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WinCC Unified System V17

Bienvenidos
Comenzamos a las
9:30

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TEAMS – Silenciar micrófono. La sesión será grabada

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

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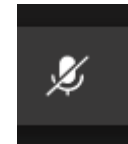
WinCC Unified System V17

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Bienvenidos
Comenzamos a las
9:30

01:14

La sesión va a ser grabada



Se ruega silenciar micrófono

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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:

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

Selecciona la respuesta ^

- 22/06/21 - Webinar - Motorreductores SIMOGEAR: Versátiles y Robustos. Novedades de producto.- Horario: 16:00-17:00 h
- 25/06/21 - Webinar - Novedades TIA portal V17.- Horario: 09:30-10:30 h
- 02/07/21 - Webinar - Sistemas redundantes seguros para la Industria Discreta e Híbrida. Nueva CPU S7-1518HF.- Horario: 09:30 a 10:30 h



SIMATIC WinCC Unified V17

Novedades

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TIA Portal

Highlights of TIA Portal V17

WinCC Unified

- Improved screen engineering with new style
- Graphics and faceplates (with functional enhancements) in library
- Extended communication and 1st set of system diagnostic
- Audit for PC
- WebClient for panel
- Plant Intelligence Options

WinCC – Innovations

- WinCC Advanced: Template & Popup screens in the library
- WinCC Professional: Rawdata for S7-1500, new system tags, SQL 2017

STEP 7 – Innovations

- CEM – Cause Effect Matrix
- CFC – Continuous Function Chart (planned for July 2021)
- Download / Upload of user groups
- Functional enhancements in the cross-reference list
- Openness extensions for project generation

Startdrive – Innovations

- Support of SINAMICS G115D
- S120: Data set switching, manual optimization
- SINAMICS DCC: Know-how-protection

Hardware configuration

- Global Offline/Online comparison
- Offline/Offline comparison at parameter level
- CPU 1518HF-4PN: Safety and redundancy
- Extended quantity structures for S7-1500 and ET200 CPUs
- Extensions for CPU 1518 MFP
- Disable and enable I-Device
- DHCP and DNS for S7-1500 and ET200 CPUs
- Web server innovations
- S7-1200 Highlights with FW4.5 (OPC UA/Webserver)
- CPU 1518T/TF-4 PN/DP: High performance motion control

System functions

- Openness extensions for libraries and UMAC
- User Management & Access Control (UMAC)
- Library
- Security by default
- TIA Portal language packs
- Last used objects

TIA Portal Options

- **STEP 7 Safety**
Fast Commissioning, nested UDTs, Openness-extensions
- **SIMATIC Safe Kinematics**
Function, advantages and requirements
- **Multuser**

TIA Portal Options

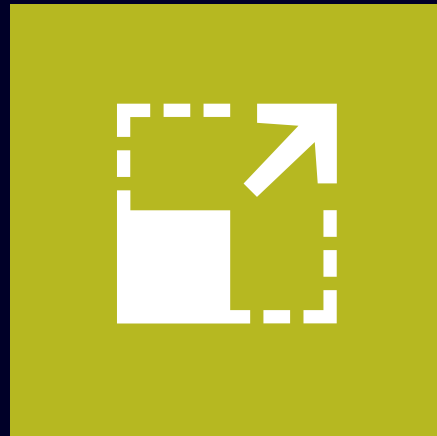
- **OPC UA**
S7-1200: Diagnose, methods; S7-1500: Alarms and Conditions, Server modelling, Client: new Compact blocks, GDS – certificate handling
- **PLCSIM/PLCSIM Advanced**
Support of S7-1500 R/H CPU, secure communication with OPC UA, OUC und HTTPS
- **SIMATIC Target for Simulink**
Code-generation for SIMATIC Edge & LiveTwin
Integrated S-functions for PLCSIM Adv coupling
- **Test Suite**
Openness Support of style guide Check and application test
- **SiVArc**
Support of WinCC Unified, new expressions, usability enhancements
- **Energy Suite**
Improved load management and flexible energy data connections (by Proxy-DBs)
- **Central User Management (UMC)**
Single Sign-on, SIMATIC Logon-protocol, licensing
- **Modular Application Creator**
- **ProDiag**
Monitoring within PLC Data Types, usability improvements
- **Teamcenter Gateway**
Single Sign-on, PKI, Linking between Teamcenter and TIA Portal objects

SIMATIC WinCC Unified System

The DNA for the future of visualization



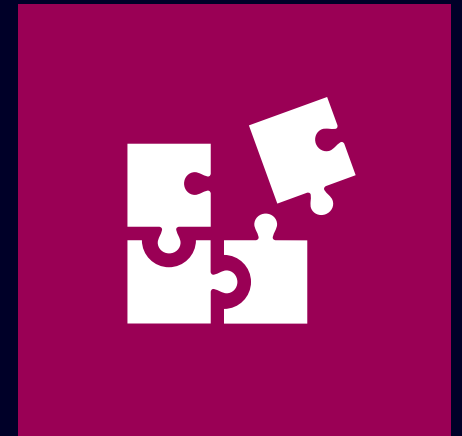
Technology



Scalability



Everywhere



Integration

SIMATIC WinCC Unified System Platforms



SIMATIC WinCC Unified
View of Things



SIMATIC HMI
**Unified Comfort
Panels**



SIMATIC WinCC Unified
PC



SIMATIC WinCC Unified
**for Industrial
Edge**

Preview



TIA Portal V17 – Highlights

Junio 2021

WinCC Unified V17 Highlights

Efficient Engineering

- **Screen Editor**
 - properties for multi selection
 - Snap to object, ...
- **Faceplates (reuse of objects)**
 - Static and dynamic extensions
 - Rotation of faceplates
 - Workflow in libraries
- **Parameter Control**
 - Complex structures (UDT in UDT)



