SIMATIC PCS 7

Novedades v9.1

¡Bienvenidos!
Hora de Inicio 16:00
15 de Junio de 2021

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TEAMs
Silenciar micrófono. La sesión será grabada

⚠ **Está grabando** Informe a todos de que se les está grabando.   Política de privacidad   Descartar

La sesión va a ser grabada

Se ruega silenciar micrófono

SIMATIC PCS 7

Novedades v9.1

¡Bienvenidos!
Hora de Inicio 16:00
15 de Junio de 2021

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Zona de registro y próximos Webinars

Si está interesado puede registrarse en alguno de los próximos Webinars en:

https://siemens.es/workshops

SIEMENS - Webinars 2021

SOLICITUD DE ASISTENCIA

En primer lugar, queremos agradecer su interés por participar en alguno de los Webinars 2021 que hemos previsto para el próximo semestre.

....

Podrá indicar 1 único Webinar / Registro, pudiendo realizar tantos registros como Nº de Webinars a los que desea asistir.

....

LEY DE PROTECCIÓN DE DATOS

Los datos que nos aporte en el momento de su registro se incorporarán en la Base de datos de SIEMENS, S.A. para los siguientes fines:
- Gestión integral del evento o la campaña referidos, así como el envío de información sobre eventos o campañas similares del responsable.
- El envío de información sobre otros productos y servicios.
Legitimación: Consentimiento del interesado.
Destinatarios: No se cederán datos a terceros, salvo obligación legal.
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...

* Obligatorio

1. Indique el Webinar para el que solicita el registro. *

   ○ 03/11/20 - Webinar - SIMATIC Ecosystem. Completa Solución de Automatización para la Industria 4.0. Horario: 16:00-17:00 h

   ○ 06/11/20 - Webinar - SIMATIC Ecosystem. Completa Solución de Automatización para la Industria 4.0. Horario: 09:30-10:30 h

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1. Indique el Webinar para el que solicita el registro.

   Selecciona la respuesta   ⌃

   24/11/20 - Webinar - TIA Portal Ecosystem. Concepto y aplicación en la I4.0 Horario: 16.00-17.00 h

   27/11/20 - Webinar - TIA Portal Ecosystem. Concepto y aplicación en la I4.0 Horario: 09.30-10.30 h

   01/12/20 - Webinar - Eficiencia Energética enfocada al uso de variador de velocidad. Horario: 16:00-17:00 h

   04/12/20 - Webinar - Eficiencia Energética enfocada al uso de variador de velocidad. Horario: 09.30-10.30 h

   09/12/20 - Webinar - Ejemplos de digitalización en instrumentación. Horario: 16:00-17:00 h

   11/12/20 - Webinar - Ejemplos de digitalización en instrumentación. Horario: 09:30-10:30 h

   15/12/20 - Webinar - SIMATIC Drive Controller basado en S71500T: Solución ultra compacta Horario: 16:00-17:00 h

   18/12/20 - Webinar - LOGO! 8.3. El Mini PLC de siempre, ahora con conexión a la nube !!! Horario: 09.30-10.30 h

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Zona de Registro
Pregunta nº 13.- Temáticas de interés

https://siemens.es/workshops

SIEMENS - Webinars 2021

SOLICITUD DE ASISTENCIA

En primer lugar, queremos agradecer su interés por participar en alguno de los Webinars 2021 que hemos previsto para el próximo semestre.
....
Podrá indicar 1 único Webinar / Registro, pudiendo realizar tantos registros como Nº de Webinars a los que

13. Ruego nos indique aquellas otras temáticas que le gustaría tuvieramos en cuenta a la hora de programar nuevos Webinars

orarán en la Base de datos de SIEMENS, S.A.

Escriba su respuesta

envío de información sobre eventos o

gal.

como se explica en la información adicional.

...

* Obligatorio

Intereses
Arquitectura PCS7
Comunicaciones, ciberseguridad,
COMUNICACIONES, TIA PORTAL, VARIADORES Y SERVOS
Configuración PCS7
Digitalizacion
HMI Wincc PCS7
Logistica

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SIMATIC PCS 7

Novedades v9.1

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SIMATIC PCS 7
Wide range of expansion options

Information Management

Life Cycle & Services

Integrated Engineering

Plant Asset Management

APC Optimization

Energy Management

Batch Automation

SIMATIC PCS 7

Simulation FAT/OTS

Integrated Switchgear

Integrated Package Units

Integrated Field devices

Safety Integrated

Integrated Telecontrol

Route Management

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SIMATIC PCS 7 V9.1

Hardware highlights

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SIMATIC ET 200SP HA – portfolio additions

What's new with SIMATIC PCS 7 V9.1

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SIMATIC ET 200SP HA – Goes Failsafe!
Failsafe I/O modules at a glance

Combination of Standard I/O and Failsafe I/O modules in one ET 200SP HA station
Failsafe I/O modules expand the range of ET 200SP HA system

Functional safety certified by **TÜV Süd** in accordance with **IEC 61508**. Designed for safety-related use up to **SIL 3 / Cat.4 / Ple**.

Highest robustness for harsh environments:

- -40°..+70° C
- Conformal coating
- NE21 conform
- Operation up to 2,000 m
- Installation of I/O modules up to Ex zone 2
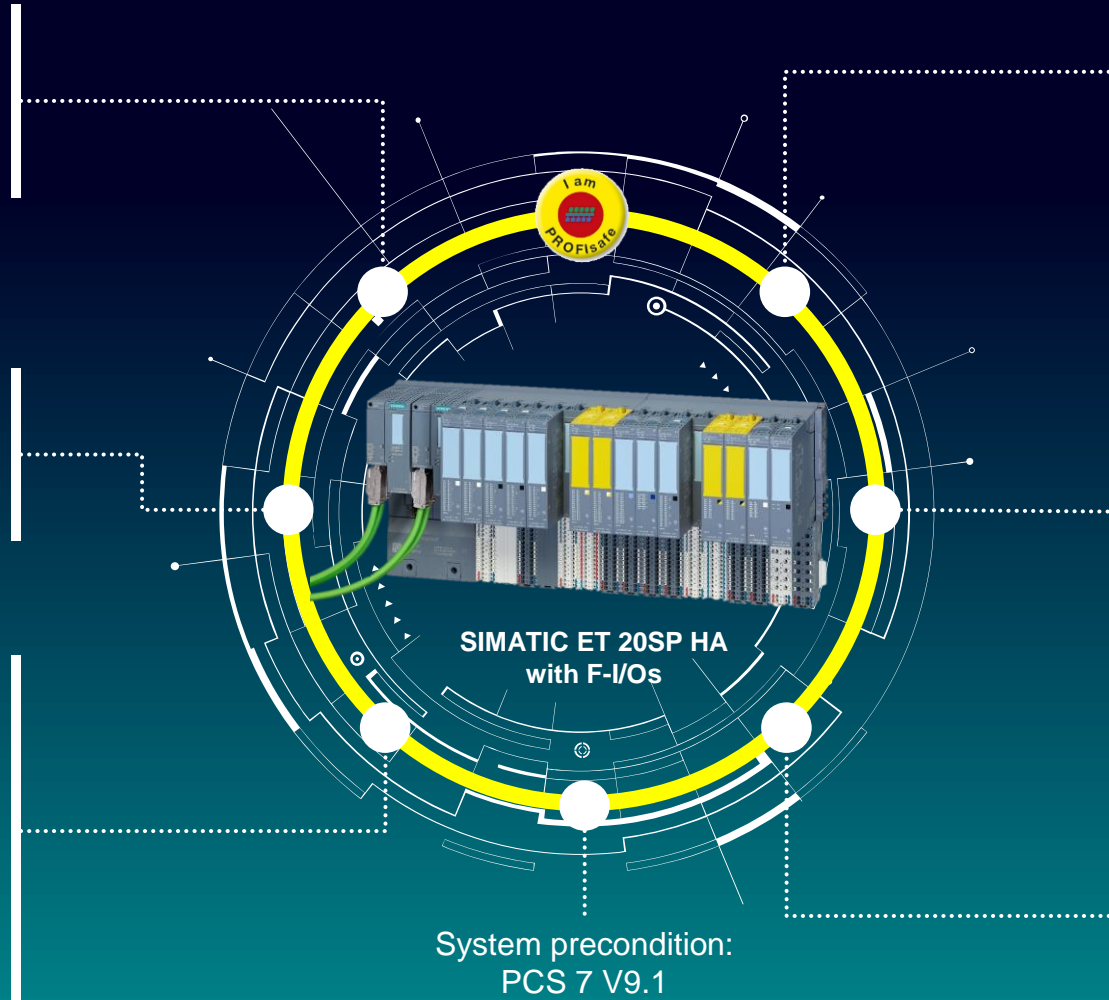
Safety-related communication via latest **PROFIsafe** profile.

Range of Failsafe I/O modules: (2/4 channels, 20 mm wide)

- F-DI 16x 24 VDC
- F-DQ 10x 24 VDC
- F-AI 8x I 2-/4-wire HART

Improved diagnostics (e.g. Identification data I&M) including PCS 7 Asset Management.

SIMATIC ET 20SP HA with F-I/Os

System precondition: PCS 7 V9.1

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SIMATIC ET 200SP HA – Goes Intrinsically Safe!
Intrinsically Safe I/O modules at a glance

Combination of Standard I/O and Intrinsically Safe I/O modules in one ET 200SP HA or ET 200SP station
Intrinsically Safe I/O modules expand the range of ET 200SP HA system

IECEx certified by **DEKRA** in accordance with **IEC 60079**. (FM/UL in Step 2)

Highest robustness for harsh environment:

- -40°..+70° C
- Conformal coating
- NE21 conform
- Operation up to 2,000 m
- Installation of I/O modules up to Ex zone 2

ET 200SP HA with Ex-ia I/O modules

System precondition: PCS 7 V9.1
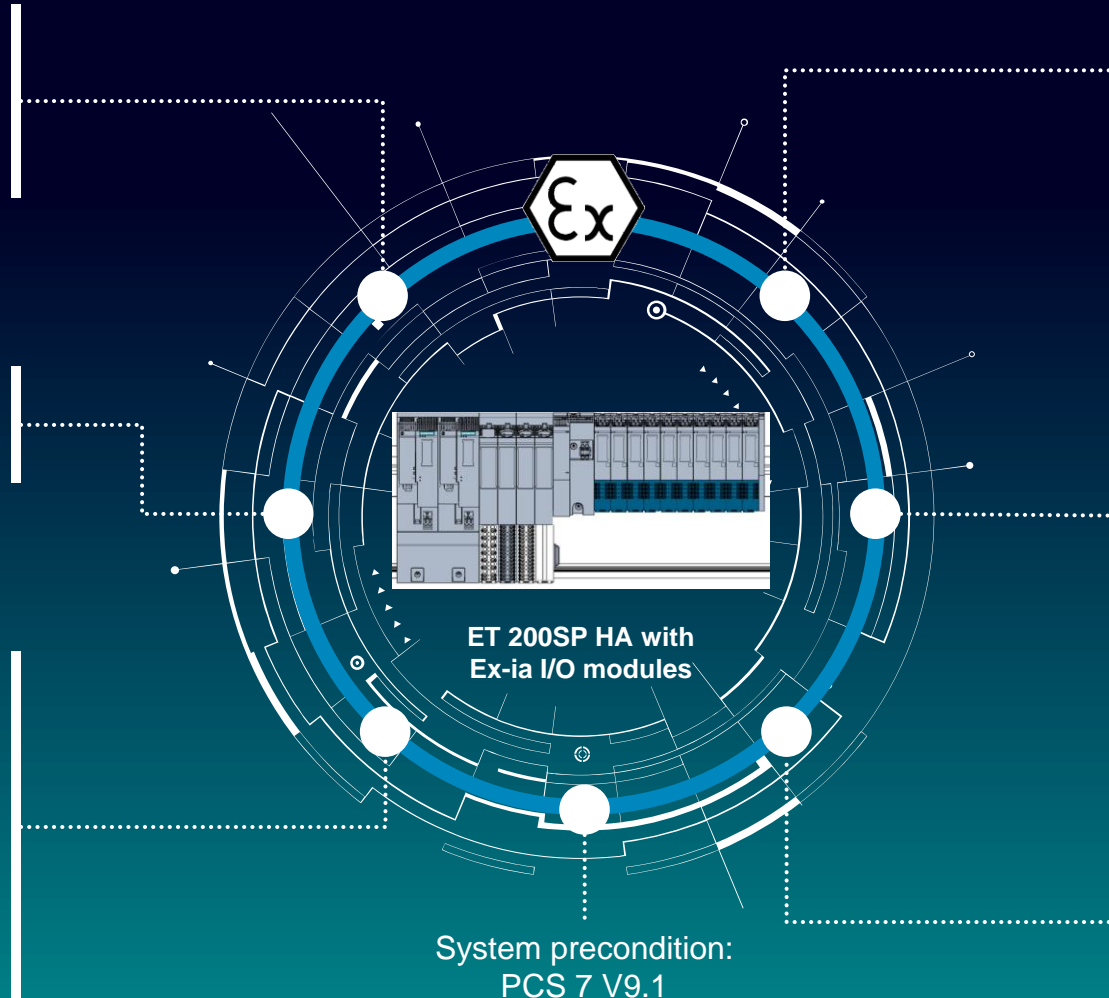
Power module:

