



SIMATIC WinCC V8.2

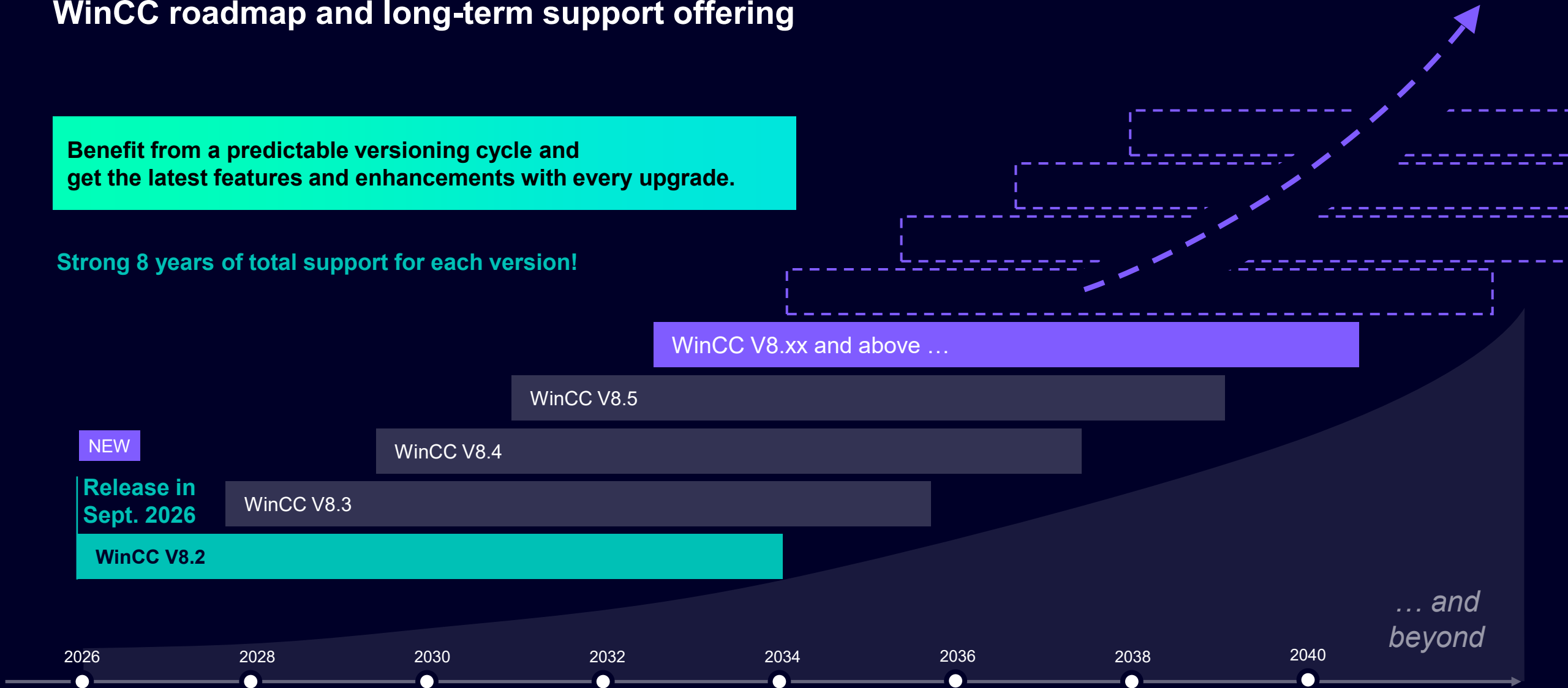
Release news

<https://siemens.com/wincc-v8>

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

Scripting

- Introduction of JavaScript for global Actions (Access to Tags, Alarms and Historical Data)

OT - Communication

- Support of array as data structure
- New Channels (BacNet, LOGO!/S7-200 Smart)
- Enhanced use of redundant connections

IT & AI - Connectivity

- Full MQTT support (Publish & Subscribe)
- AI connectivity via MCP Server

WebUX

- Adaptive Design and configurable picture scaling
- Support of redundancy and loadbalancing
- SIMATIC WinCC Companion

Excel based reporting templates

- Support of Audit
- Support of User Archives

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Highlights

Standardization

- Support of Module Type Package (MTP)
- Support of Control Function Library (CFL)

Modern UI

- Advanced Dashboard widgets
- SVGHMI Editor
- TrendControl: Virtual Sampling and String Tags