Modern UI & Standardization

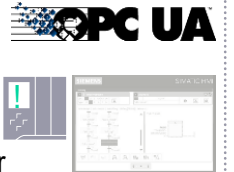
- **UI Enhancements**
 - F(x) for UCP
 - Alarm Hitlist (PC), ...
- **Management of objects in libraries**
 - Versioning and deployment
 - Integration of faceplates and graphics

Adaptability

- **Styles**
 - New additional Styles
 - (dark and bright) as day / night switch

Connectivity

- **Soft PLC**
- **OPC UA**
 - DA (Server, Client)
 - A&C (Server)
- **Diagnose**
 - Diagnostic-indicator
 - S7-1500 diagnostic buffer
- **Native 3rd Party Connectivity**
 - Modbus, Alan Bradley, Mitsubishi, Omron
- **Continuous Connectivity**
 - CSP after release (tbd)



Distributed Systems

- **Collaboration**
 - screens
- **Clients**
 - operate (Unified Comfort Panel & PC)
 - monitor (PC)
- **User Management (local)**
 - Custom defined function rights
- **Central UMC**



Archiving and traceability

- **Archiving**
 - new SQL Server Version
- **Audit (PC)**
 - RT Tracing
 - Basis for GMP
- **Reporting (PC) via Excel PlugIn**
 - E-Mail distribution
 - Central storage



Plant Intelligence Options

- **Calendar**
 - Reporting, Usability
- **Performance Insight**
 - KPI Re-Calculation, Drill down
- **Sequence**
 - Import and Export, Access protection
- **Line Coordination**
 - Recipe scaling, Monitoring act. values

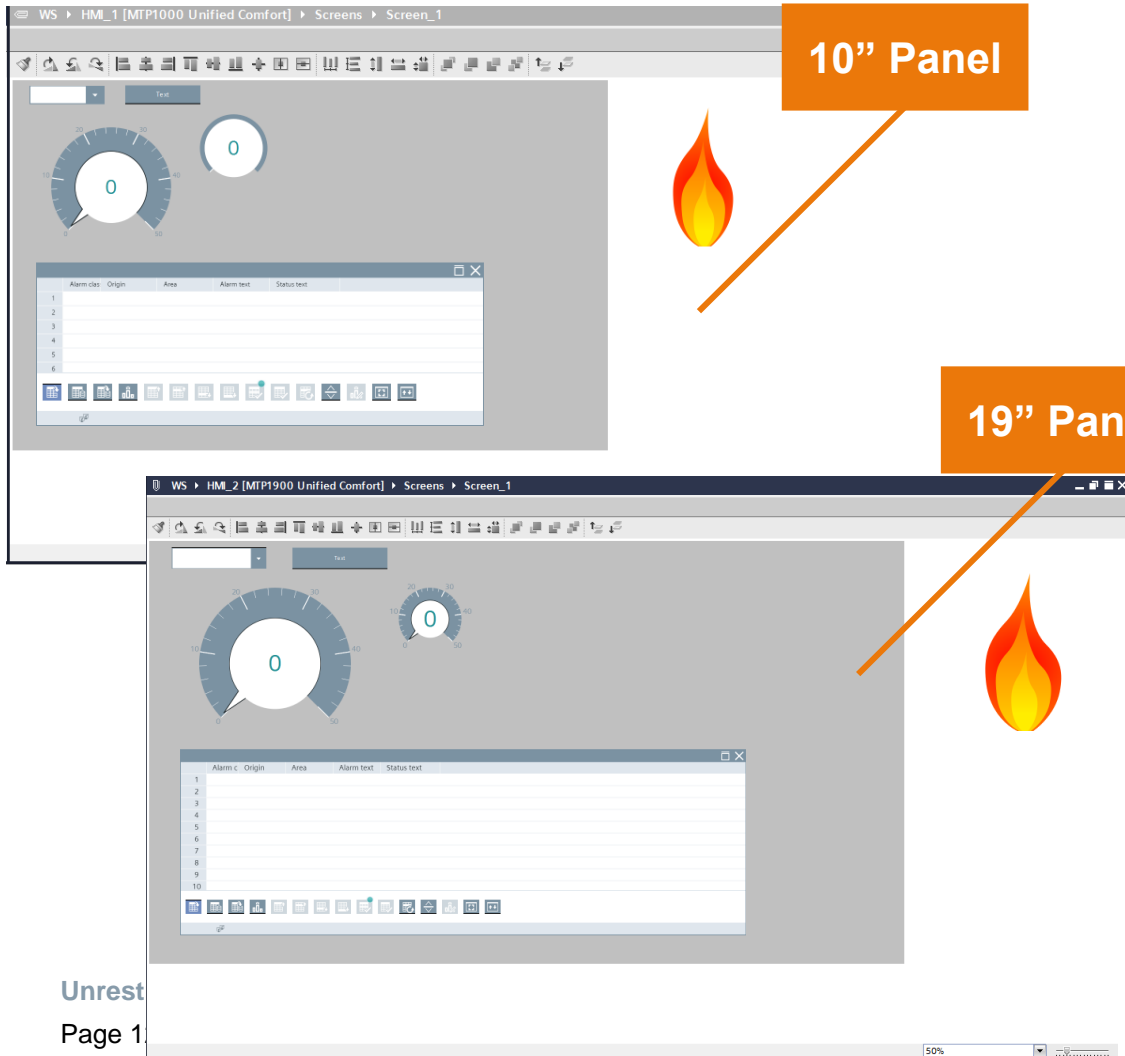


WinCC Unified V17 – User Interface Engineering efficiency – Change device

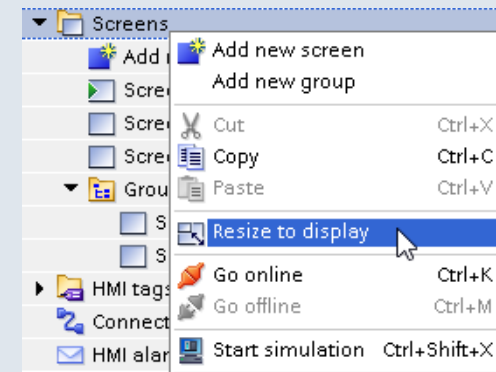


Unified Comfort Panel ✓

PC ✓



Reuse projects for different devices
and adapt existing screens to new screen size



