



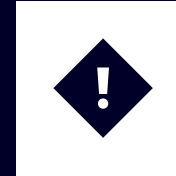
SIMATIC WinCC V8

The most established system

Powerful, flexible, future-proof!



**Industrial operations are
evolving faster than ever...**



Increasing system complexity, stricter cybersecurity requirements, and the shift toward connected, data-intensive operations are redefining requirements for SCADA systems.





What you need is...

... a next generation SCADA system with secure-by-design architecture, seamless connectivity, AI readiness, and scalable, high-performance industrial operations.



**Stay future-proof with
SIMATIC WinCC V8.2!**



The proven system for every industry

- And many more!***



SIMATIC WinCC V8

The right SCADA system for every application

Scalability

The right answer to growing requirements in all industries with stationary and mobile solutions – security guaranteed

Innovation

Future-proof innovative solutions e.g., Seamless IT/OT integration and AI readiness for smarter operations

Partners & support

Worldwide support based on the highest quality standards with certified partners and 24/7 Siemens Service and Support



Secure

Designed to meet security standards
Rely on a solution that ensures top-tier security according to IEC 62443

Efficiency

Efficient operations management and intelligent production analyses
by combining efficient engineering with powerful archiving and maximum data security

Openness

Special requests easily implemented through support of international standards and native scripting and programming interfaces