- 0.8 A up to 60° C
- 0.6 A for up to 70° C

Full range of Ex-ia I/O modules:
(2/4 channels, 20 mm wide)

- Ex-DI 4x NAMUR
- Ex-DQ 2x 17.4 V DC/27 mA (54 mA)
- Ex-DQ 2x 23.1 V DC/20 mA
- Ex-AI 2x I 2-wire HART
- Ex-AI 4x TC/2xRTD 2-/3-/4-wire
- Ex-AQ 2x I HART

**"Built-in barriers"
reduce wiring-effort, space and costs:
Ex-ia protection** for connection up to Ex zone 1/0

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SIMATIC ET 200SP HA – Goes Galvanically Isolated
New analog cards with high channel-to-channel isolation

AI 4x I 2-/4-wire HART ISOL

AQ 4x I HART ISOL

Parallel A/D and D/A conversion for very fast signal processing and robustness

Single channel isolation ensures availability and accuracy

- 4x **galvanically isolated** analog inputs or outputs
- Potential difference **250 V AC** (Channel-to-Channel) and **125 V AC** (Channel-to-Backplane)

"Built-in isolators" reduce wiring-effort, space and costs

~$90 per isolator
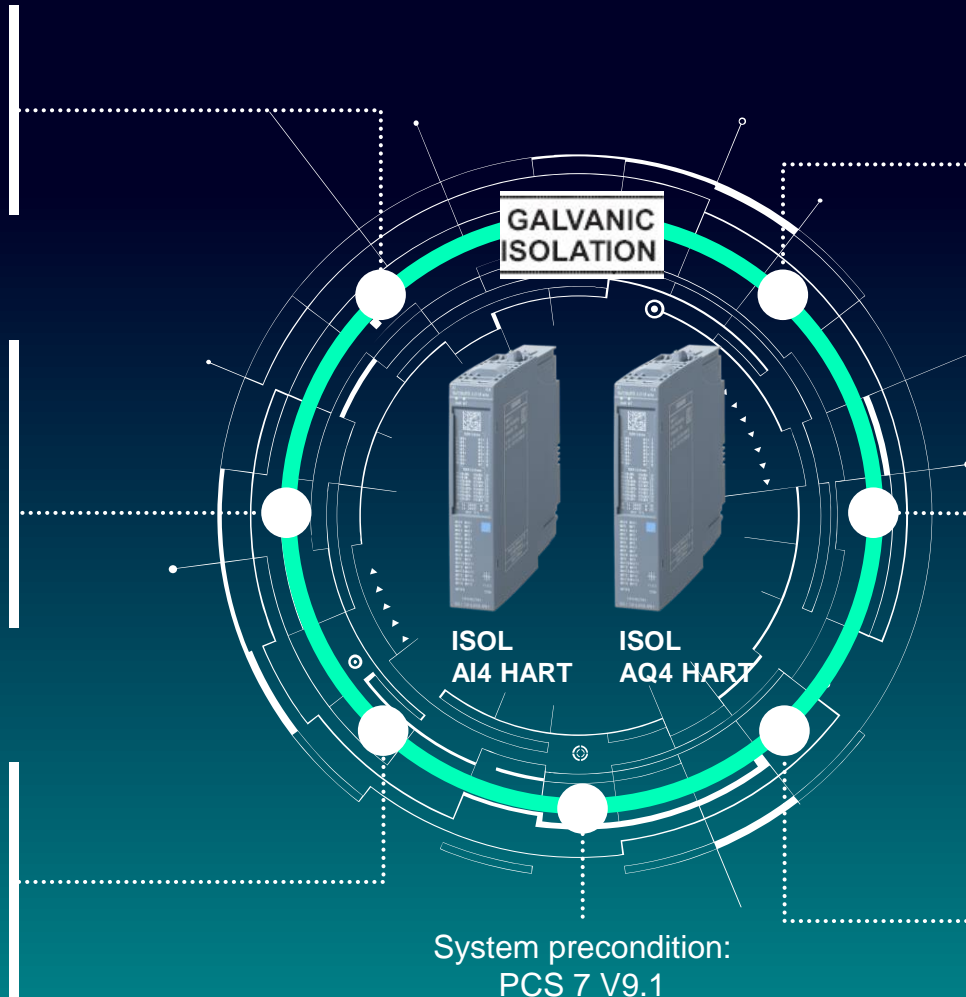
Highest robustness for harsh environment

- -40° ..+70° C
- Conformal coating
- NE21 conformity
- operation up to 4,000 m
- Installation up to Ex zone 2

GALVANIC ISOLATION

ISOL AI4 HART

ISOL AQ4 HART

System precondition: PCS 7 V9.1
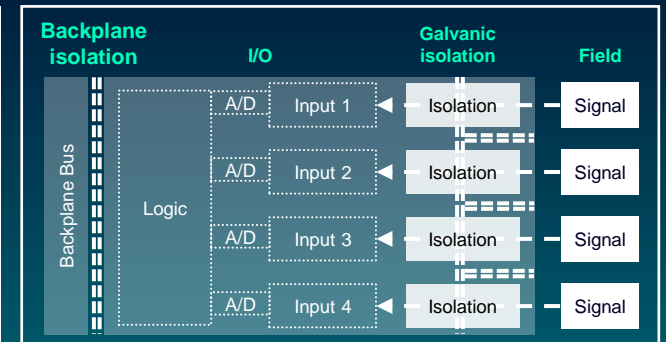
Isolation to decouple floating potentials between sensors
(Best for external powered 4-wire transmitters)

Backplane isolation	I/O		Galvanic isolation	Field
Backplane Bus	A/D	Input 1	Isolation	Signal
	A/D	Input 2	Isolation	Signal
Logic	A/D	Input 3	Isolation	Signal
	A/D	Input 4	Isolation	Signal

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SIMATIC ET 200SP HA – Accessories
Carrier Module 8-fold without Power Bus

8-fold carrier with Power Bus ✔   6DL1193-6GC00-8NN0

TERMINAL BLOCK (dark grey) for Power Bus bridge

TERMINAL BLOCK (light-grey) for new Power Bus group

Detail:
Power Bus
at Carrier Module
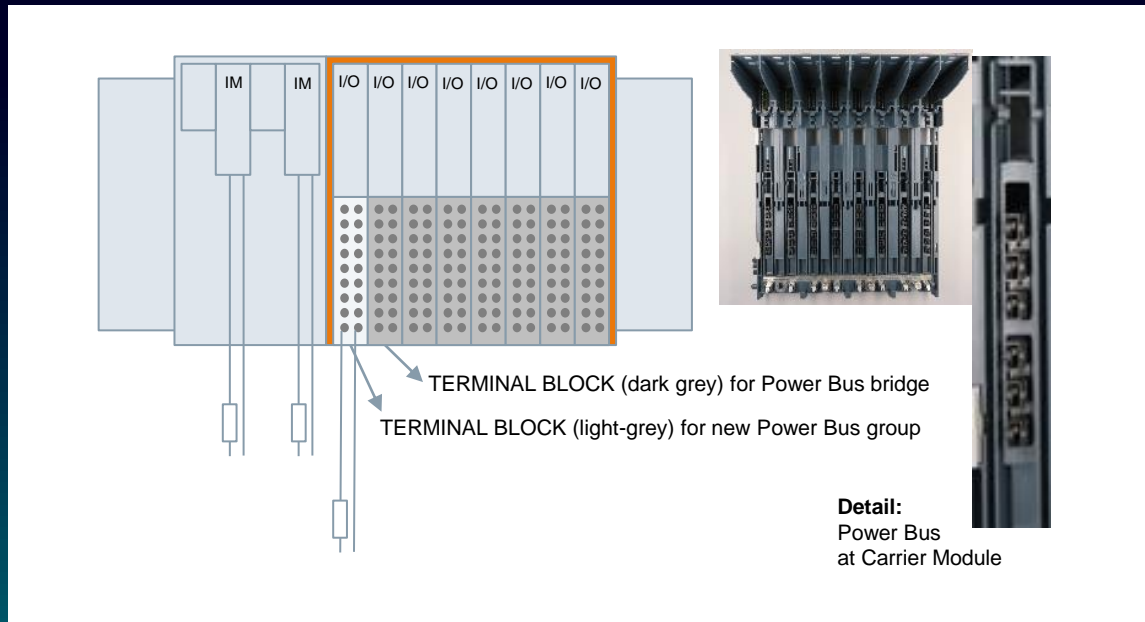
- One power feed at light-grey terminal block per Power Bus group
- Power transmitted to next I/O card by clamps of Carrier module
- Advantage: Less cabling and less fusing

8-fold carrier without Power Bus ✔   6DL1193-6GC00-8NN0

Light-grey Terminal Block
or black Terminal Block

Detail:
No Power Bus
at Carrier Module

30% price reduction
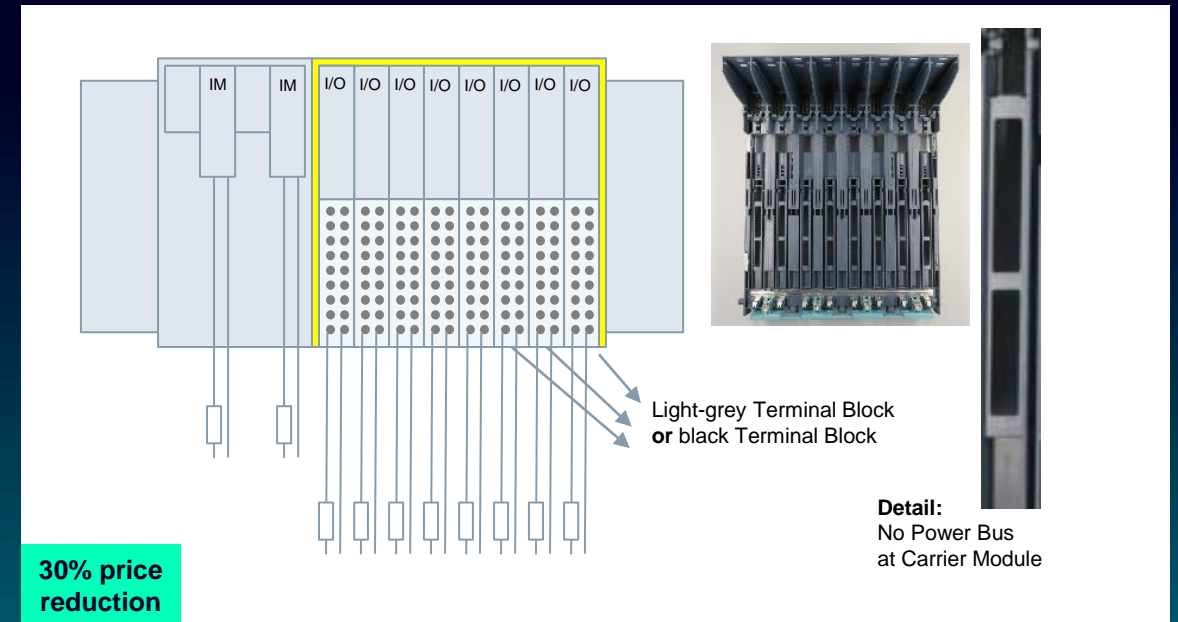
- Carrier without Power Bus clamps
- Each I/O card has to be individually powered
- Use of "light" or "black" terminal blocks only
- Advantage
  - Reduced price due to reduced material and manufacturing cost
  - Individual fusing of each I/O module

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SIMATIC ET 200SP HA – Accessories
Carrier Module 8-fold without Power Bus