Base system

- Retrofit and many quality-of-life improvements (New setup, new help system, ...)
- TagLogging: Fast- & Uncompressed Logging

Cybersecurity

- Enhanced certificate handling (CMP – Certificate Management Protocol)
- Support of the latest cybersecurity standards

Collaboration with WinCC Unified

- Integration of Unified Audit entries in WinCC Audit V8
- Integration of Unified Alarm Data in WinCC V8

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Base system enhancements – The right toolkit for all your tasks

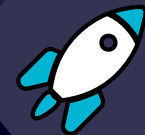
Retrofit

- New installation including all options
- New web-based information system
- SQL Server 2025



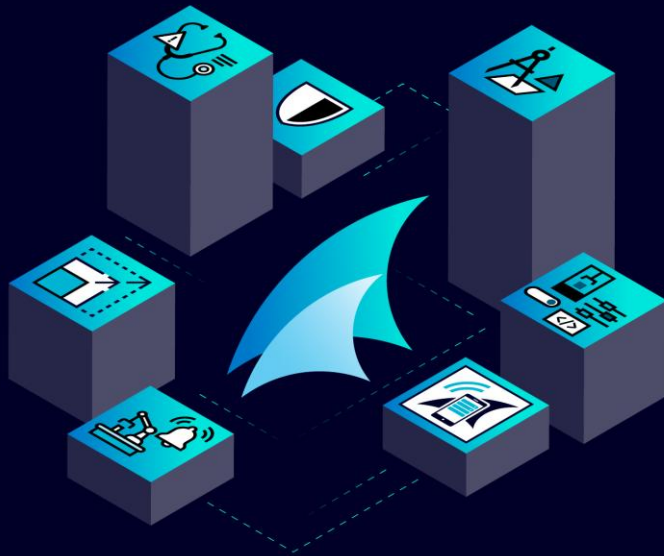
Quality of Life improvements

- GraCS: Dynamization Overview
- GraCS: Additional option for alignment of objects
- GraCS: Selection browser for SVG Control Objects
- GraCS: File browse possibility for Custom Web Control Host
- GraCS: Scripting – multiple script windows
- Filtering for error records in Configuration Studio
- Integrated mechanism to recreate the DCF file



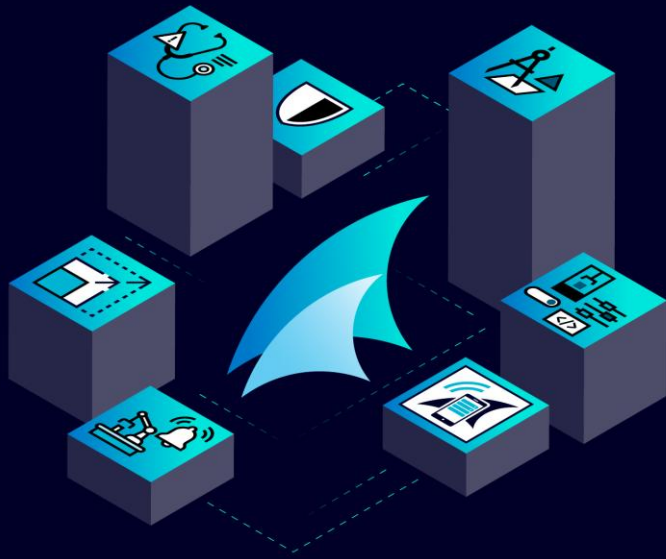
Efficient- / Object oriented engineering with Faceplates

- Faceplates: Full support of published tags for animations with expressions
- Faceplates: Instance Lock for OpenScreenInPopup Parameters
- Faceplates: Reorder Interface properties via Drag & Drop
- Faceplates: Using several structure and array tags with same structure type



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Base system enhancements – The right toolkit for all your tasks



Tag Logging – Longterm archiving of process data

- Tag Logging: Option for archiving selected tags as “uncompressed”
- Tag Logging: New fast cycles (10ms) for time-limited measurement tasks
- Tag Logging: Support array datatype tags



Basic Process Control (OS-Project Editor)

- Individual configurable alarm hiding time
- Separate lists for manually to be hidden and for automatically to be hidden alarms
- Option to switch between "traditional" and "ocean" icons



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Scripting – Intelligent Automation, Enhanced Efficiency



Support of JavaScript

- Project modules and global actions
- Multi thread architecture to run script actions in parallel
- HMI object support of tags, alarms and tag logging
- Smart Assistance Editor with IntelliSense, syntax checking and auto-completion