SIMATIC WinCC V8 – The Trusted and Proven Industrial Standard

Driving industrial excellence worldwide for 30 years and into the decades ahead

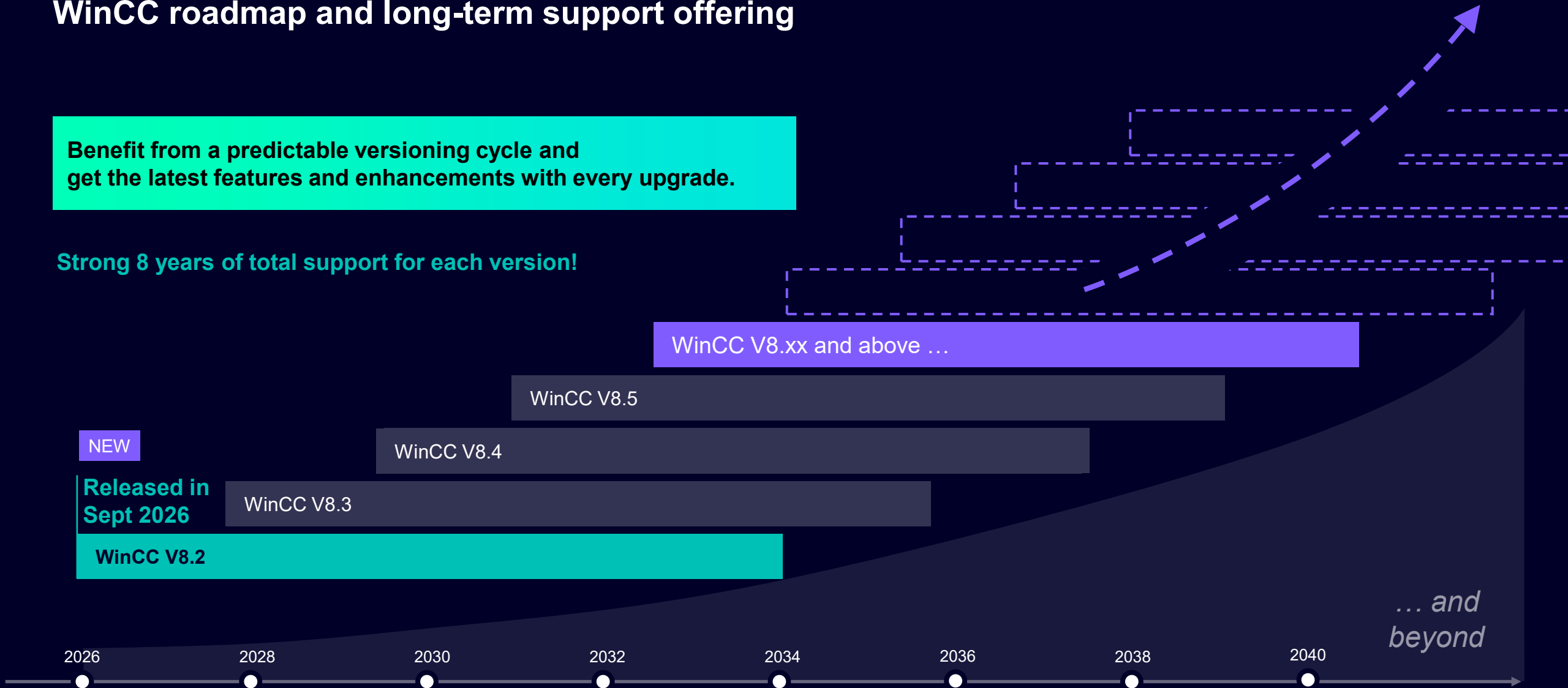


SIMATIC WinCC V8 future-proofs your SCADA platform for the coming decades, continuing the success of the industry's leading system.

WinCC roadmap and long-term support offering

Benefit from a predictable versioning cycle and get the latest features and enhancements with every upgrade.

Strong 8 years of total support for each version!



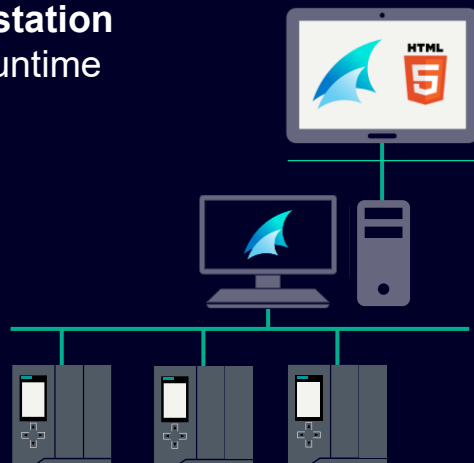
Preliminary planning – changes possible without notice