8-fold carrier without Power Bus ✔ 6DL1193-6GC00-8NN0

Application example with new D-SUB TB

~30% price reduction

24 V 0 V

Individual Power Supply feed in for each IO Module for highest availability

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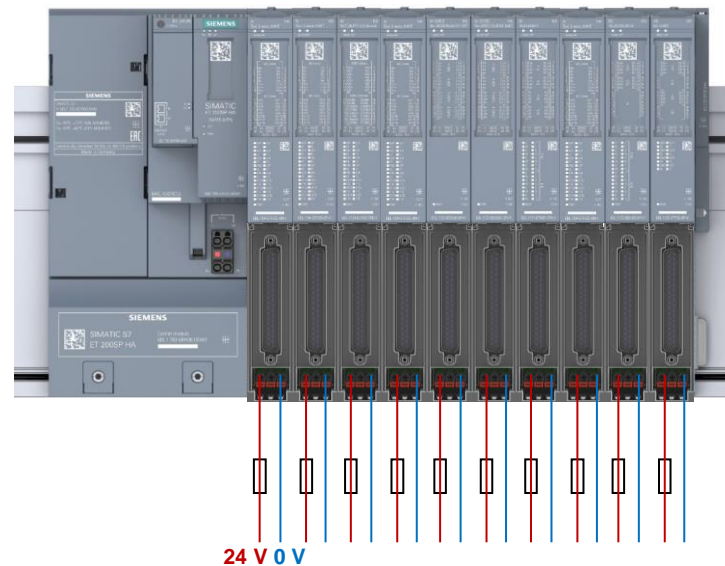
SIMATIC ET 200SP HA – Accessories
D-SUB Terminal Block for fast wiring and simple field connection

TB32 D-SUB Single   6DL1193-6TC00-0DH0

- Type H0
- Fast connection of process signals and load supply at the terminal block
- D-SUB Terminal Block with 32x I/O connections
- Single-Terminal Block **without** Power Bus
- Current carrying capacity per pin (D-SUB) 2 A
- Pluggable connector for 24 V load supply
- Compatible with all available base carriers
- Supported ET 200SP HA I/O Modules:
  - AI 16x I HART, AI-DI16/DQ16x 24 V DC HART
  - AI 16x TC/8XRTD (temperature compensation not supported)
  - AQ 8x I HART
  - DI 16x 24 V DC, DI 32x 24 V DC, DI 16x NAMUR
  - DQ 16x 24 V DC/0.5A, DQ 32x 24 V DC/0.5 A
  - FDI 16x 24 V DC, F-DQ 10x 24 V DC/2 A

SIMATIC TOP Connect Cable
- Pre-assembled D-SUB to ferruled flying leads cable
- Cable length: 3 m, 5 m and 8 m
- 32x wire with 0.14 mm²
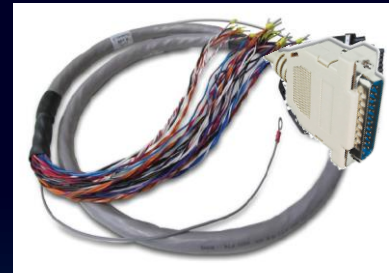
D-SUB signal cabling
(e.g., pre-assembled cable)

24 V DC powering
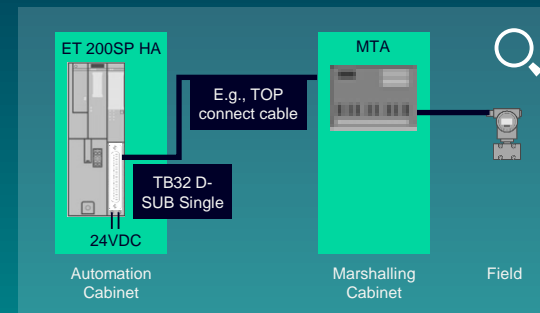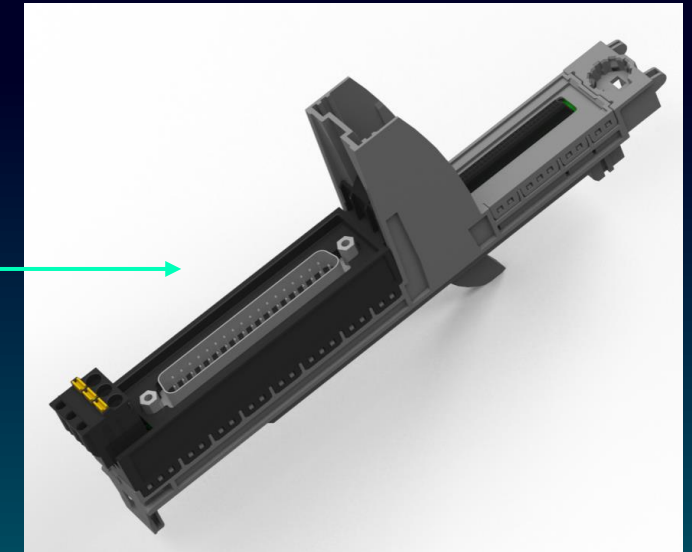
Usecase #migration: Fast switchover without touching field wire.

Usecase #greenfield: Fast and error-free connection of wiring boards and marshalling terminals.

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SIMATIC IPC

What's new with SIMATIC PCS 7 V9.1

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Rack IPC – Next Generation "E"
… SIMATIC IPC 647E/847E

High Performance

- Intel Xeon/Core i
  (8. Gen. – Coffee Lake)
- **>68% performance increase vs. 847D**
- Fast DDR4 Memory up to **128 GB** Standard and 64 GB ECC RAM
  (847D: DDR3, 32 GB max.)
- SSDs up to 2TB capacity
- M.2 Flash Memory NVMe,
  PCIe Lane up to 1TB
- Process Historian Hardware configuration possible

Compatibility and Security

- Windows 10 Enterprise 2019 LTSC
- Windows Server 2019 Standard Edition
- TPM 2.0 (optional)

Life Cycle

- Innovation cycle approx. 3 – 4 years
- Active lifecycle of 5 – 6 years
- Repair/spare parts for at least 5 years

Virtualization

First Step of Microsoft Hypervisor (Hyper-V) Support based on Windows Server 2019 Standard Edition with PCS 7 V9.1. (minimum Hardware configuration required)

Lots of Extensions

- 2 PCI + 2 PCIe or 4 PCIe (647E)
- 3 PCI + 8 PCIe (847E)
- 3 channel Multi-Monitoring on board
- 3x Gigabit Ethernet onboard
- Interfaces (USB 3.1, DP 1.4)

Availability and Robustness

- RAID 1 and 5 configuration
- Hardware RAID Controller with SAS HDD
- ECC RAM
- Redundant Power Supply incl. Diagnosis

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BOX and Panel IPC – Next Generation "E"
… SIMATIC IPC 427E/627E and 477E/677E

➕ **More user-friendly**
- New enclosure concept (LEDs, drives)
- Easy modification

➕ **Latest technology and top system performance**
- Intel Core i processors ("Coffee Lake"/8th Generation)
- DDR4 memory, up to 64 GB
- USB 3.1 Gen 2 and Type C
- M.2 NVMe SSD internal (PCIe 3.0 x4)
- 3x graphics interfaces with support for 4K monitors
- Windows 10 Enterprise 2019 LTSC
- Windows Server 2019 Standard Edition (64bit)

➕ **Greater flexibility and security**
- 3x Gigabit Ethernet onboard
- 2x PCIe x16, x4 or 1x PCIe x16 and 1x PCI
- TPM 2.0 (optional)

IPC627E

IPC677E

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PROFINET

What's new with SIMATIC PCS 7 V9.1

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PROFINET
Technology Benefits and Enhancements

Availability

IE/PB Link HA
6GK1411-5BB00

- S2-device with H-CiR/MRP (PA ready)
- New use case: Single PB-slaves attached to an H-System[1]

Improvement

PN/PN Coupler
6ES7158-3AD10-0XA0

- S2-device 1000 bytes process image spaces (each direction: Read and write)
- 1440 bytes process image space in non redundant case
- MRP
- Galvanic isolation

Flexibility

PROFINET over IWLAN on SCALANCE W700
6GK57 …

- Up to 8 PN-devices behind an iFeature WLAN client
- S2 and R1 Redundancy supported with FW from V6.5.0 up

Reliability

Y-Switch SCALANCE XF-200(BA) DNA
Coming with next HSP

- Y-Switch Redundancy
- **Supported with FW from V4.2 up**

1 Not for modular PROFIBUS Slaves (e.g., Remote I/O's)

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PROFINET Network Infrastructure
… Products Update

SCALANCE XC2xx/XB2xx/XF2xx

Coming with next HSP

- Firmware update V4.2
- MRP-I (MRP-Interconnection)
- Additional small improvements

➕ SCALANCE SC6xx

- Successor for existing solutions with ServiceBridge for PROFINET
- Configuration via Web Based Management only
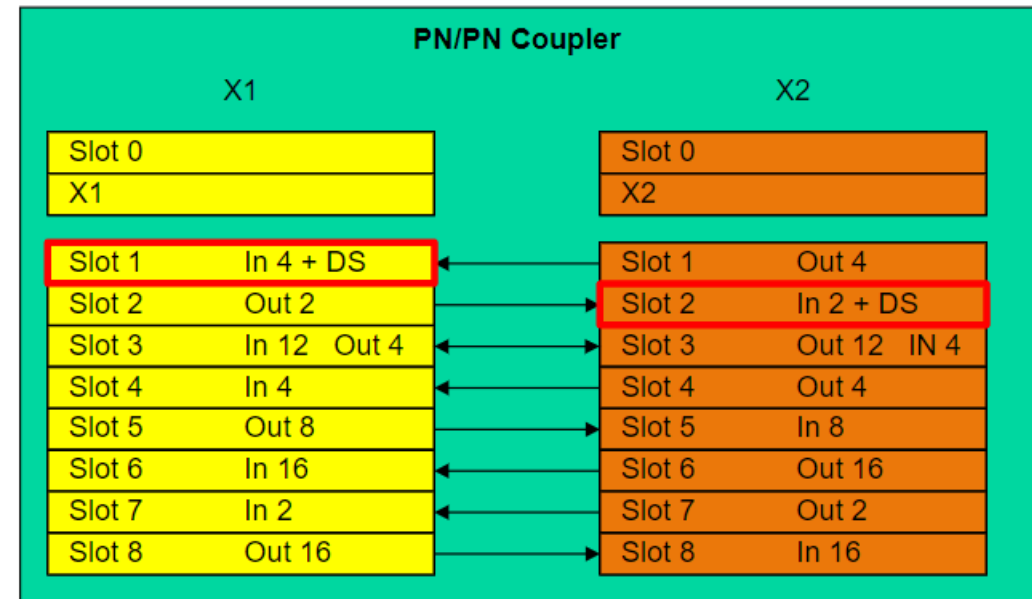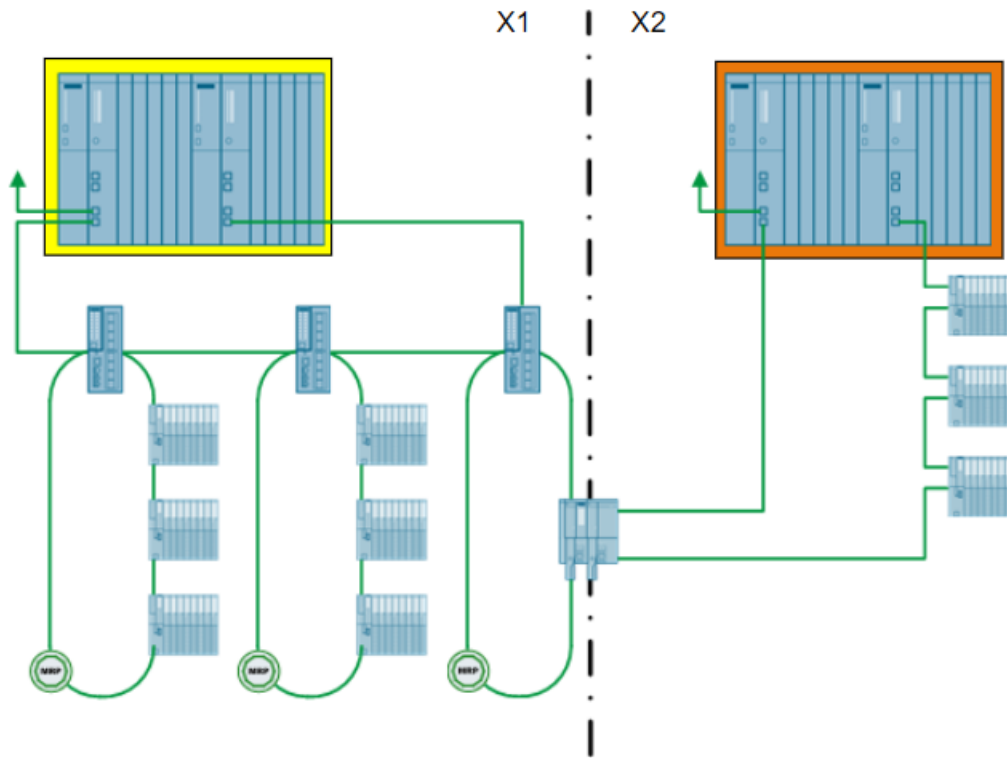
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PROFINET Network Infrastructure
… MRP Interconnection (MRP-I)
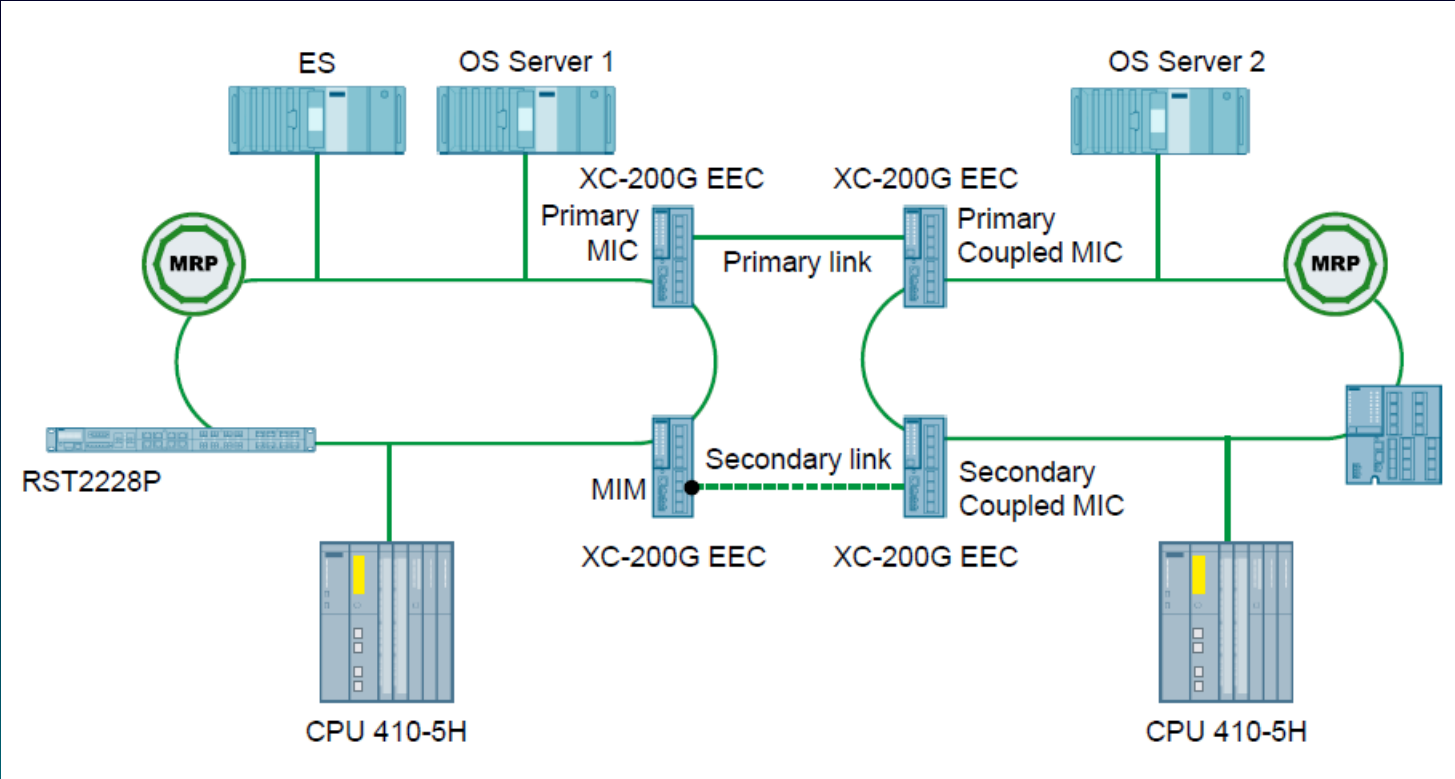
- reconfiguration time is less than 200ms