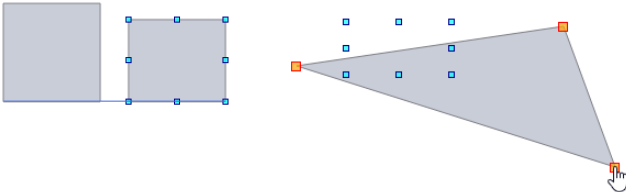
Resize Screen to display for

- All screens
- A group of screens
- One screen

WinCC Unified V17 – User Interface Engineering efficiency

Unified Comfort Panel ✓

PC ✓



Line handling

free “drawing” of Polyline & Polygon

Add / remove points via context menu

Improvement “Snaplines”

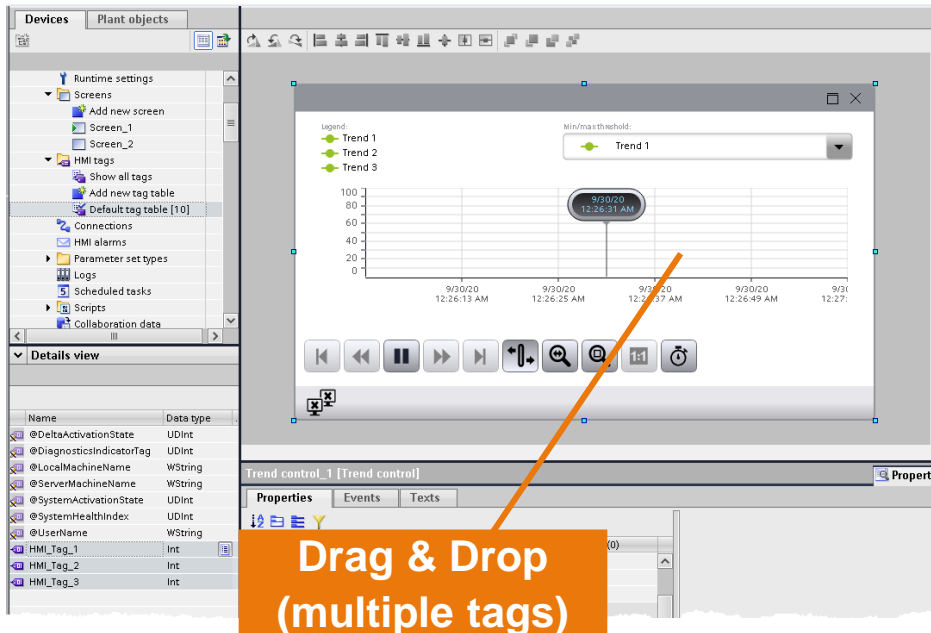
- works by adjusting the size of objects
- preview snapline by insert new screen objects

Improvement “Multi-Selection”

change the common attributes of multiple objects

Extension of Drag&Drop

works now on switch and trend control, e.g. select multiple tags and insert to trend control





WinCC Unified V17 - Engineering efficiency

Extended Animation dialog

Tag _____

Process

Tag:  

PLC tag:

Address:

Settings

Use indirect addressing





Read-only

Type

None

Range

Single bit

Condition	Background color	Flashing	Alternate value	Frequency
0	 255, 0, 0	Yes	 255, 255, 0	Medium
1	 0, 255, 0	<input type="button" value="No"/>	 255, 0, 0	Medium <input type="button" value="v"/>