Ideal for all systems

Basic, large, and complex

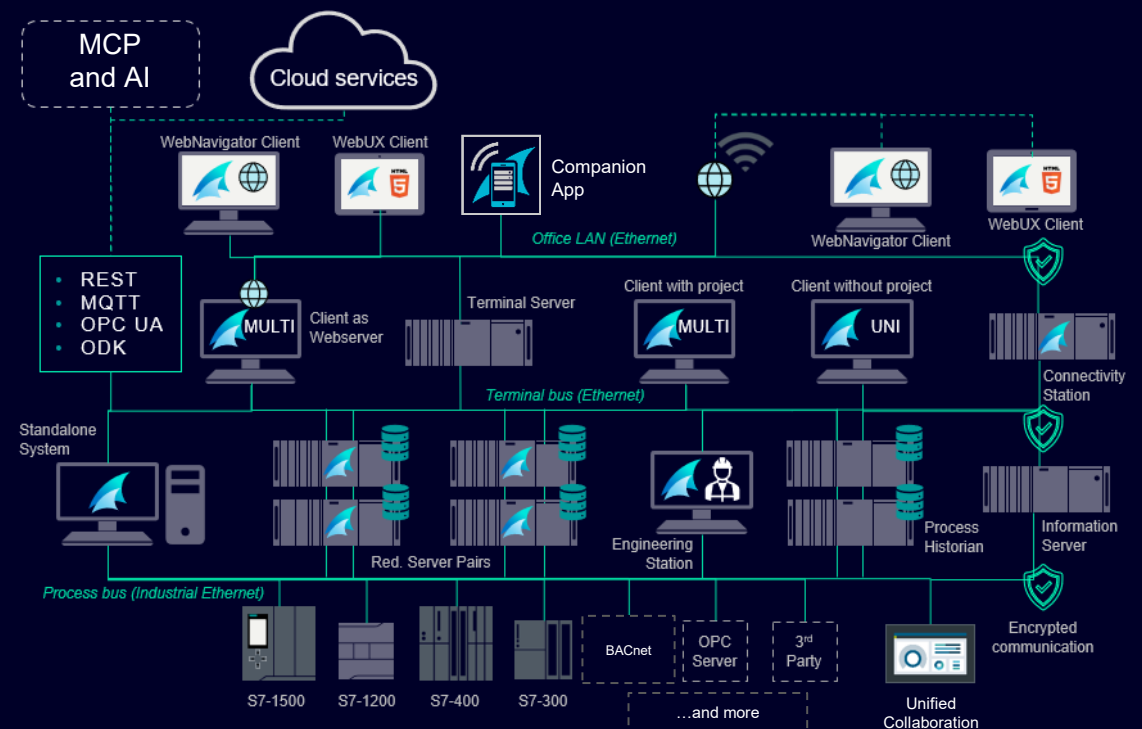
Basic systems

Single-user station
WinCC V8 Runtime



**Easily scalable
with maximum efficiency**

Large and complex systems

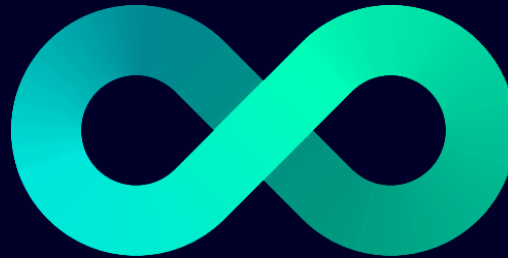


WinCC V8.2

SIMATIC WinCC licenses

Base system

- Starting from 128 PowerTags and unlimited internal Tags
- Starting with one included WebUX monitor client license



**Easily scalable licenses
from small to unlimited**

Unlimited licensing for unlimited possibilities

Achieve limitless potential with unlimited PowerTags and WebClient licenses.

Base system

- RT Licenses V8.2 WinCC RT Unlimited PowerTags
- RC Licenses V8.2 WinCC RC Unlimited PowerTags

WebClients (WebUX + WebNavigator)

- WebOperate Unlimited
- WebMonitor Unlimited

WinCC V8.2 - Highlights



Scripting



Standardization



OT Communication



Modern UI



IT & AI Connectivity



Efficient Engineering & Scalability



WebUX



Cybersecurity



Excel-based Reporting Templates



Collaboration with WinCC Unified





High-performance and future-ready scripting

Mastering your challenges with **JavaScript**



How can you implement advanced business logic?



Are your scripts optimized for parallel execution and peak performance?



How can you effectively handle logic across tags, alarms, and historical data?

JavaScript

High-performance and future-ready scripting

Introducing JavaScript to bring **high-performance scripting capabilities** to modern SCADA environments



Global actions and procedures with access to tags, alarms, and historical data



Multi-threaded execution for faster runtime performance



Advanced editor with IntelliSense and inline error guidance



Debugging JavaScript in Microsoft Visual Studio Code and with Chrome DevTools





Seamless and flexible OT communication

Mastering your challenges with **OT Communication**



How do you adapt to frequent PLC changes without manual re-engineering effort?



How do you integrate multi-vendor devices and systems seamlessly?



How do you simplify engineering of large and complex automation systems?

OT Communication

Seamless and flexible OT connectivity

WinCC enhances OT communication with **broader device connectivity, simplified engineering, and reliable integration**



Expanded connectivity with new channels for BACnet and SIMATIC LOGO!



Auto-import of PLC data structures from Siemens PLCs and OPC UA



Automatic update of PLC structure changes without re-engineering



Simplified engineering with automatic creation of nested structures



Redundant driver channels for maximum system availability





Scalable and data-driven IT integration

Mastering your challenges with **AI and IT Connectivity**



How do you enable real-time data exchange across different systems?



How do you integrate SCADA systems with external applications and IT systems?



How do you leverage operational data for advanced analytics and AI-driven use cases?

AI and IT Connectivity

Scalable and data-driven IT integration

WinCC enables **AI readiness, and ensures seamless, scalable, and secure data exchange** between SCADA and IT systems



Advanced IT connector that includes REST and MQTT publish for seamless integration



Full MQTT support with publish and subscribe for real-time data exchange



UNS (Unified Name Space) integration with structuring message topics and payloads



Open REST API for integration with external systems and applications



AI-ready connectivity with MCP for integration of AI applications for advanced analytics





Flexible web access from anywhere, at anytime

Mastering your challenges with **WebUX**



How do you enable consistent and intuitive visualization across different devices?



How do you adapt visualization dynamically to different screen sizes and environments?



How do you ensure reliable and scalable web access to distributed systems?

WebUX

Flexible web access from anywhere, at anytime

WinCC/WebUX enables **HTML5 based access with consistent visualization** across devices



Zero-effort WebUX screen creation with full support for core WinCC functionalities (e.g., BPC)



Companion app providing centralized and intuitive access to multiple WinCC systems



Adaptive design with configurable picture scaling for all screen sizes



Scalable and high-performance web access with load balancing and redundancy





Structured and efficient reporting

Mastering your challenges with **Excel-Based Reporting**



How do you efficiently generate uniform reports from your data?



