



New Perspectives with SIMATIC PCS 7 Process Control System

Exceeding the Requirements of the Process Automation Market: SIMATIC PCS 7 – more than just a process control system

Design and Engineering

- ✓ Advanced Process Library with extended functionality ✦
- ✓ Change management (Version Trail, Change Log, etc.)
- ✓ Concurrent (Multi-user) engineering capability
- ✓ Full material transport with SIMATIC Route Control
- ✓ New operation modes (Program, Out of Service, Local) ✦
- ✓ Centralized visualization schemas ✦
- ✓ Cause and Effect safety related programming
- ✓ Integrated control of widely distributed systems with TeleControl ✦
- ✓ Powerful controllers with scan times as low as 10 ms
- ✓ Redundancy (controller, I/O module, field/plant buses)
- ✓ Advanced Process Control functionality
- ✓ Bulk engineering functions including CAE/CAD connections
- ✓ IO Modules for hazardous areas
- ✓ Common hardware platform for Process Safety
- ✓ Drag-and-drop AS-AS communication ✦
- ✓ More adaptable CFC function blocks ✦
- ✓ SIMATIC PCS 7 AS RTX Microbox for economic solutions for labs, pilot plants and process OEMs
- ✓ Engineering Compendium with Engineering best practices ✦

Installation and Commissioning

- ✓ HART and FF fully integrated into PROFIBUS DP
- ✓ TÜV SIL 3-certified communication with PROFIsafe
- ✓ Redundant configuration of PROFIBUS and HART
- ✓ Sequence of events and time stamping down to 1ms
- ✓ Fiber-optic switching technology
- ✓ Checklists for common and relevant engineering tasks for faster, more effective documentation ✦
- ✓ Intrinsically safe applications all the way to Ex zone 0 can be handled by ET 200iSP I/O modules
- ✓ Forcing of connected CFC input parameters ✦

Operation

- ✓ Advanced alarm management
- ✓ Redundant archive management
- ✓ Extensive industrial security architecture
- ✓ Easy data exchange between auxiliary systems
- ✓ Modern and ergonomic user interface ✦
- ✓ Direct Excel link to real-time and historical data (DataMonitor) ✦
- ✓ Full OPC support
- ✓ Batch and Route Control fully integrated into the OS
- ✓ Enhanced trending boasting continuous x-y zoom, multiple trends and auto-scaling ✦
- ✓ User-specific alarm filtering ✦
- ✓ Wide-screen 16:10 and 16:9 resolution support
- ✓ Scalable client/server architecture, including a powerful web client
- ✓ Straightforward navigation (Loop-in-alarm, source of interlocking, bypass identification, jump to faceplate) ✦
- ✓ Automatic signal quality determination ✦

Maintenance

- ✓ Central, system-wide visualization, diagnostics and maintenance of all process control components
- ✓ Condition and plant performance monitoring
- ✓ System-wide maintenance document management
- ✓ Predictive maintenance features
- ✓ Integrated diagnostics with intelligent field devices
- ✓ Hot swapping of modules during operation

Modernization and Upgrade

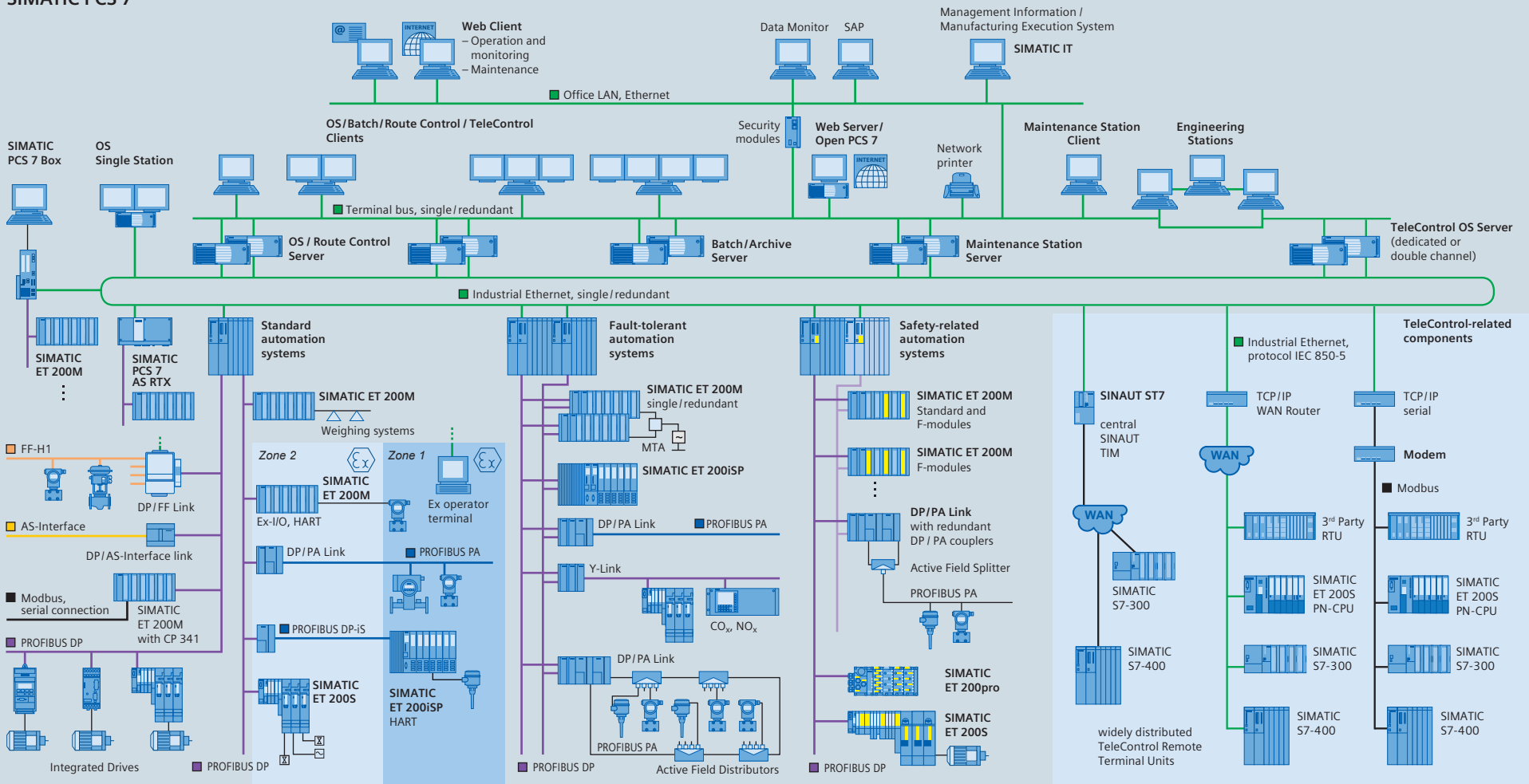
- ✓ Step-wise strategies for modernizing existing systems
- ✓ Online expandability

SIMATIC PCS 7

Answers for industry.

SIEMENS

SIMATIC PCS 7



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Subject to change without prior notice 09/09
 Order No.: E20001-A230-P280-X-7600
 DISPO 06303
 SCHÖ/22701 GI.AS.PS.XXXX.52.9.07 SB 09093.0
 Printed in Germany
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