select a bit

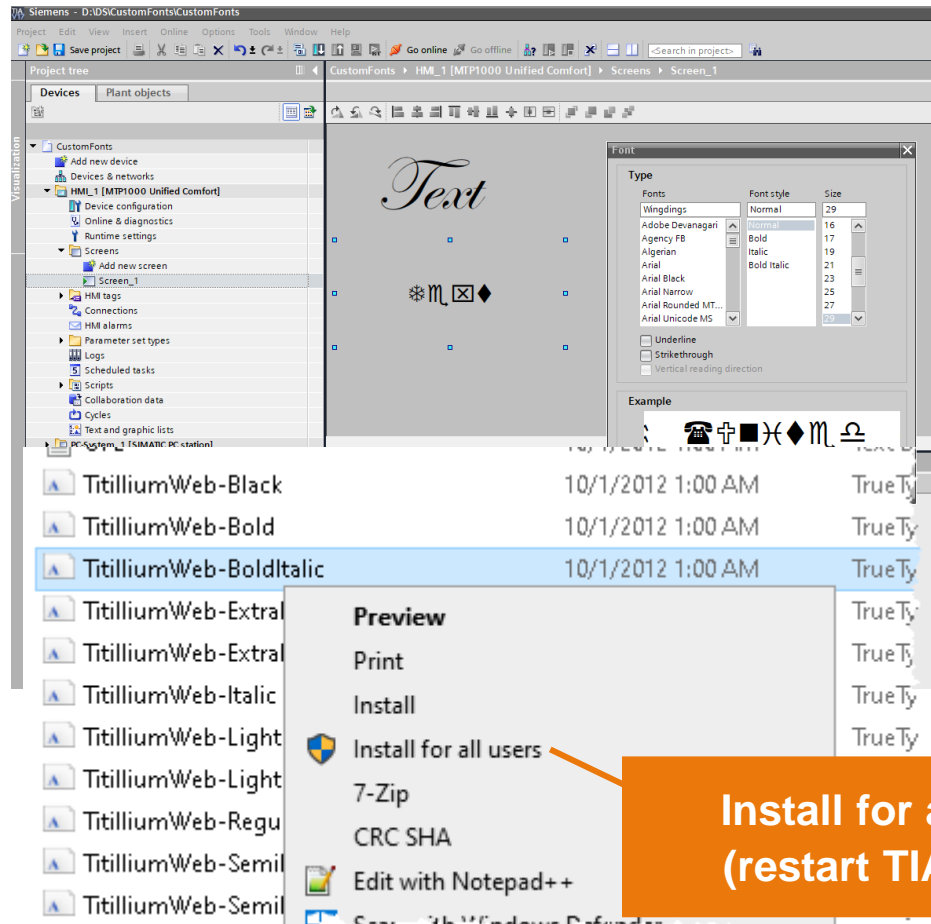
enable flashing if needed

WinCC Unified V17 – User Interface

User defined fonts

Unified Comfort Panel 

PC 



Use additional Fonts

Only fonts that based on TrueType-Fonts (TTF) (PostScript fonts and open type fonts that contain PostScript data are not supported)

WYSIWYG using True Type Fonts for

- Fonts with icons
- language or signs support

Ease of use due to integration

- Fonts are included in TIA Portal project
- No extra installation on Runtime device

WinCC Unified V17 - User Interface

Optimized usability using Styles

Unified Comfort Panel 

PC 



Select style for each Unified device

- Out of 3 predefined styles

New flat styles

- Adapted look and feel e.g. for bar
- Responsive behavior depends of the item size

Improve readability e.g. Day/Night

- Change style at Runtime
 - Bright style during daylight
 - Dark style during night

WinCC Unified V17 - User Interface Multitouch - 2 Hand Operation ^{NEW}

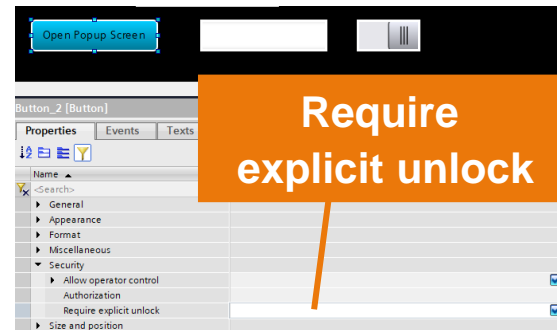
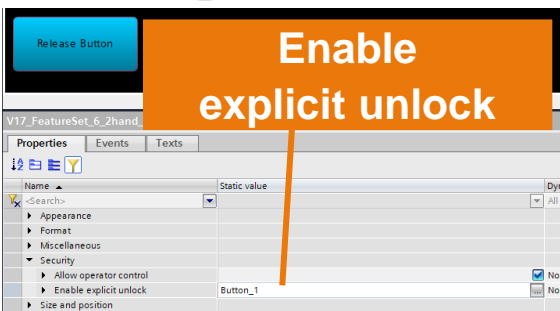
Unified Comfort Panel ✓

PC ✓



Protection against unintended operations

Secure operation as the operator has to press the “Release” Button for critical tasks e.g. via IO-Field, Slider,..



