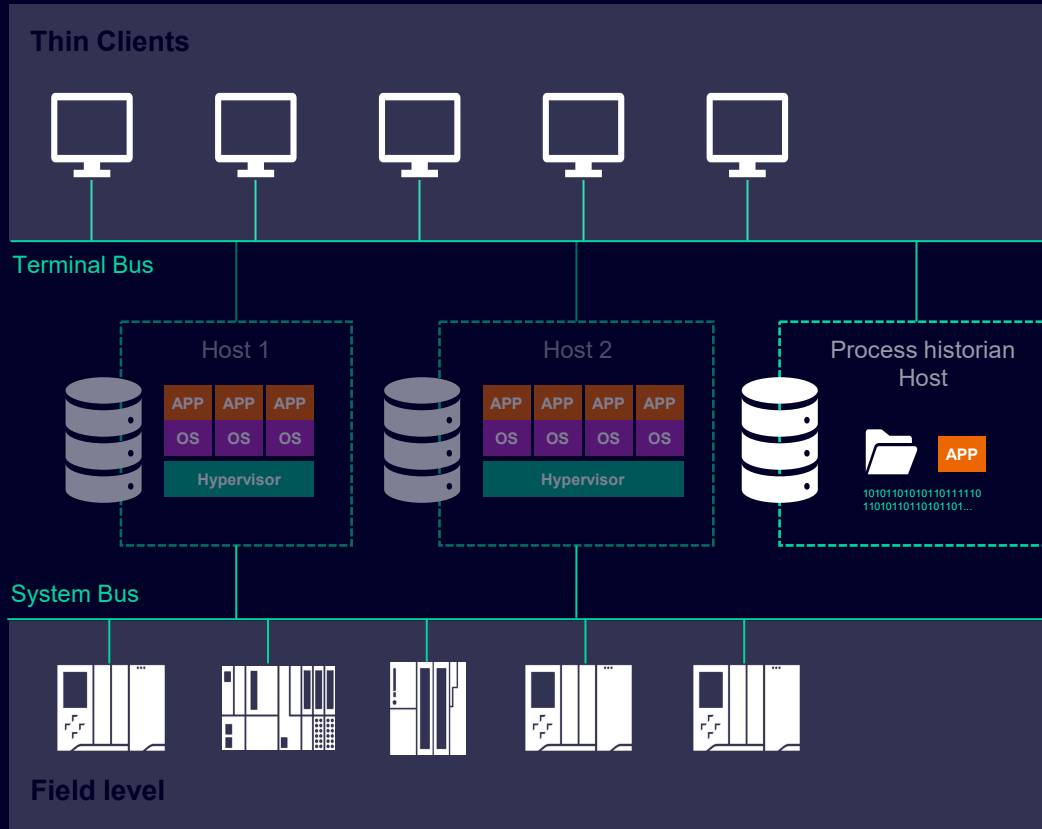
How does it work?

- **Data Archiving:**
Reliable data archiving and visualization with SIMATIC Process Historian or Information Server software
- **Support Package:**
3- or 5-year service agreement