How do you combine all data in a report?



How can you create state-of-the-art reports using modern widgets and charts?

Excel-Based Reporting

Structured and efficient reporting

WinCC enables **efficient and modern reporting** with **Excel-based templates** and direct access to production data



Reduces manual effort by automatically pulling runtime values, tag logging data, and alarm logs into predefined Excel templates.



Flexible report generation via schedules, event triggers, or manual execution in Excel and PDF formats



Traceable reporting with integrated audit data support



Access to recipe data for reporting, analytics, and documentation





Consistent and reusable engineering standards

Mastering your challenges with **Standardization**



How do you implement modular and standardized automation across projects?



How do you reuse control logic effectively across applications?

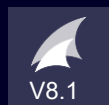


How do you ensure consistent engineering practices across systems?

Standardization

Consistent and reusable engineering standards

WinCC enables **modular and standardized automation** through consistent project design and reusable configurations



Built for standardization with cross-vendor integration, object-oriented engineering, reusable libraries, dynamic SVGs and more



Modular automation through standardized Module Type Packages (MTP) integrator



Ready to use libraries through SIMATIC Control Function Library (CFL)



Reduced engineering effort through reuse of templates and structures





Enhanced usability and operator guidance

Mastering your challenges with **Modern UI**



How do you design clear and visually structured interfaces for effective operator interaction?



How do you ensure a consistent visual design across all screens and applications?



How do you improve usability and reduce operator effort in day-to-day operations?

Enhanced usability and operator guidance

WinCC provides a **modern, user-friendly, and intuitive** visual experience



Dynamic SVGHMI creation with the SVGHMI editor and enhanced widgets



Smarter TrendControl with virtual sampling and string tags for context-based analysis



Dynamic Custom Web Controls and advanced dashboard widgets



Leverage a growing library of dynamic SVGs for diverse industrial applications





Efficient Engineering and Scalability

Mastering your challenges with a **strong Base System**



How do you ensure stable system operation under increasing load?



How do you maintain performance in complex SCADA projects?

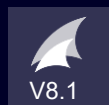


How do you simplify system management while ensuring reliability?

Strong base system

Efficient Engineering and Scalability

WinCC offers a powerful base system to **improve usability, upgrade flexibility, and engineering efficiency**



V8.1

Effortlessly create faceplates, screen objects, picture windows of elements from different hierarchy levels



Efficient object-oriented engineering with advanced faceplate and structure handling



Scale to 64+ WinCC clients, with or without dedicated projects, delivering **2× higher client capacity**



High-performance Tag Logging with cycle times down to 10 ms and option for uncompressed data archiving



Simplified system setup and improved usability with an updated installation and help system



2.8×

Scalability
50+ Servers per
Multiclient



Reliable and uncompromising cybersecurity

Mastering your challenges with **certified cybersecurity**



How do you manage certificates efficiently across distributed systems?



How do you ensure secure communication between SCADA components?



How do you stay compliant with evolving cybersecurity standards?

Reliable and uncompromising cybersecurity

WinCC consistently **safeguards your system** with encryption, access controls, and continuous monitoring to **ensure data security and confidentiality**



Robust IEC 62443-4-2 certified cybersecurity, meeting industrial security requirements



Advanced CMP (Certificate Management Protocol) enabling secure communication and simplified certificate handling



Secure and controlled system access with user management, access control, and data integrity checks



Support for latest cybersecurity standards for future-ready system protection



Integrated mobile authentication and seamless user access via the Companion app





WinCC cross-platform collaboration

Mastering your challenges with **Unified Collaboration**



How do you ensure seamless data exchange between WinCC V8 and WinCC Unified systems?



How do you consolidate audit data for consistent reporting and compliance?



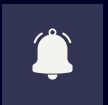
How do you unify alarm monitoring across WinCC V8 and WinCC Unified environments?

Integrated WinCC platform collaboration

WinCC enables **coordinated operation and shared data access across** WinCC V8 and WinCC Unified systems



Integrated data flow from WinCC Unified into WinCC V8 for consistent system visibility



Central integration of Unified alarm data into WinCC V8 for unified monitoring



Consolidated handling of Unified audit data within WinCC Audit V8 for consistent reporting and traceability



Integrate the WinCC Unified visualization directly into WinCC V8 for central control & operate without re-engineering



What makes **WinCC V8.2** exceptional ?



Powerful, flexible, future-proof.