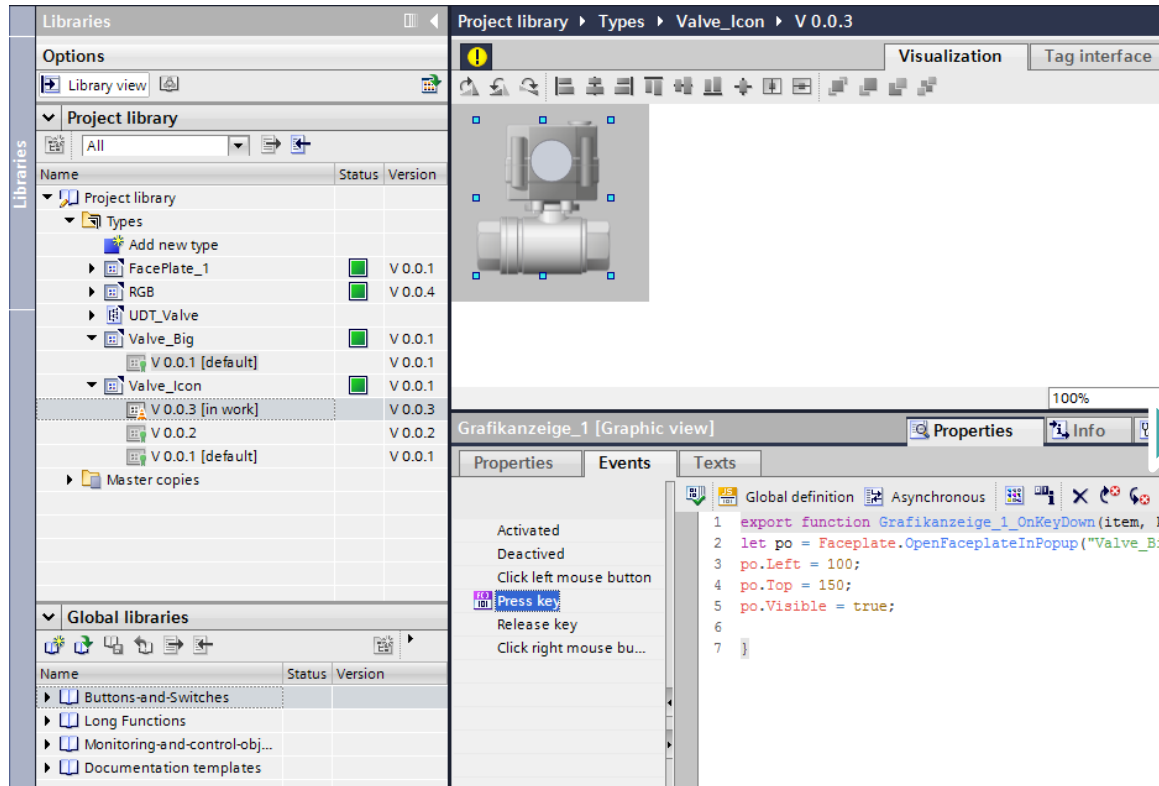
Fast and easy Engineering

Set Release button „Explicit unlock“ for HMI screen and select screen items which are relevant for secure operation

WinCC Unified V17 - Faceplates Engineering in TIA Portal Library

Unified Comfort Panel ✓

PC ✓



Conversion from Common Data: Unified V16 Faceplates will be moved and converted to TIA Portal Library automatically. Add PLC UDTs as type to the library in V16 to reuse them on the interface,

Types in TIA Portal Library



- Faceplate Types to use as instances or popups
- Instances and popups get a reference to a type and specific version of the type
- Graphics Types to use in Faceplates or Screens

Versioning


- Unified Faceplates are handled like simple type versions
- Instanced can be rewired to a higher or lower version as well as to other types
- Different versions of one type can be used in parallel
- Definition of a „default version“ to be used


WinCC Unified V17 – User Interface

Alarm Hitlist – Statistical evaluation of alarms

Unified Comfort Panel  PC 

	ID	Name	Alarm text	Modification time	Average raised raised	Average raised cleared	Average rais	Frequency
1	1	My BitAlarm	MyBit Alarm	1/11/21 6:16:57 AM	2.10	0.396	0	5
2	3	Analog_high	to high	1/11/21 6:16:59 AM	0	0.908	0	1
3	2	Analog_low	to low	1/11/21 6:17:01 AM	1.119	0.463	0	3
4								
5								



7 

Statistics setup

Time range for statistics

Time range start: Start time:

Time range factor: Time range base:

Free configurable statistic view for alarms
in relation to the selected time range

User defined evaluation regarding

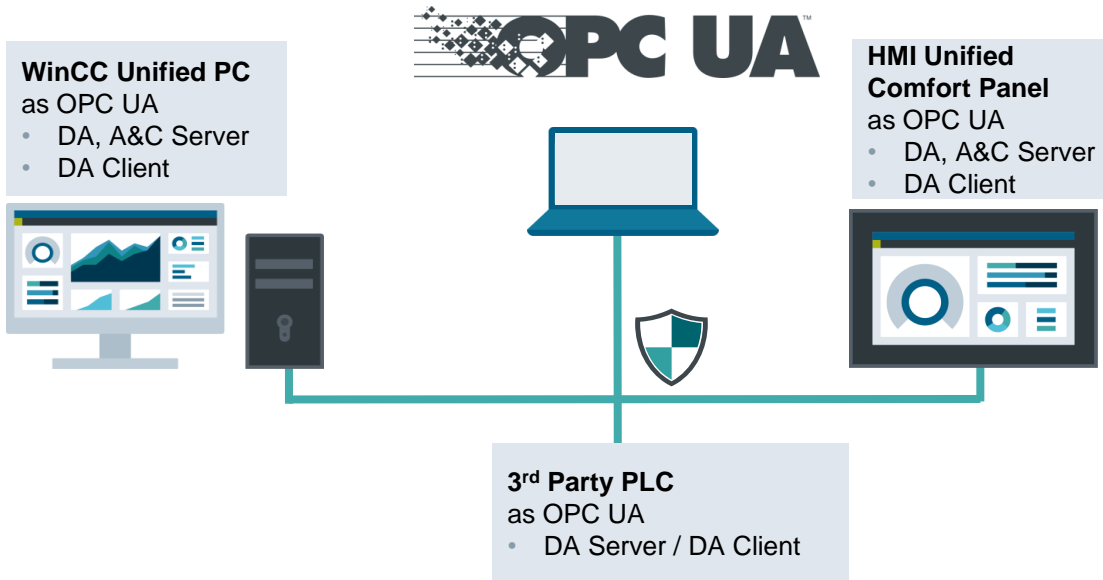
- Frequency of alarms
- Total or average alarm time in seconds for different aspects (in/out/acknowledgement)

Alarm Hitlist user interface e.g.,
print (hardcopy) or the export statistical data
Direct integration of Alarm Hitlist to Unified reports

Alarm logging must be activated to use the Alarm hitlist.