SIMATIC DCS / SCADA Infrastructure

Module „Data Archiving“

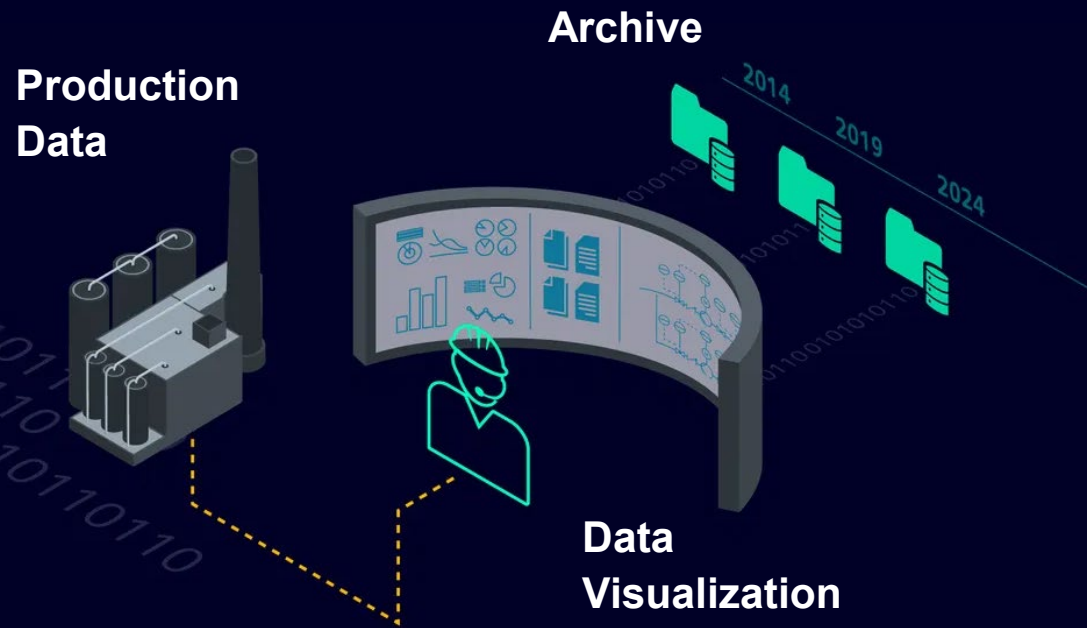


The **process historian architecture** involves several key modules to ensure efficient data collection, storage, and analysis.

- The **Data Acquisition** on field level includes sensors, PLCs, and SCADA systems to gather real-time production data.
- The **Communication** Layer utilizes robust network infrastructure and standard protocols for secure data transfer.
- Data is initially processed by interfaces and edge devices in the **Data Collection and Processing** module before being stored in a **centralized process historian database** and archival system within the storage.
- The **Data Management and Integration** ensures data integrity and integrates with enterprise systems such as ERP and MES.
- **Visualization and Reporting** module provides dashboards and automated reports for data analysis.

SIMATIC DCS / SCADA Infrastructure

Module „Data Archiving“



Data Archiving makes sure that the massive volume and complexity of data, arising from increased production processes can be effectively utilized for:

- data driven decision making for future measures
- task specific reportings
- visualizing complex information structures which make it easy to understand them
- storing and accessing the historical data – **anytime!**

There are two model types available:

Process Historian (PH) incl. or excl. Information Server (IS)

The server solution provides:

- preconfigured and preinstalled IT infrastructure
- on powerful server solution
- in different sizes
- individual lifecycle service

SIMATIC DCS/ SCADA Infrastructure

Module “Data Archiving”

NEW standardized hardware for the Process Historian line based on Dell!

Next to our established hardware based on HPE a new hardware variant from **Dell** is now available for the **SIDSI Process Historian** line to ensure an even higher compatibility for our customers regarding different manufacturer needs at their plants.

Based on years of experience, the Dell system was built identically to the HPE system. Thus, there are the already known hardware versions like the PH Size M, M+ or L available. It will continuously maintained in parallel to the well-known HPE hardware.

- Available as PowerEdge R760xs for optimized pricing
- 4th generation Intel XEON Scalable processors
- Supports DDR5 RAM with 5600 MT/s
- Integrated hot swappable BOSS device
- Energy efficient power supplies with 1100W



SIMATIC DCS / SCADA Infrastructure

Module „Data Archiving“

The archiving server solution consists of a ready to run Process Historian / Information Server (PH/IS) with hardware from **HPE or Dell** and a mandatory 3 or 5 year support agreement.

This all-in-one system ensures a reliably recorded and long term stored data without any gaps to keep all process steps as efficient as possible. Process data, tags, alarms and batch data are centrally archived in real time.

reliable – high performance – longterm archiving

- Available on HP Enterprise ProLiant or Dell Technologies PowerEdge variant
- Including Windows Server 2019 license (incl. Windows Server 2022 upgrade option)
- Preinstalled /-configured with SIMATIC Process Historian (PH)
with or without Information Server (IS) Software 2020 SP2 Upd3
- without PCS 7 PH/ IS licenses (to be ordered separately)

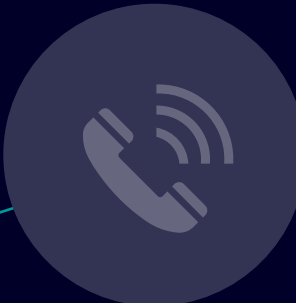


SIMATIC DCS / SCADA Infrastructure

Module „Support Package“

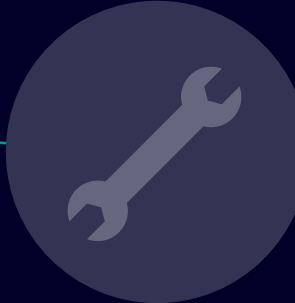
Basic Support

Support of **all Siemens software components** is a crucial part



Spare Parts

Defected hardware components will be replaced on **next business day** basis*. All actions are coordinated by the SIMATIC Tech Support



Setup

Preinstallation and configuration by Siemens experts guarantee a perfectly matching IT-infrastructure system



Application Support

Our technical support team additionally covers the support of all included 3rd party hard- and software components



*after it has been ensured that it is indeed a hardware defect

SIMATIC DCS / SCADA Infrastructure IT/OT Asset Monitoring based on PRTG

What is it about?