Enhanced functionalities for all script languages

- Access to tag arrays via Script: ANSI-C, VBS and JavaScript
- Runtime Context Detection for ANSI-C, VBS and JavaScript



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OT Communication – Seamlessly Integrating Your Industrial Landscape



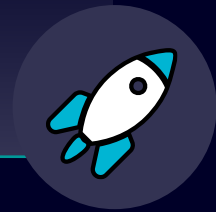
NEW Channels

- BACnet
- SIMATIC LOGO!
- S7-200 Smart G2



Quality of Life improvements

- Support of array as data structure for the basis datatypes of WinCC
- Automated update of structure type changes
- Create nested structures including substructures
- S7-1500 Software Redundancy: Simplified configuration workflow
- OPC UA Server: Improved usability to configure settings
- Sort of folders in tree view when import tags from PLC / File / OPC UA



Channel enhancements

- OPC UA client support of redundant Server
- OPC UA enhanced complex structure support
- OPC UA offline configuration support (load from a file)
- OPC UA more contextual alarm messages
- Modbus TCP/IP support of redundant connections
- Enhanced PI functions for WinCC Sinumerik NC channel



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IT & AI Connectivity - Integrating Production Data with Your Digital Ecosystem



AI Connectivity

- Integration of WinCC to AI via MCP server based on REST API
- Access to Runtime data for AI based analysis: Runtime values of Tags, Archiving system (Tag Logging), Message system (Alarm logging)
- Read configuration data for project analysis and optimization: Queries for project wide search, Tag Management Configuration



Full MQTT support (UNS)

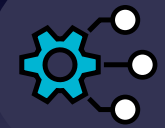
- MQTT Channel: allowing subscription to MQTT topics
- IT Connector: Enhanced publish functionalities for MQTT



MQTT

IT Connector & REST API

- Define criteria for the tag trigger: Filter by value, Qualitycode and Varstate
- Template-Based Configuration for Data Points
- Redundancy > Uni-Clients can be used as Gateway
- REST API: OAuth 2.0 with the bearer token



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WebUX – Access to your production data anywhere at anytime



Adaptive Design

- Identify screen dimensions of WebUX client
- Configurable picture scaling mode for WebUX Clients



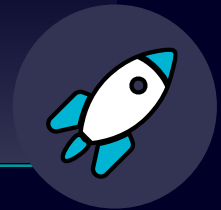
Support of redundancy scenarios

- Loadbalancing
- Redundancy



Enhanced functionality

- Support of the UserAdminControl
- Custom specific font distribution from WebUX server
- Enhanced script functions for the TrendControl to create new trends at RT
- Support of Drag & Drop from IO-Fields to TrendControl
- Authorization check for screen access



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Modern UI – Enhanced usability and operator guidance



SVGHMI

- SVGHMI Editor – public release
- New SVGHMIs: SIMATIC Devices (PLCs, IPCs, ...) and Time widgets
- Enhanced Dashboard Widgets



TrendControl

- Enhanced functionality of “Drag and Drop from IO field to TrendControl”
- Configure Fill Pattern and Color for Trend Curves
- Display context related information (Strings) in the trend
- Visualize Aggregated Historical Data Using Virtual Sampling
- Configure a Tag for Trend View/Table in one step in RT



Custom Web Controls (CWC)

- Support of Arrays in the property interface



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Reporting – Streamlined data analysis with Excel based report templates



Enhanced functionalities of the WinCC Excel Add-in

- Support of User Archive Data
- Support of Audit Data
- One WinCC Excel Add-in for WinCC V8 and WinCC Unified



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Standardization – Solve a wide range of automation tasks extremely efficiently



Modular automation based on standards

- Support of MTP (Module Type Package)
- Support of CFL (SIMATIC Control Function Library)



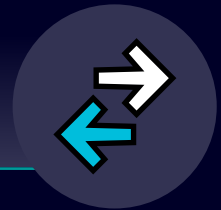
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Collaboration with WinCC Unified – Bridging systems for a central view



New data integration from Unified in WinCC V8

- Integration of Unified Alarm Data in WinCC V8
- Integration of Unified Audit relevant Data in WinCC Audit V8



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Cybersecurity – Secure by Design, Resilient in Operation



Cybersecurity enhancements

- Support of certificate management protocol (CMP)
- Support of UMC
- Separate authorization levels for Engineering and Runtime
- Authorization check for screen access
- User Admin Control: Support of SIMATIC RFID Card / Reader
- Integrity check of WinCC project data



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