WinCC Unified V17 – Connectivity Using standard interface OPC UA

Unified Comfort Panel ✓ PC ✓



Data Access	server ✓	client
Alarms & Condition	server ✓	client ¹ ✖
Methodes	server ✖	client ✖
HA	server ✖	client ✖

¹ A&C Client in V17 with limited functionality for SINUMERIK ONE

Standard connectivity via OPC UA
DA Server & DA Client
A&C Server NEW

OT/IT connectivity via OPC UA
to forward data to 3rd party applications

✓ **Automation connectivity** via OPC UA
to integrated 3rd party PLCs



SIMATIC OVERVIEW

WinCC Unified PC V17

SIMATIC WinCC Unified PC Enhancements with V17



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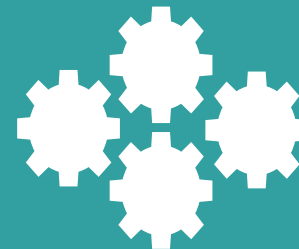
Connectivity

- Soft PLC
- OPC UA
 - DA Client
 - A&C Server
- Further native 3rd Party



Distributed System

- Clients
 - Remote access with web clients (Operate / Monitor)
- Collaboration für Unified Comfort Panels und PC-basierte Systeme
- User Management



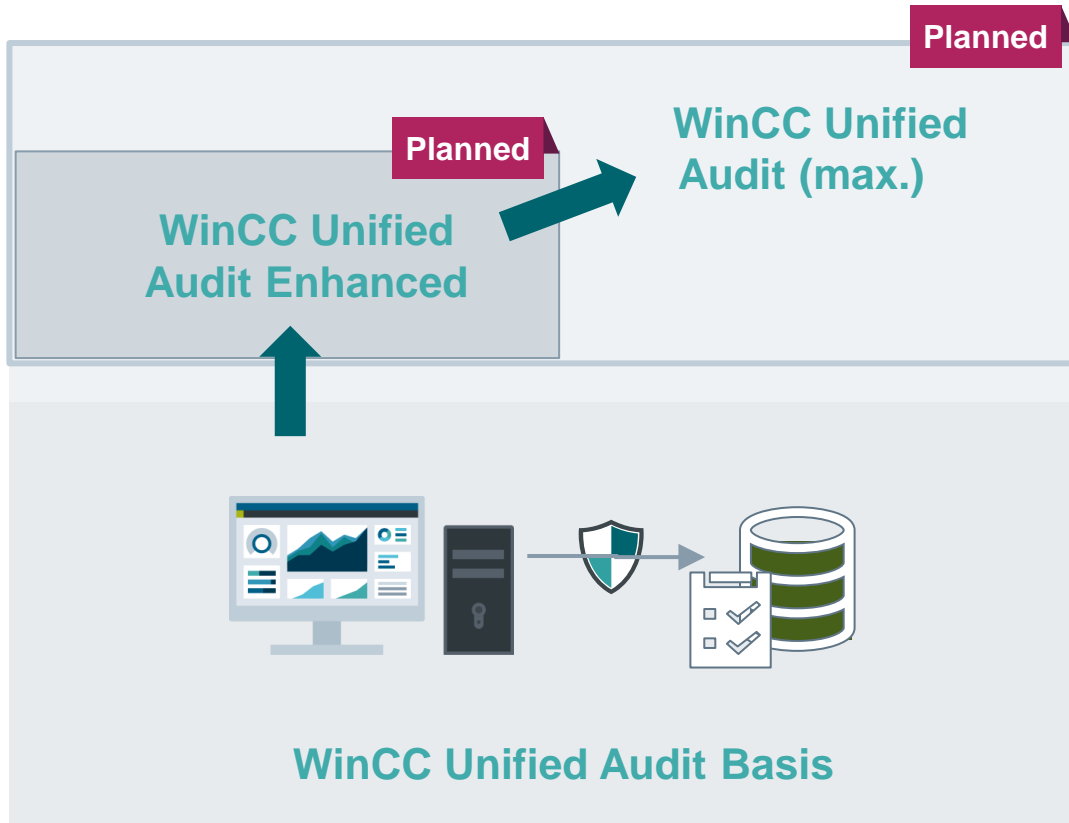
Archiving and Traceability

- Archiving – New SQL Version
- Audit
 - Runtime Tracing
 - Base for GMP
- Reporting
 - E-Mail Distribution



WinCC Unified V17 – Audit Overview

Unified Comfort Panel  PC 



WinCC Unified Audit Basis

- Audit Trail logs & Detection of manipulation
- Audit Trail records for Tags
- Audit Confirmation and Audit Trail report

WinCC Unified Audit Enhanced

Planned

- Incl. “WinCC Unified Audit Basis”
- Add. Audit Trail records e.g. Alarms, User Mgmt
- Additional features e.g. Audit Control

WinCC Unified Audit (max.)

Planned

- Incl. “WinCC Unified Audit Basis & Enhanced”
- Advanced features e.g. PI Options

WinCC Unified

Audit Option



WinCC Unified V17– Audit Basis Summary

Unified Comfort Panel  PC 



Document changes of process tags via **Audit Trails**
- use Reports for evaluation

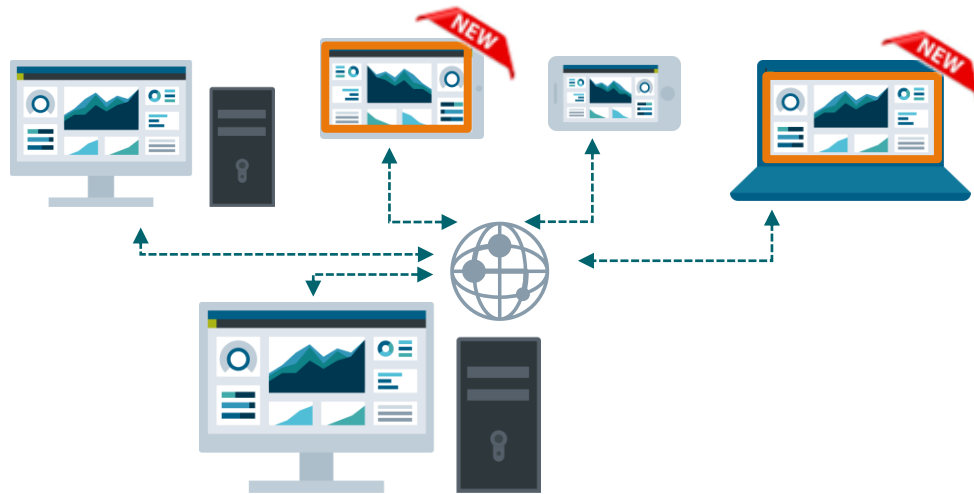
Record changes
of process data
(manual, automated, Script)

Comment the reason of change plus the system response on demand

High level of security due to secured communication and **manipulation detection**

WinCC Unified V17 – Unified PC systems Remote Control

PC ✓



Every WinCC Unified PC Runtime system includes:

- The local visualization Client (installed or via browser)
- **ONE “Operate” Client**
- **ONE “Monitor” Client**

The maximum number of clients can be extended (optional).