Your IT/OT infrastructure must function reliably to ensure the operational continuity of the entire system. Therefore, it is important to identify problems at an early stage before they cause a failure.



With IT/OT Asset Monitoring, we provide the perfect solution to monitor all critical hardware and software components of your OT environment.



This enables you to prevent downtime and thus boost the availability and reliability of your entire production.

How does it work?

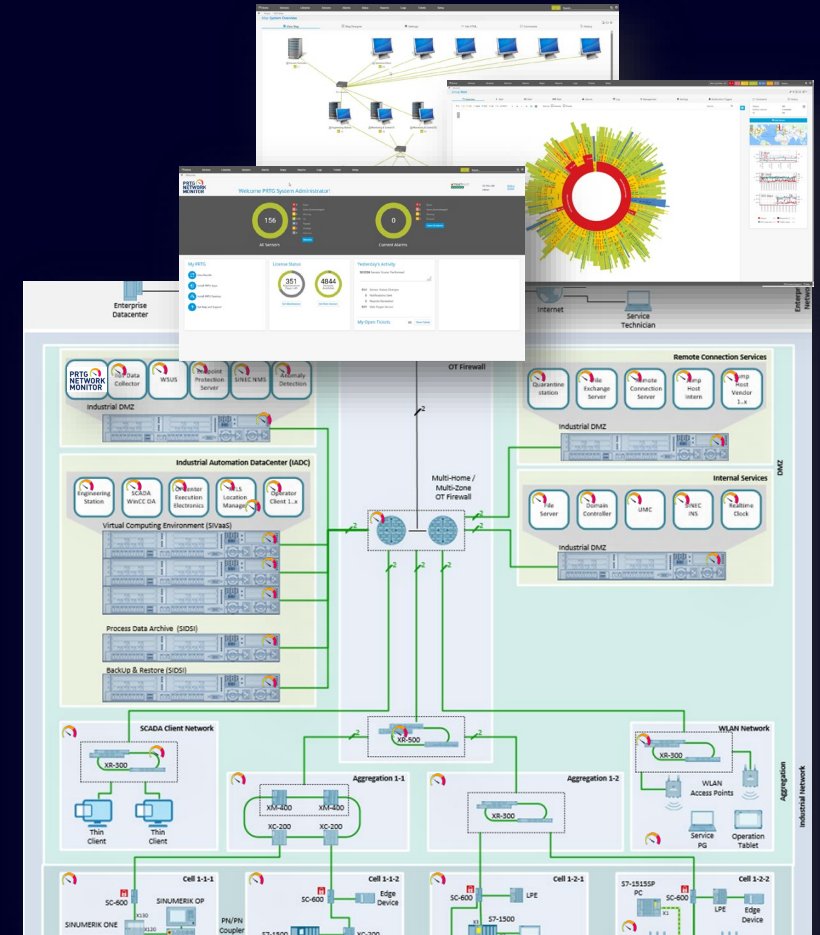
- Asset monitoring by using standard protocols like WMI, SNMP, SSH, OPC UA, HTTPS and many more (an asset can be a hardware or software component).
- Get notified via email, SMS/pager, OPC UA.
- Create new value by combining acquired information, e.g. health status of all hard disks.
- Share all your data with your OT environment for monitoring and alerting purpose.
- Monitor many production sites even across continental borders. Ask our experts!
- Get creative visualizing your IT/OT environment with the map functionality of PRTG.