Proven and trusted for more than 30 years

A SCADA system with a long-standing track record, ensuring reliability and stability for critical industrial operations



Next-generation SCADA system

Much more than a SCADA system, built for modern industry with IT/OT integration, AI-ready capabilities, and robust cybersecurity



Continuous innovation and future readiness

Driven by continuous innovation with long-term availability for future-proof operations

Powering Next-Gen. Data Center Infrastructure



40,000
Datapoints
streaming per
second

Shanghai, China

Dipu Intelligent Technology Co., Ltd.

Customer Challenge

- Manage complex facilities with 24/7 uptime requirements, industrial-grade reliability, and very high I/O volumes.
- Combine BMS, EMS, IT monitoring, environmental monitoring, security surveillance, visualization, and alarming in one solution.
- Forward operational data to higher-level IT systems for optimization, analytics, and future AI-driven data center requirements.

Solution

DIPUONE, powered by Siemens WinCC V8, delivers centralized data collection, visualization, alarming, and monitoring for data center infrastructure. Combined with Siemens PLCs, HMIs, and sensors, it enables complete deployment and commissioning, backed by Siemens training, support, and continuous optimization

Customer benefit

- Faster implementation: DIPU reports 60–70% faster implementation compared to earlier project phases.
- Scalable performance for large data centers: Supports facilities ranging from 24 MW to 96 MW and 200,000 to 400,000 I/O points per building.
- Seamless OT/IT integration: WinCC can stream up to 40,000 data points per second to customer IT systems via HTTP POST, enabling better visibility and optimization.

➔ Read more

Smart Data. Smarter Pharma Production.

FEUCHT, GERMANY

Excella GmbH & Co. KG

Customer Challenge

- Managing five lines with diverse formats while keeping data consistent.
- Integrating multi-OEM machines to reveal inefficiencies like micro-stops.
- Manual order-time entry reduces accuracy and real-time performance visibility.

Solution

Flexible SCADA data acquisition with WinCC V8 and PM-ANALYZE. Seamless integration of high-resolution signals from multiple OEM systems, high-resolution signals. Automate data recording, visualization, and archiving via dashboards and tablets.

Customer benefit

- Real-time transparency and productivity insights enable faster, data-driven decisions.
- Micro-stop detection speeds troubleshooting and boosts throughput without major investment.
- Automated order-time capture saves up to four hours weekly.