Client "Operate"

enables remote operation according to assigned user role

Clients "Monitor" ^{NEW}

enables remote operation in view-only mode

Asynchronous access of numerous users
(simultaneous access is licensed)

Windows Server is mandatory
for more than 5 Clients !

SIMATIC WinCC Unified – Tools SIMATIC Runtime Manager

Unified Comfort Panel ✕ PC ✓

The screenshot shows the SIMATIC Runtime Manager interface. At the top, there are buttons for 'Unified Comfort Panel' (disabled) and 'PC' (active). Below is a search field for 'Rechnername oder IP-Adresse:' with 'localhost' entered. The main area is titled 'Projekte' and contains a table of projects. A gear icon in the top right of the table is highlighted with an orange box. A red arrow points from this gear icon to the 'Additional Properties' section. Another orange box highlights the 'Autostart' column, with a red arrow pointing to the 'Start a dedicated project (auto start)' section. A third orange box highlights a refresh icon in the bottom right of the table, with a red arrow pointing to the 'Restore or delete database segments' section. A status bar at the bottom shows 'Projekt erfolgreich gestartet' and an 'OK' button.

Projekt	Autostart	Gerätename	Zustand	Typ	ID
<input type="checkbox"/> V17_Projekt	<input type="radio"/>	HMI_RT_1	Stopped	Simulation	96212402-4cee-4986-bcf9-b0754553e0ca
<input checked="" type="checkbox"/> V17_Projekt	<input checked="" type="radio"/>	PC1_proj	Running	Project	24f80130-75c7-5203-ecaa-062f0a5cd8d4
<input type="checkbox"/> V17_Projekt	<input type="radio"/>	PC2_proj	Stopped	Project	b4782aa8-7b3f-a445-2612-87954b81b596
<input type="checkbox"/> V17_Projekt	<input type="radio"/>	HMI_RT_2	Stopped	Simulation	7e2632da-bfab-4f74-b033-e644abe679e3
<input type="checkbox"/> V17_Projekt_2	<input type="radio"/>	PC_RT_S1	Stopped	Project	3996ab18-0217-b10e-edee-ab21b29926c9
<input type="checkbox"/> V17_Projekt_2	<input type="radio"/>	PC_RT_S1	Stopped	Simulation	3996ab18-0217-b10e-edee-ab21b29926c9

Manage WinCC Unified projects



- Run, stop or switch projects
- Activate / Deactivate Debugging
- Manage 3rd party certificates (e.g. OPC UA Client)

Additional Properties



- Additional settings for Runtime start with auto scale, reset options, settings (debug, certificates,..)

Start a dedicated project (auto start)



- Auto start settings keep marked even if other projects are started, full or delta downloaded

Restore or delete database segments

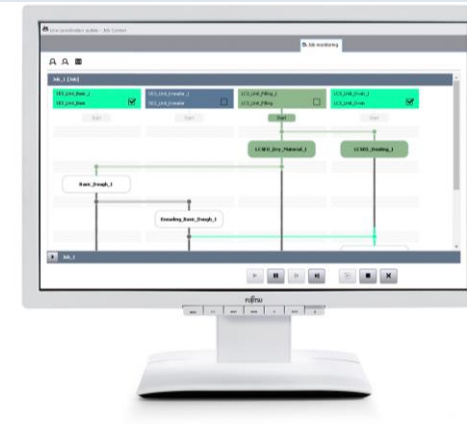
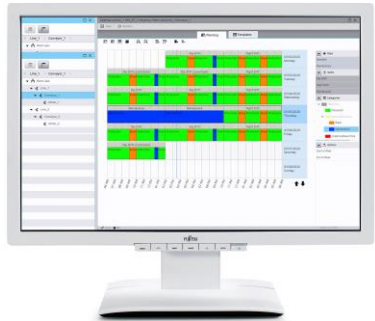


Several WinCC Unified projects can be downloaded to one PC station.

SIMATIC WinCC Unified

Plant Intelligence Options for PC based system

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- Define working time of machines or lines
- Planning the execution of activities relative to a timeline

- Calculation of the performance of machines/lines/plants
- Downtime analysis

- Fast and simple changeability of procedures
- Clear overview of the manufacturing steps and current status

- Orchestration of production procedures
- Overall definition of complete procedure and recipe at line level

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Mejoras V17 UCP

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[siemens.com/unified-comfort-panels](https://www.siemens.com/unified-comfort-panels)

SIMATIC HMI Unified Comfort Panels – News with TIA Portal V17 at a glance

Distributed Systems

Setup of distributed configurations by sharing screens between WinCC Unified devices via Collaboration.



Unified Comfort Panel Web Client (HTML5)

Independent remote access via web browser for additional operator stations.



Modern User Interface enhancements

New F(x) Control, custom fonts, new flat styles (day/ night switch) and 2-Hand operation.



**Available with
TIA Portal V17**

Extensions for Parameter control

e.g. UDT in UDT or multilanguage support.



Enhancements for communication

Integration of OPC UA Client and Modbus RTU.



Enhancements for user management

Configure individual function rights and integration to central user management (UMC).