Deliverables

IT/OT Asset Monitoring based on PRTG

Software licenses
and services

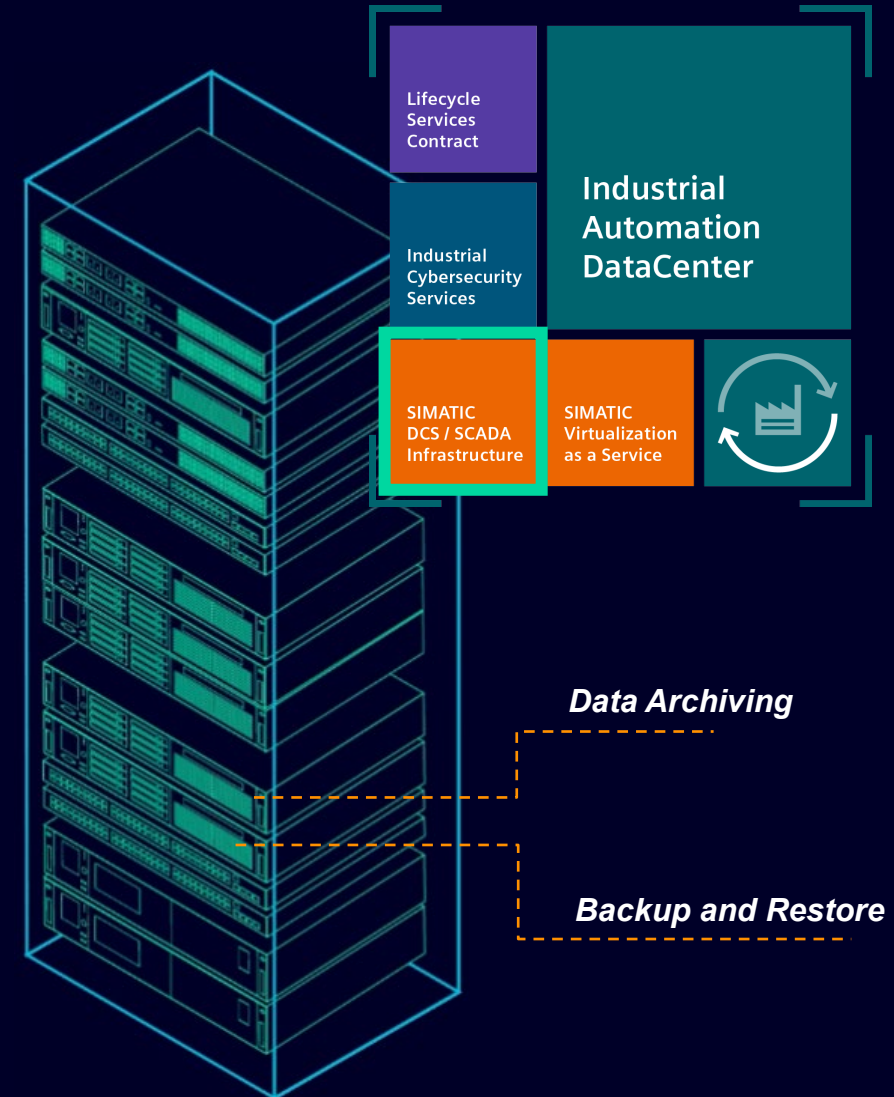
- Available in batches of 500, 1,000, 2000, 5,000, 10,000 asset sensors
- Including a half-day start-up consulting for commissioning and implementation
- Technical support for 3 or 5 years
- Software maintenance for 3 or 5 years
- Implementation and commissioning services (optional)



SIMATIC DCS / SCADA Infrastructure as part of the Industrial Automation DataCenter

The **Industrial Automation DataCenter** is an individually configured data center for all IT requirements in production, developed by Siemens experts with combined expertise in automation, digitalization and security. It facilitates entry into the forward-looking, digitalized infrastructure of the industrial environment of the future.

- All important core elements of a data center are included: high performance computing (with high availability), IT/OT networks, uninterruptable power supply and IEC 62443 compliant security architecture, **back-up and disaster recovery** and **process data archiving**
- The holistic approach covers consulting, configuration and appropriate support services throughout the entire life cycle.
- The perfect symbiosis of hardware, software and services from a single source provides this ready-to-run hyper-convergent IT infrastructure for industrial environments.



Why not profiting from the industrial digitalization age and get Siemens on board for your IT/OT infrastructure?

Managed IT/OT Infrastructure

- includes a ready-to-run high-available IT infrastructure for OT environments.
- meets sustainability goals and the latest cybersecurity requirements.
- ensures operational continuity through remote management and monitoring by IT/OT experts.