- Blocked mode

MIM –Media Redundancy Interconnection Manager
MIC –Media Redundancy Interconnection Client

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PROFINET Network Infrastructure
… MRP Interconnection (MRP-I)

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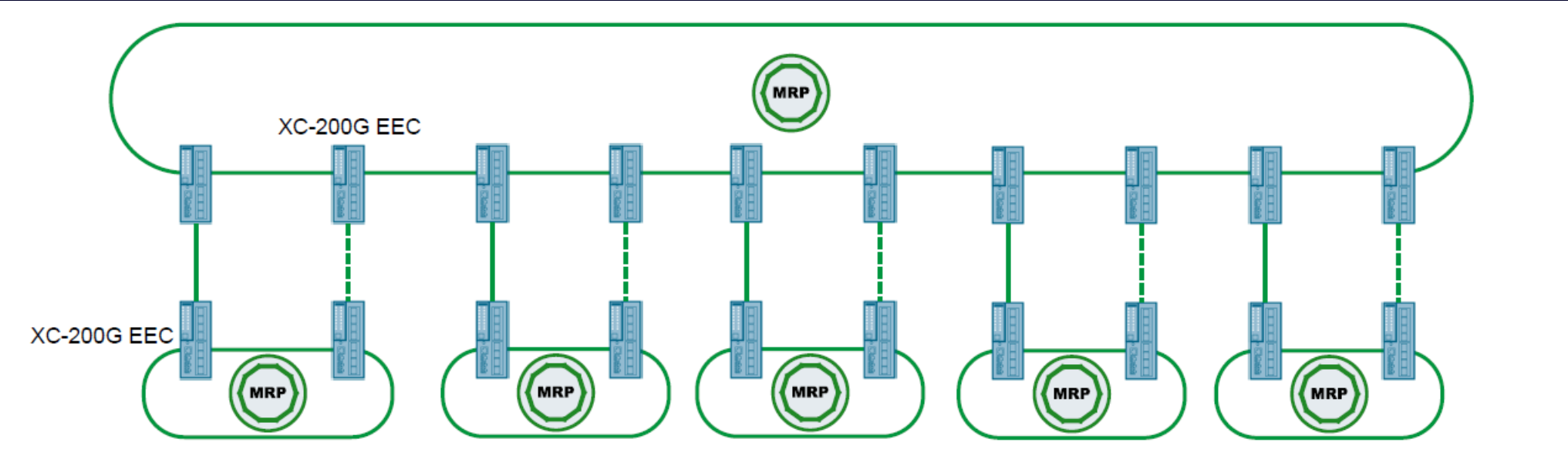
SIMATIC PCS 7 V9.1

Software highlights

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SIMATIC PCS 7 – Plant Generator
Efficient Engineering

Features

- Control – Template-based Import/Export using predefined CMT/EMT templates
  - Generating control modules for process plants on sensors and actuator level
  - Modifying variants of control modules
  - Generating equipment modules respectively equipment phases on group control level
- Support of spreadsheet engineering using the familiar Excel SW
- Exchanging CMT type relations of CM instances

Key Benefits

- Efficiency – Generating CMs/EMs completely from scratch Providing an easy-to-use import/export tool
- Interoperability – Excel (csv file) as well as SimaticML (XML) support
- Flexibility – Modifying/Updating support
- Useable with existing Import-Export Assistant (IEA) License

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SIMATIC PCS 7 Plant Automation Accelerator

What's new with SIMATIC PCS 7 PAA V3.1

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Fast and error-free engineering with
SIMATIC PCS 7 Plant Automation Accelerator V3.1

**Data
synchronization**

**SIMATIC PCS 7
PA Accelerator**

Equipment Module Types

Control Module Types

Equipment Modules

Control Modules

Interlock Logic

Technological Hierarchy

Hardware Configuration

Symbol Table

SIMATIC PCS 7

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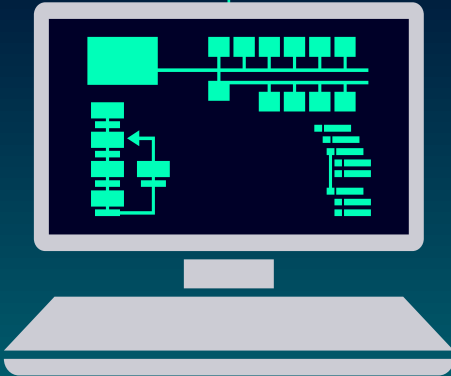
SIMATIC PCS 7 Plant Automation Accelerator V3.1
Technological engineering for PCS 7 sequences

Technological engineering for PCS 7 sequences

- Graphical documentation of sequencer topology
- Graphical detail documentation of steps and transitions
- Interactive reports allow graphical engineering
- Data exchange with SIMATIC PCS 7
- Usage of status and commands
- Graphical representations of language elements

Benefits

- Shorter project times
- Structured overview
- Reduction of engineering effort
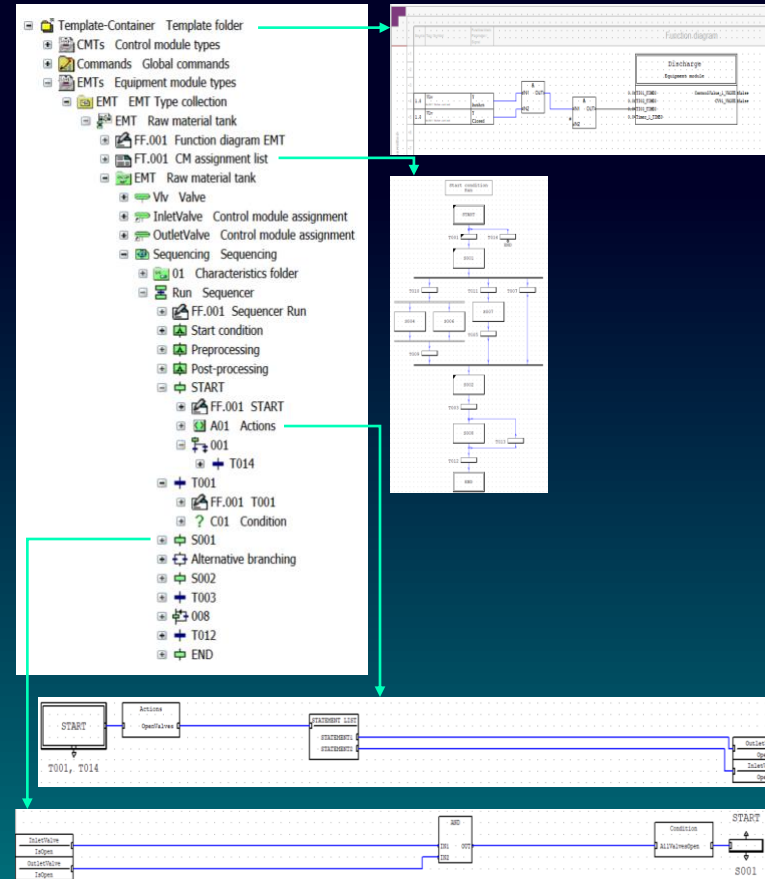
FUP – Logic around EM
No changes to PAA V2.1

FUP – overview/topology
- Show only steps, transitions with Name and Comment
- Additionally simultaneous and alternative branches, jumps and loops

FUP – detail
- Each step and transition has an own FUP
- Global status and commands are used
- Status and commands of CM roles are used
- Standard functions and language elements can be easily used and connected via symbol bar

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SIMATIC PCS 7 V9.1 – APL & IL

What's new with SIMATIC PCS 7 V9.1

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Room for new perspectives
SIMATIC PCS 7 V9.1

More flexibility, scalability, availability, safety and security in process automation

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- Advanced Process Graphics V9.0.2
  55" monitor support and 4K Ultra HD high resolution
  Quad view w/o additional HW
- Advanced Process Library
  - Condition Monitoring Library integrated in APL
  - New Status Browser filter options for APL function blocks
- Industry Library
  - Specific functions enabling a consistent and ISA-88 compliant engineering and operating concept including batch integration
  - Function-based control and monitoring logic of individual control elements

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SIMATIC PCS 7 Advanced Process Graphics V9.0.2
New 55" monitor support for operation

- Support of 4K Ultra HD high resolution

- 55" Screens -> more information @ one screen

- Engineered via Standard Project Editor Setting

- 16:9 picture format -> allows to combine with standard screens

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SIMATIC PCS 7 APL V9.1
New Features Extended Interlock Functionality