4 hrs
saved
per week

➔ Read more

Modernization of the Canal system

CANAL DE ARAGON AND CATALONIA, SPAIN

Canal of Aragón and Catalonia

Customer Challenge

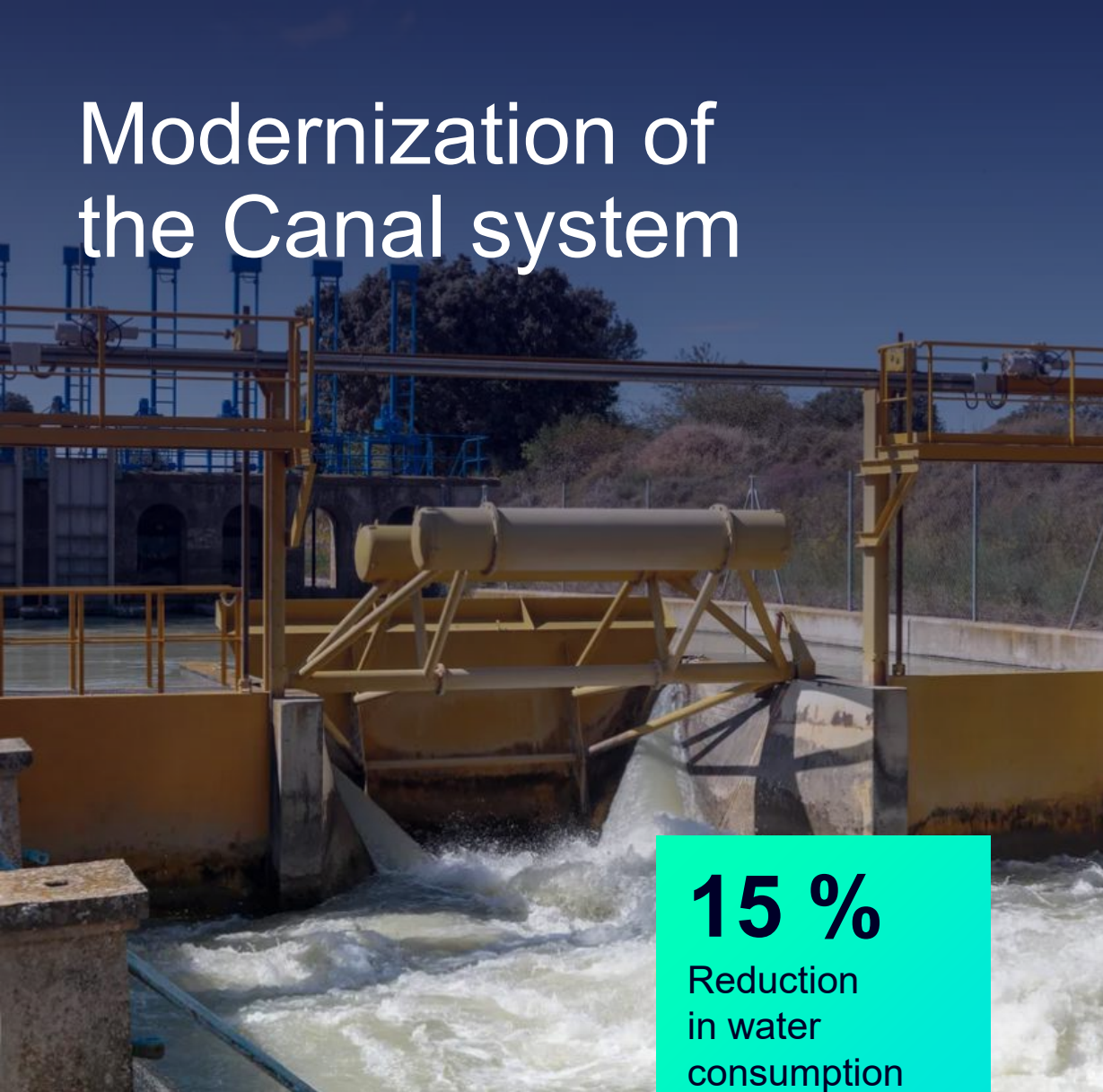
- Modernize legacy canal control system to meet current requirements.
- Centralized monitoring of 350 intakes across the entire network.
- Improve transparency where irrigation systems previously lacked automation and data.

Solution

WinCC V8 enable centralized monitoring with automated notifications. Thirty mobile tablets give field operators real-time system access anywhere. Combined central and mobile access ensures rapid decisions and efficient operations.

Customer benefit

- 15% water reduction achieved through real-time management and rapid detection.
- Mobile-enabled control center delivers full transparency across 350 intake points.
- Secure digital infrastructure ensures reliable operations and meets cybersecurity standards.



15 %

Reduction
in water
consumption

➔ Read more

At the Core of Large Hospital Infrastructure

HERLEV, DENMARK

Herlev Hospital

Customer Challenge

- Managing complex hospital systems requiring continuous 24/7 monitoring.
- Ensuring absolute system reliability with zero downtime for patient safety.
- Overcoming limited BMS integration restricting connectivity and integrator choice.

Solution

Powered by WinCC V8, the solution seamlessly integrates 370,000 data points with any protocol, offering extensive scalability. Delivering secured and reliable solution with zero PLC issues and runtime updates capability. Standardizing operations with uniform interfaces, reducing maintenance costs and enabling energy savings.

Customer benefit

- Technical superiority with scalability, universal integration, and advanced automation.
- Operational excellence with 99.9% uptime, zero PLC issues, and runtime updates.
- Cost-effective solution delivering significant energy savings (3 MW), reduced maintenance costs, and an extended system lifecycle.

99.9 %

Uptime
Achieved

➔ Read more

Significantly improved traceability

Traceability
across
the entire
production line

SOUTH AFRICA

Tiger Brands

Customer Challenge

- Upgrade Citect system for a robust, long-term automation solution.
- Increase transparency and traceability in batch reporting and recipes.

Solution

Monitoring and Control with a combination of SIMATIC WinCC 7.5 and PM-Addons with the associated network and control equipment that included communication converters, PLCs, VSDs, and ASI modules for various process areas

Customer benefit

- TIA Portal as unified engineering platform with site-wide diagnostics.
- WinCC 7.5 and PM-Addons enhance visualization and traceability.
- Consistent, precise batching ensures accurate throughput and quality.

➔ Read more

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