➤ **bridges the gap between IT and OT.**



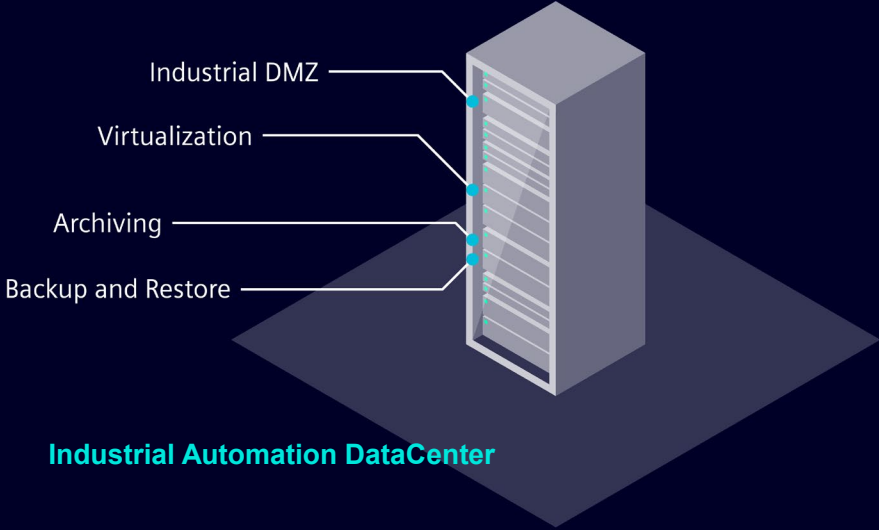
The perfect symbiosis of hardware, software and services

Secure data exchange between IT and OT based on IEC 62443 with **industrial DMZ** infrastructure

Future-proof modernization of control systems with a pre-configured **virtualization** platform

Pre-configured IT infrastructure for optimized data handling:

- **Archiving**
- **Backup and Restore**



Remote monitoring and management of your IT/OT infrastructure by IT/OT experts through the entire life cycle



Siemens as reliable partner for IT infrastructure in OT environments

We are the automation experts



We drive digitalization



We understand industrial security



We have specific industry know-how



We offer state-of-the-art technology and end-to-end services from a single source



“We make sure that you can focus on your core business.”

Why should you choose SIMATIC DCS / SCADA Infrastructure?

Data Archiving – SIMATIC Process Historian



Efficient archiving during production processes and **visualization** of gathered data



Optimized performance through reliable data archiving and powerful reporting tools



Ready-to-run infrastructure with system-tested, pre-configured components and 100% lifecycle services from a **single source**

MP Hygiène, Davézieux, France

Full IT/OT Infrastructure with Industrial Automation DataCenter

Customer profile	<p>MP Hygiène is France's leading manufacturer of pure cotton wiping paper with the Origine France Garantie® label, and also manufactures non-woven wipes, soaps and hand hygiene solutions. 56,700 m² of buildings on 4 sites and 12 production lines.</p> <p>https://www.mphygiene.com/en/accueil-english/</p>
Customer objectives	<p>As part of their industrial process, the customer wanted a virtualized infrastructure and strong cybersecurity packaged by Siemens</p>
Siemens Solution / service Description	<p>Industrial Automation DataCenter – SIVaaS and SIDS</p> <ul style="list-style-type: none"> • Redundant SIMATIC Virtualization as a Service (SIVaaS) and SIMATIC DCS / SCADA Infrastructure (SIDS) / back up and restore solutions in the same infrastructure • Scalance based virtual network architecture including DMZ • Turnkey PCS7 migration • Technical support from a Siemens paper industry expert throughout the project
Customer Benefits	<ul style="list-style-type: none"> • A pre-configured redundant Siemens virtualized infrastructure ready to host the migration of its PCS7 project • A powerful backup and recovery solution and a security-oriented network to prevent cyber attacks • A service contract included with the infrastructure • Virtualized Resources, Less Hardware, Energy Savings, Obsolescence and Cybersecurity Management
Why Siemens?	<ul style="list-style-type: none"> • Siemens offers turnkey solutions for virtualized HW-based migration • Siemens combines IT & OT solutions • Siemens has a wide range of track records in the paper industry



Reference ID: [37510](#)

Let us know if there is anything we can support you with!



You want to find out more?

Here you can find more information:

www.siemens.com/sidsi

or contact the Siemens partner near you

[Siemens Contact Database](#)



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In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial security measures that may be implemented, please visit <https://www.siemens.com/industrialsecurity>

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

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