- extended interlocking for both commands

- MotSpdL, MotSpdCL, VlvMotL, VlvAnL, VlvPosL

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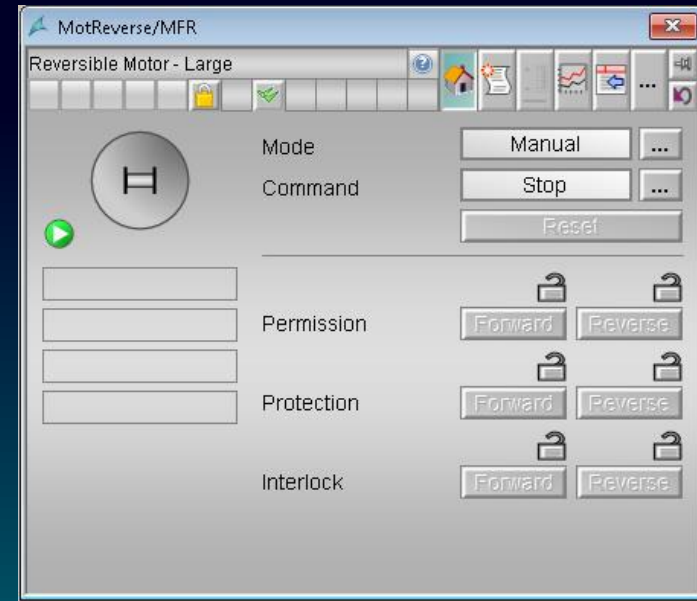
SIMATIC PCS 7 APL V9.1
New Features Tag Browser

- Filter on Block Internal Simulation
- Filter on Internal Error
- Filter on Group Error

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SIMATIC Management Console and Lifecycle

What's new with SIMATIC PCS 7 V9.1

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SIMATIC PCS 7 V9.1
SMMC & SIMATIC myExpert

SIMATIC Management Console

On-site, software administration and system inventory, including:

- Inventory management
  Automatic inventory export to MS Excel/iBase
  Compares installed HW with latest version released
- Software administration
  Centralized MS Windows update installation
  Gathering MS Defender security events from all administered computers
  Version comparison for installed Software/Firmware
- Data provider for PCS myExpert

SIMATIC PCS myExpert

Cloud-based dashboard for Health & Lifecycle status of DCS system components on one or multiple sites, including:

- Health
- Lifecycle
- Service

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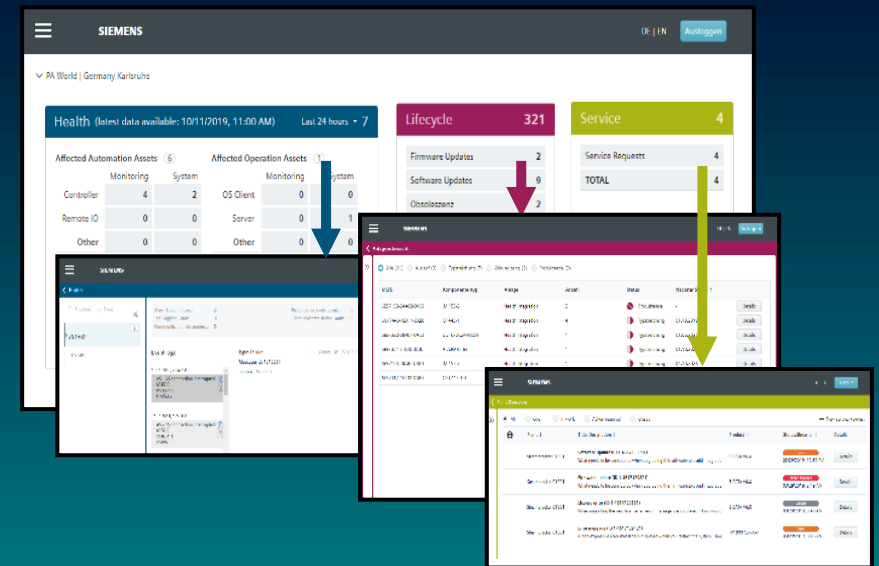
SIMATIC PCS 7 V9.1 Update Collections (UC)
Update synchronization

UC01   UC02   UC03   Service Pack (SPx)

WinCC
ES
CFC
SFC
AI
AS/OS
Batch
Route Control
Power Control
APL
…

Approx. 3-month cycle   Approx. 3-month cycle   Approx. 12 months between each release
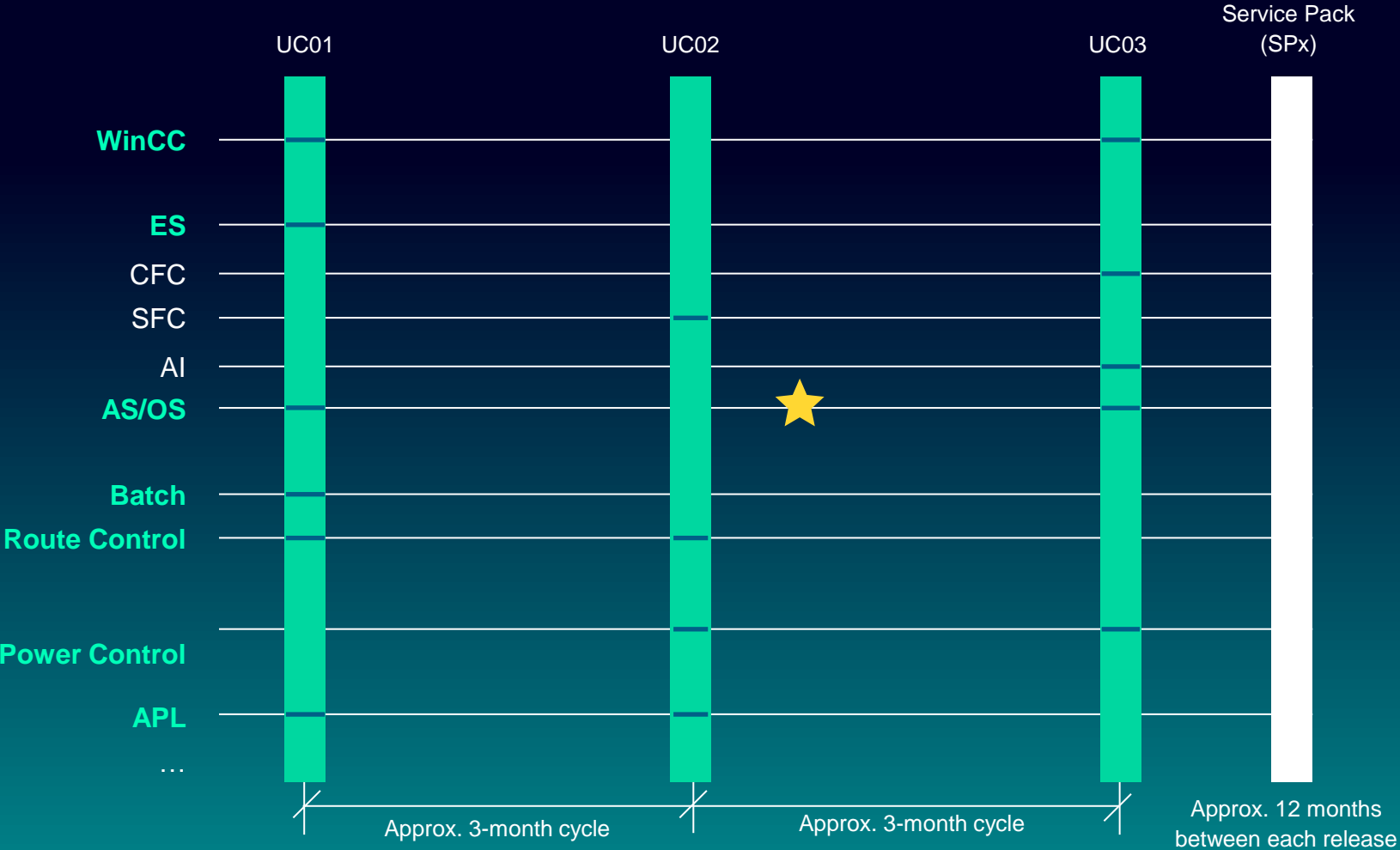
During planned update collection release (UCxx), all PCS 7 component updates will be provided together via the PCS 7 update-collection setup.

⭐ If urgent (e.g., emergency shutdown of a customer plant, etc.) a patch could be delivered to the customer.

There is no change in handling the service packs (SPx).

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SIMATIC PCS 7 V9.1 – Operator System

What's new with SIMATIC PCS 7 V9.1

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SIMATIC PCS 7 V9.1 Operator System
Changing operator without changing the current process screen

Features

- In some cases it makes sense that the process control shall continue with the currently opened process display after an operator change
  - E.g., if an operator with higher user rights shall log on to improve the process for a given time
- The operator with the "higher user rights" can log in and the current process display remains open
- The original operator can then log back in to the same screen and continue working

Key Benefits

- Fast transfer of a current process situation to an expert with the corresponding user rights
- Rapid handling of critical situations

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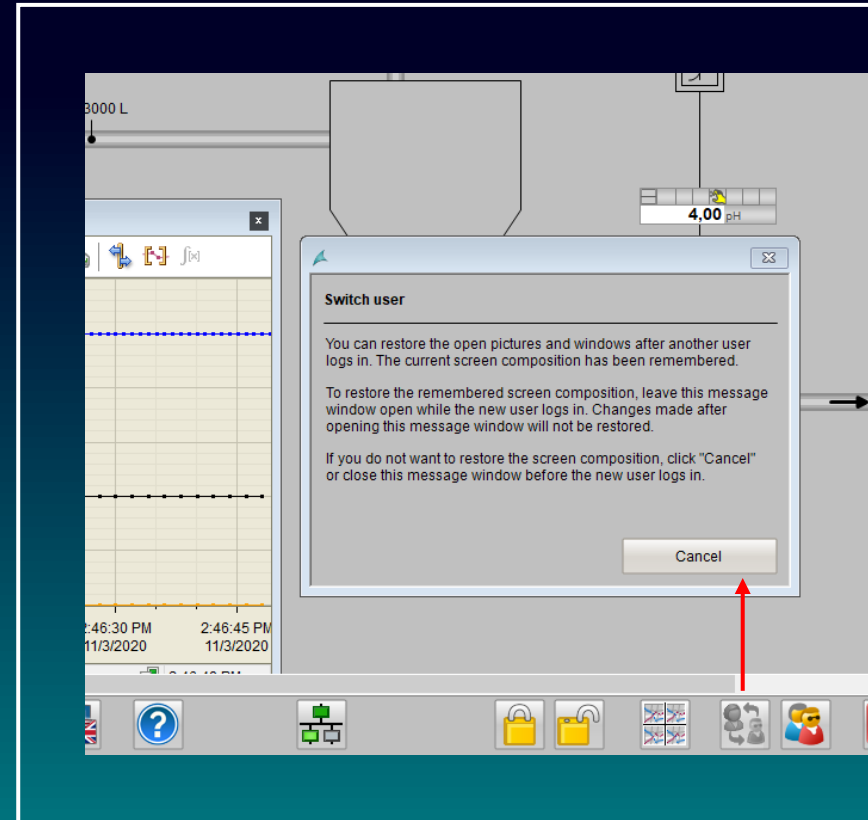
SIMATIC PCS 7 V9.1 Operator System
Clear indication of the existence of hidden and locked alarms in the Overview Area

Features

- A symbol object in the PCS 7 Overview Area will indicate the existence of locked or hidden alarms
- It becomes colored as soon as one or more alarms are locked or hidden
- The user can open an overview window displaying the quantity of the currently locked and hidden alarms
- A click on the icon at the quantity field will open the related list

Key Benefits

- Convenient operator information about currently suppressed and locked alarms
- Quick access to the relevant alarm list

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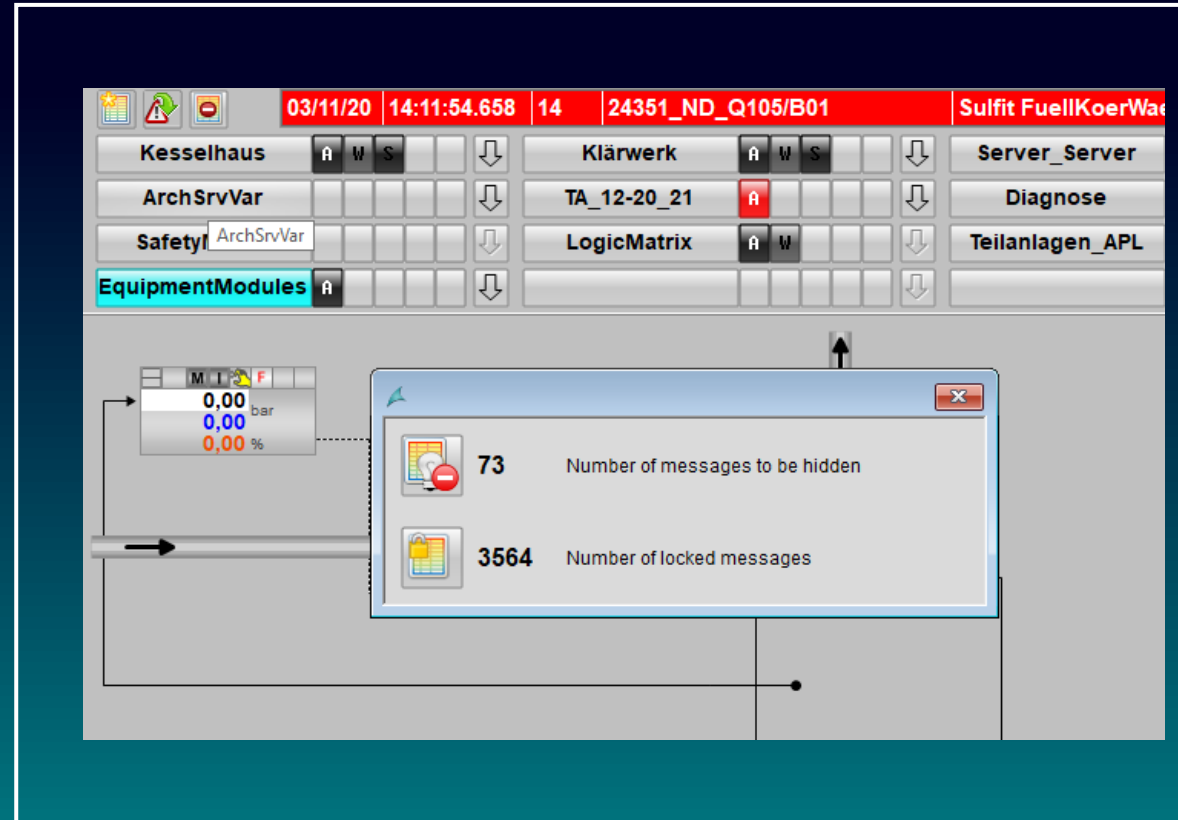
SIMATIC PCS 7 V9.1 Operator System
User-defined message filters with write protection

Features

- The system supports user-defined message filters which can only be changed if the user has the appropriate user right
- The user who creates the message filter can also set the user rights to configure/modify this filter

Key Benefits

Improved protection of user-defined message filters

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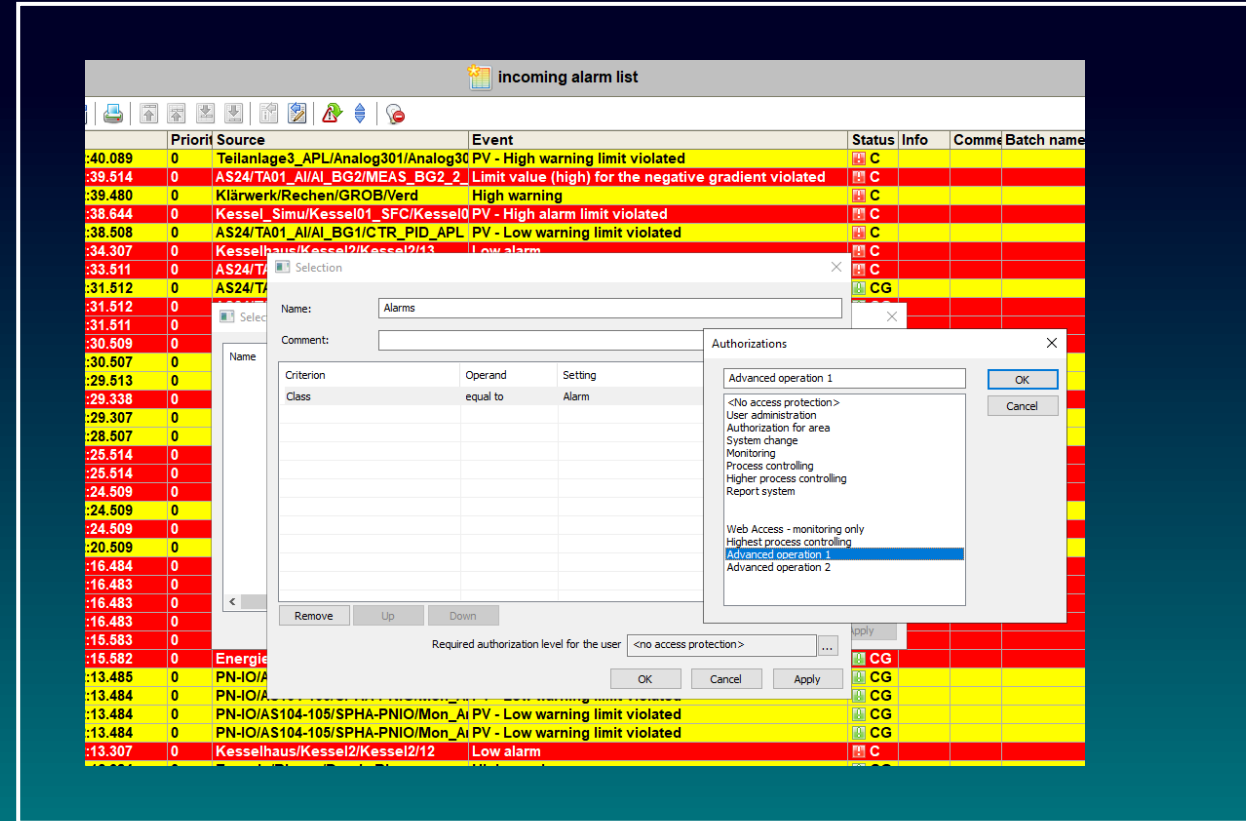
SIMATIC PCS 7 V9.1 Operator System
Manual Alarm Hiding Dialog

Features

- To increase traceability, the function for manual hiding of alarms supports the input of the reason for hiding
- By a dialog, the operator specifies the cause of the alarm from a predefined list, which is provided in a combo box
- If necessary, he can also enter a comment

Key Benefits

- Conformity of the alarm system with the requirements of IEC 62682
- Improved traceability of an alarm suppression measure

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SIMATIC PCS 7 V9.1 Operator System
Acknowledgement of alarms with forced comments and/or electronic signature

Features

For each message class it can be configured whether a comment and/or an electronic signature must be entered by the operator before acknowledging a message of this message class.

Key Benefits

Optimal handling of alarms with focus on product quality e.g., in the pharmaceutical industry.

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SIMATIC PCS 7 V9.1 Operator System
Comments of operating messages should not be changeable

Features

- The comments of operating messages can no longer be overwritten

- Only additional comments can be added

- 4,000 characters per operating message are possible

Key Benefits

Validation-safe commenting of operator actions.

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SIMATIC PCS 7 V9.1 Operator System
OPC UA access – Protection of process tags

Features

- Protection of process tags against data misuse by external applications such as OPC UA clients
- Therefore it will be configurable per OS tag if the tag is read-only or even invisible for OPC access

Key Benefits

Increased plant security.

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SIMATIC PCS 7 V9.1 Operator System
Operation messages will always include the name of the operator station

Features

All kinds of operation messages shall contain the name of the operator station by default.

Key Benefits

Increased traceability of an operating action.

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SIMATIC BATCH

What's new with SIMATIC PCS 7 V9.1

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SIMATIC PCS 7 V9.1 SIMATIC BATCH
Batch Web Client with actually logged-in user

Features

Complete Audit Trail for Web Client actions.

Key Benefits

Improved FDA compliance by batch operation tracking according to actually logged-in user.

SIMATIC PCS 7 ≤ V9.0
Anonymous action tracking as "WebClientUser"

Action:

ID	Action	Login	Processed by
1	Hold step (immediately)	WebClientUser	WebClientUser
2	Resume step	WebClientUser	WebClientUser

SIMATIC PCS 7 V9.1
Action tracking according to logged in user as on regular OS clients

Action:

ID	Action	Login	Processed by
1	Hold step (immediately)	op1	Operator 1
2	Resume step	op2	Operator 2

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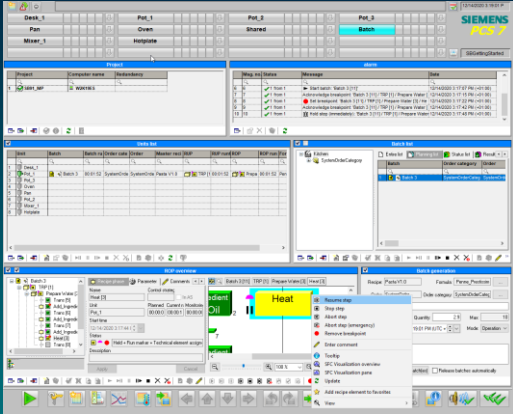
SIMATIC PDM – SIMATIC PCS 7 MS

What's new with SIMATIC PCS 7 V9.1

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SIMATIC PDM V9.2
The best process device management tool

New features as a result of customer experience and application of the latest integration technologies

- Verification of the signatures of FDI device packages increases the security of device integration

- Export of contents from the process device plant view to office applications enables better tracking of service actions

- The print function for online dialogs in pdf files enables device-specific documents for protocols and certificates regardless of device type and manufacturer

- Device type independent use of the PA profile diagnostics for PROFIBUS and PROFINET field devices for a better interaction with the PCS 7 Maintenance Station

- Many small changes in display and usage improve the use and handling of SIMATIC PDM
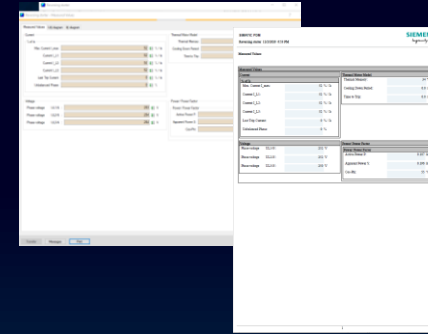
Print of device specific dialogues
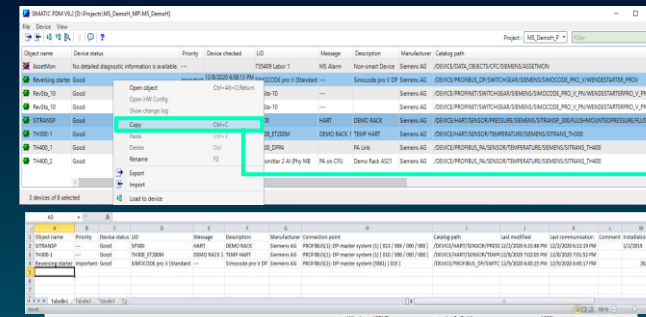
Export of device information to csv files
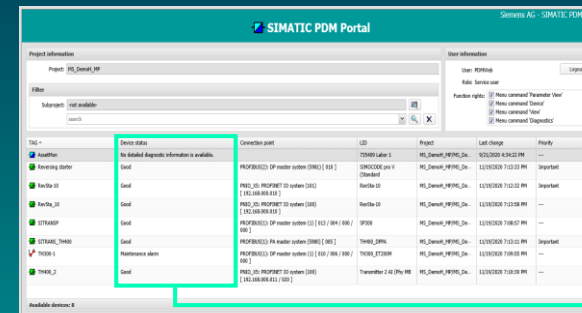
More information in the SIMATIC PDM portal view

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Maintenance Station
Use of the SIMATIC PCS 7 Measuring Point Browser

The measuring point browser is an online overview of the maintenance status of the components and devices monitored by the maintenance station

- Same functionality as the SIMATIC PCS 7 measuring point browser in process operation

- With filter and search functions related to the Maintenance Status :
  - Diagnostic status
  - Operating mode
  - Status of maintenance/service
  - Configuration change status
  - Priority

- "Loop In" function for finding (image selection) the devices representation in the segments picture

Measuring point browser (Status representation)

Detail pictures (Segments)

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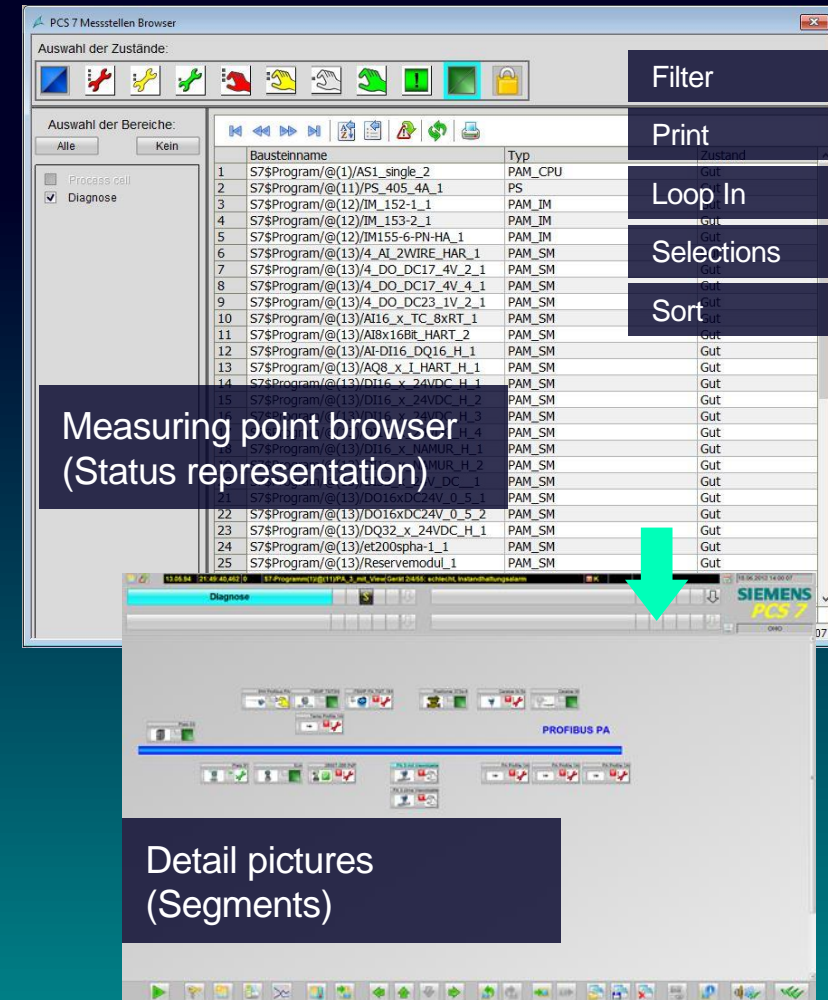
Maintenance Station
Selective reading of Parameterization Data

Selective reading of dynamic parameters increases data acquisition performance

- Dynamic parameters of field devices can be read in a separate and faster cycle than static parameters

- Selection via "Online – Parameter data (Field device, selected)"

- An unrestricted number of parameters can be selected for each field device type

- Parameters that can be read directly from the field device can be selected

- Functionality is independent of device type and manufacturer

- Static parameters can be synchronized with the "Field device project synchronization" function

- The combination of parameter reading functions[1] is very effective and performant for data recording

1 – Acyclic, cyclic and synchronization
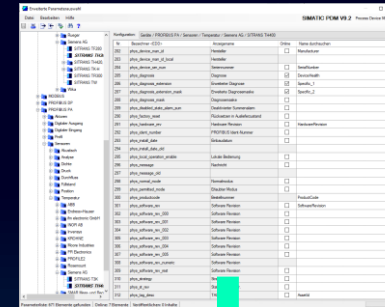
SIMATIC PDM
- Select device type
- Select parameters
- Assign browse name[1]

Maintenance Station
- Configure filter
- Parametrize function

SIMATIC PDM
- Export as XML file
- Export file always contains all parameters of a field device
- Browse Name as attribute for each parameter

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SIMATIC PCS 7 Process Historian & Information Server

What's new with SIMATIC PCS 7 V9.1

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Process Historian (PH) & Information Server (IS)
Advantages with further functionality

Features

- Update to MS SQL Server 2017
- IS: Improved overall user interaction and new dashboards with interactive controls
- IS: New templates for alarm management reports (ISA 18.2)

Key Benefits

- Improved interaction & performance
- New report templates
- Dashboards with interactive controls
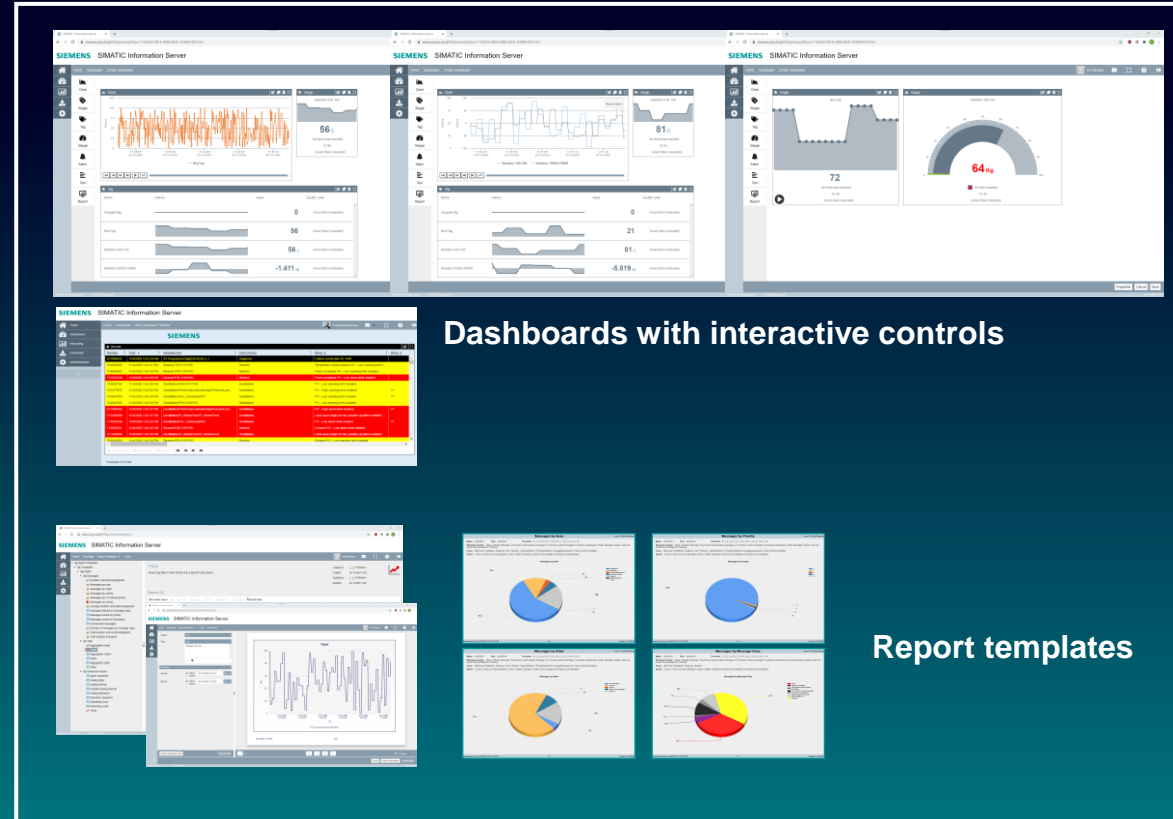
Dashboards with interactive controls

Report templates

Step 1: PH/IS 2020 is only released for new installations and in single configuration
Step 2: PH upgrade (2014 to 2020) and PH redundancy are planned to be released with PH 2020 SP1 in autumn 2021

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Process Historian (PH) & Information Server (IS)
Advantages with further functionality

Features

- IS: New design of IS Excel addin for bulk engineering (supported: 64 bit, Office 2019, Office 365)
- PH: Trend Viewer application
- Support of modern web based online documentation system (PUD manager)

PH Trend Viewer

IS Excel addin

Key Benefits

- PH Trend Viewer for installation and monitoring
- IS Excel addin: New interface for bulk engineering

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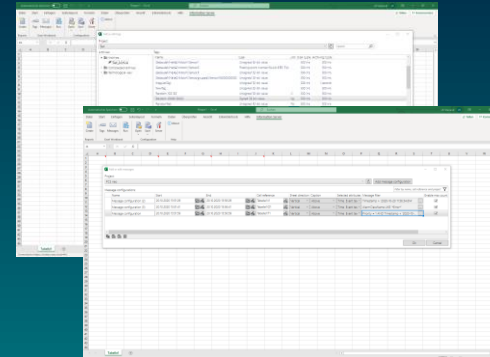
SIMATIC PCS 7 V9.1 – Security

What's new with SIMATIC PCS 7 V9.1

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Industrial Security in SIMATIC PCS 7 V9.1
New operating systems

Features

Support of Microsoft Windows operating systems
- Windows 10 Enterprise 2019 LTSC
- Windows Server 2019 Standard

Key Benefits

- Supported operating systems also in regards of security updates and hotfixes
- Continuously improved security features by Microsoft e.g., Windows Defender Antivirus

Windows
Operating System

SIEMENS

SIMATIC PCS 7 V9.1
Antivirus Solution based on integrated Microsoft Windows Defender Antivirus

+ Integrated antivirus solution provided with Microsoft operating system

→ No additional licenses required

+ Ongoing virus protection based on Microsoft Windows Defender Antivirus
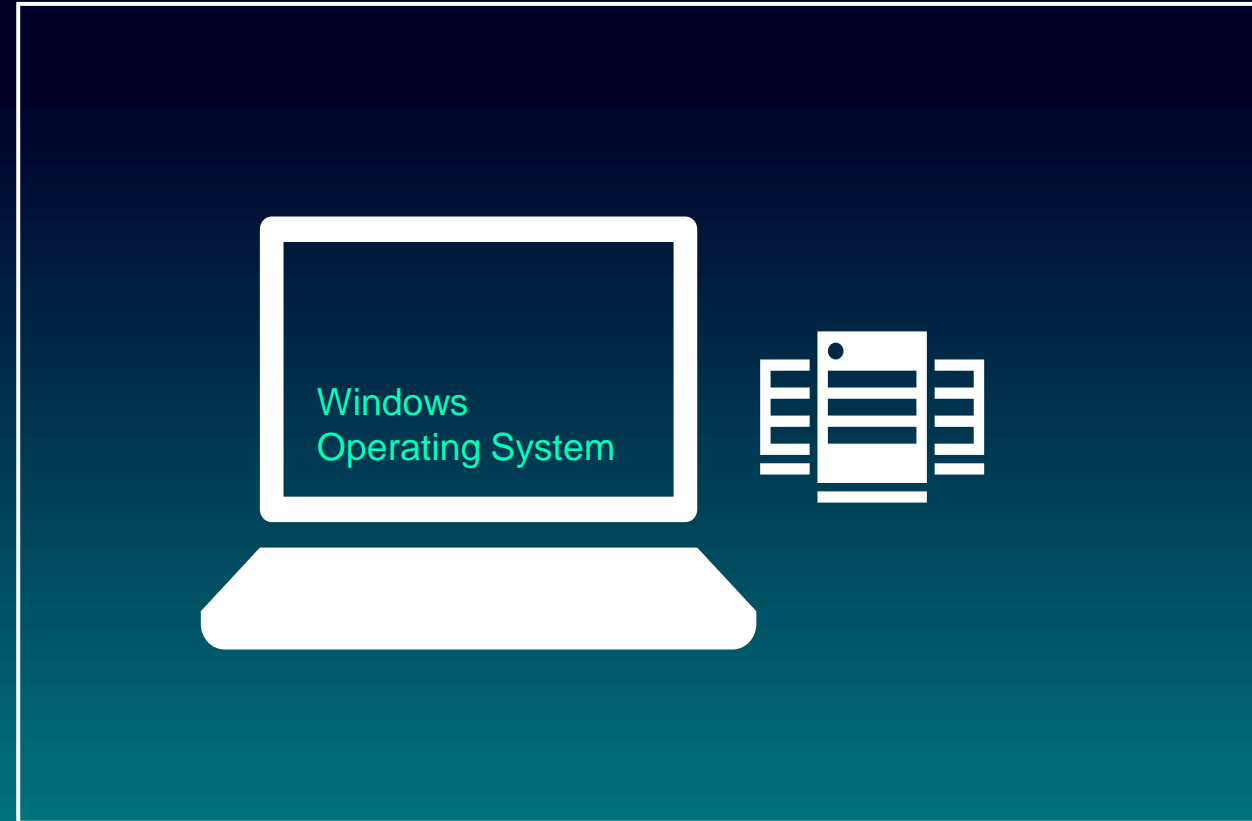
+ Automatic download of Defender definition updates based on WSUS[1]
(WSUS already used for operating system updates)

+ SIMATIC Management Console collects Defender Antivirus events from all computers

+ Reduced hardware footprint and maintenance costs
- No additional update server for antivirus software required
- Existing WSUS used for Defender updates
- Reduced effort for firewall configuration

....

Definition update sequence

→ Definition updates are downloaded from the Internet to the WSUS
→ Clients download automatically new Defender definition updates on a daily basis
→ Important Windows Defender events will be available on SIMATIC Management Console
↻ After successful download: Clients install the Defender definition updates automatically (no reboot required)

1 WSUS – Windows Server Update Services

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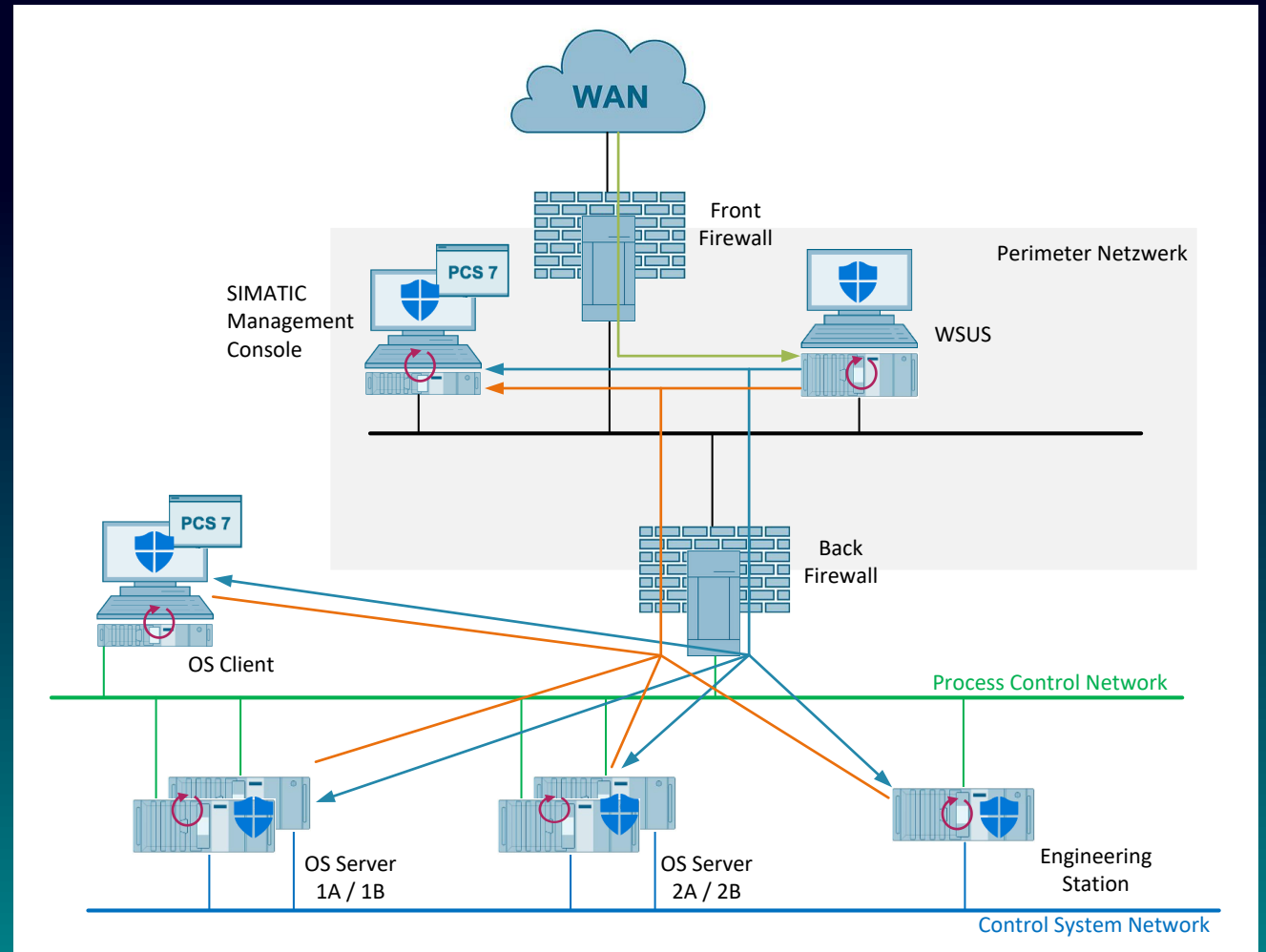
Industrial Security in SIMATIC PCS 7 V9.1
Supported Firewalls

Features

- Automation Firewall NG (Next Generation) based on Palo Alto Networks Firewall as system tested solution for front and back firewall (successor to the SecureGuard firewall)
- SCALANCE SC6xx-2C as system tested firewall for remote OS client stations and for bridged connections between different CSNs (most actual firmware V2.1.1 and later required)

Key Benefits

- Next Generation firewall with data analyses at the application level. This process filters malware out of network-based communication
- SCALANCE SC with state of the art security for industrial environments

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Industrial Security in SIMATIC PCS 7 V9.1
Backup & Recovery

Features

- SIDSI Backup & Restore – Professional (SIMATIC DCS/SCADA Infrastructure) is a system tested backup & restore solution
- Easy setup of PCS 7 compliant backup plans
- Backup Recovery Verification Tests

https://support.industry.siemens.com/cs/ww/en/sc/4784

Key Benefits

- Turn key solution with holistic support approach covering all hard- and software components
- State of the art backup and recovery solution for virtualized and non-virtualized environments

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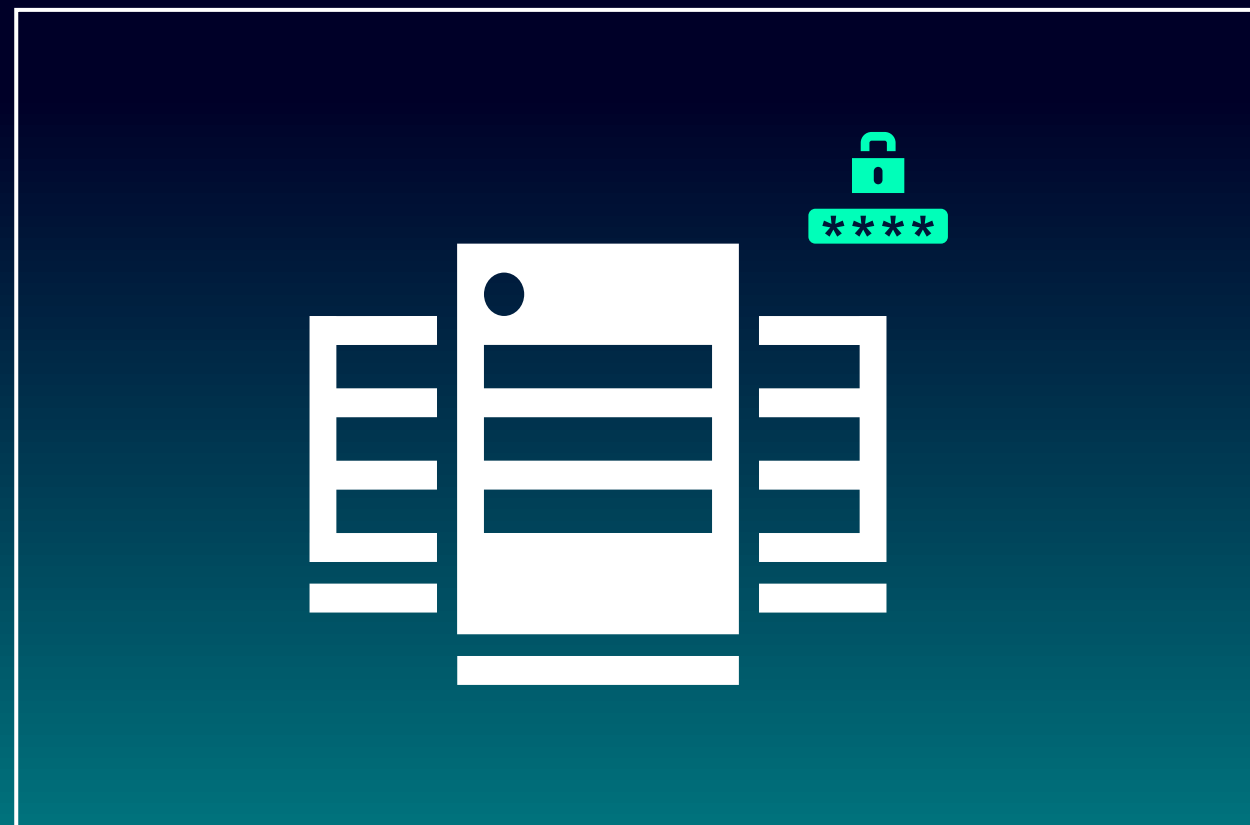
Industrial Security in SIMATIC PCS 7 V9.1
IEC 62443 Certification

Features

- Annual IEC 62443-3-3 / -4-1 recertification with TÜV Süd

  https://new.siemens.com/global/en/products/automation/topic-areas/industrial-security/certification-standards.html

Key Benefits

- Ensure that the IEC requirements are furthermore fulfilled with the new SIMATIC PCS 7 version
- Continuously improvement of SIMATIC PCS 7 based on regularly reviews

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SIMATIC PCS 7 V9.1 – PUD

What's new with SIMATIC PCS 7 V9.1

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SIMATIC PCS 7 V9.1
Modern Content Delivery Portal for PCS 7 Documentation

Features

- **Complete** scope of documentation in **one system**
- Allows Search on complete documentation
- User-friendly look & feel
- Extended functionality
  - Tabs allowing the user to open several help topics next to each other
  - Pinning of individual tabs

Key Benefits

- Complete documentation in modern look & feel
- "Find instead of Search" in all documents
- Effective usage of help possibilities
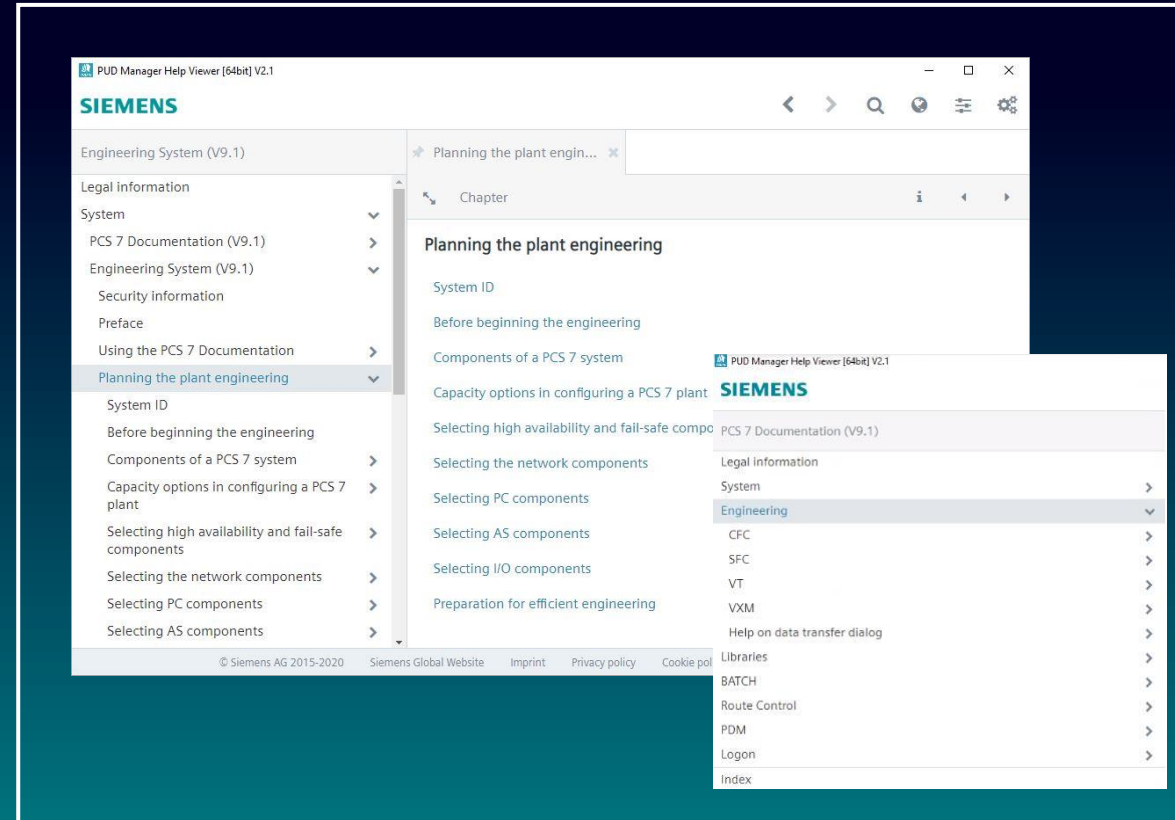
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SIMATIC PCS 7

Novedades v9.1

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