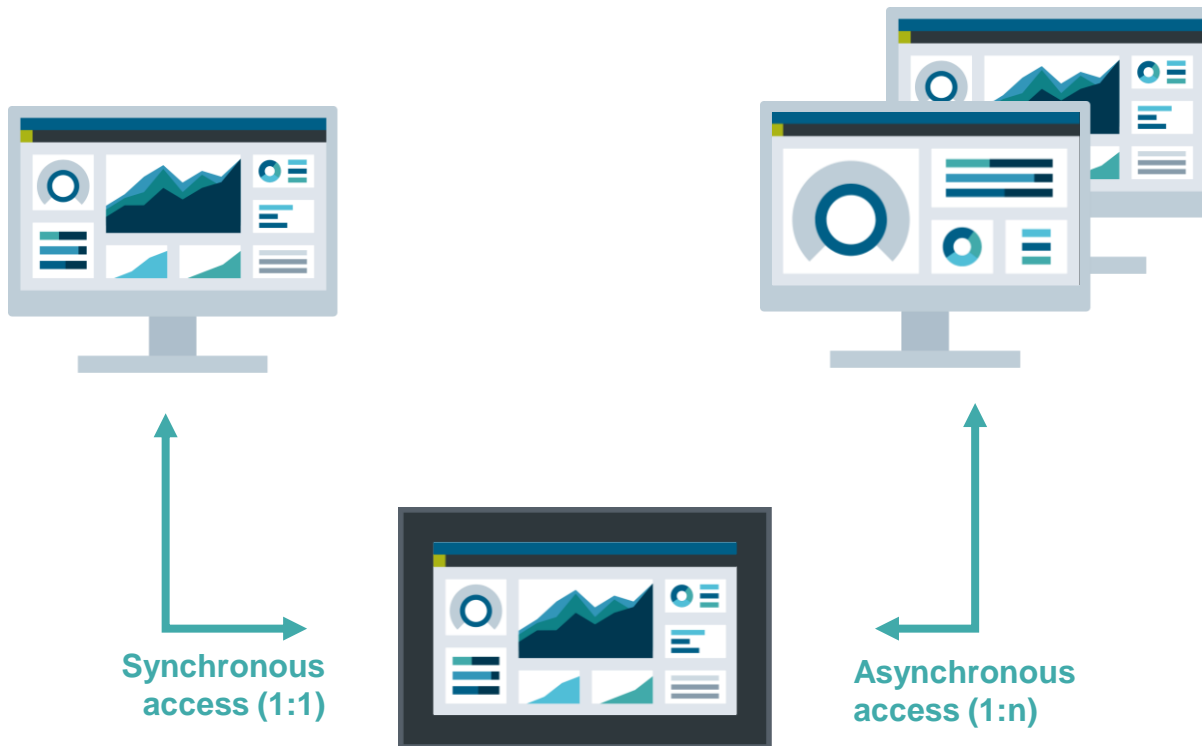


Enhancements for system diagnostics

Easy access to diagnostic information (diagnose buffer) of SIMATIC PLCs.



SIMATIC HMI Unified Comfort Panels – More flexibility to use the visualization during operation



Asynchronous access

- Remote operation & monitoring with any modern web browser
- No need for apps or plugins
- Independent from the operation on-site
- Up to 3 web clients for each Unified Comfort Panel. (One “Operate” Client is included.)

Synchronous access

- Based on the well established Sm@rt Server / -Client concept
- Synchronized remote operation with the operation on-site
- Accessible with Sm@rt Client App or with third party VNC-apps

SIMATIC HMI Unified Comfort Panel Remote Control

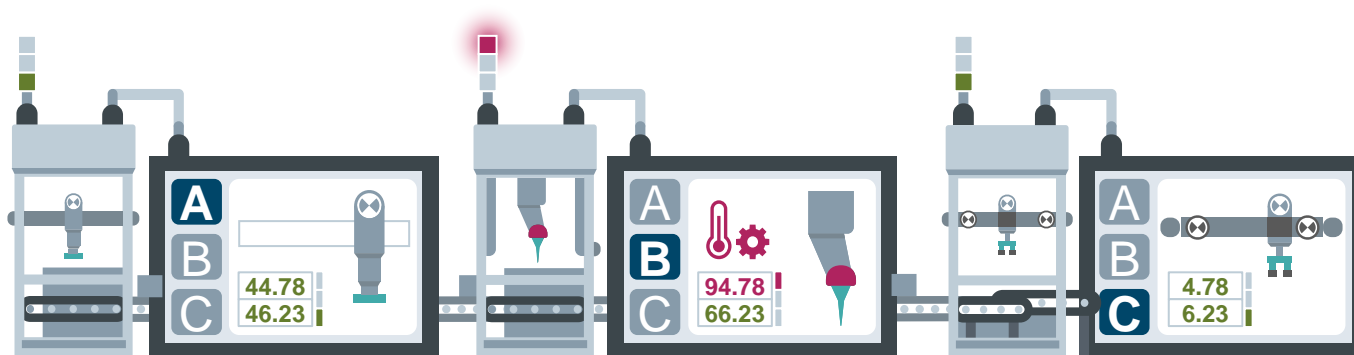
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Unified Comfort Panel Web Client

- Maintenance-free and without additional software
- Independent from the on-site operation at the device
- Completely based on native web technology (HTML5)

Use Case: Establish distributed configuration Increased engineering and operational efficiency



Challenges

The Engineer implements 3 machines and a central PC station as line supervision.

To be more economical, costs must be reduced regarding engineering, commissioning and maintenance.

Standstills, must be shortened by quick reaction.

Moreover, the line supervisor needs access to all stations without opening a separate tool.

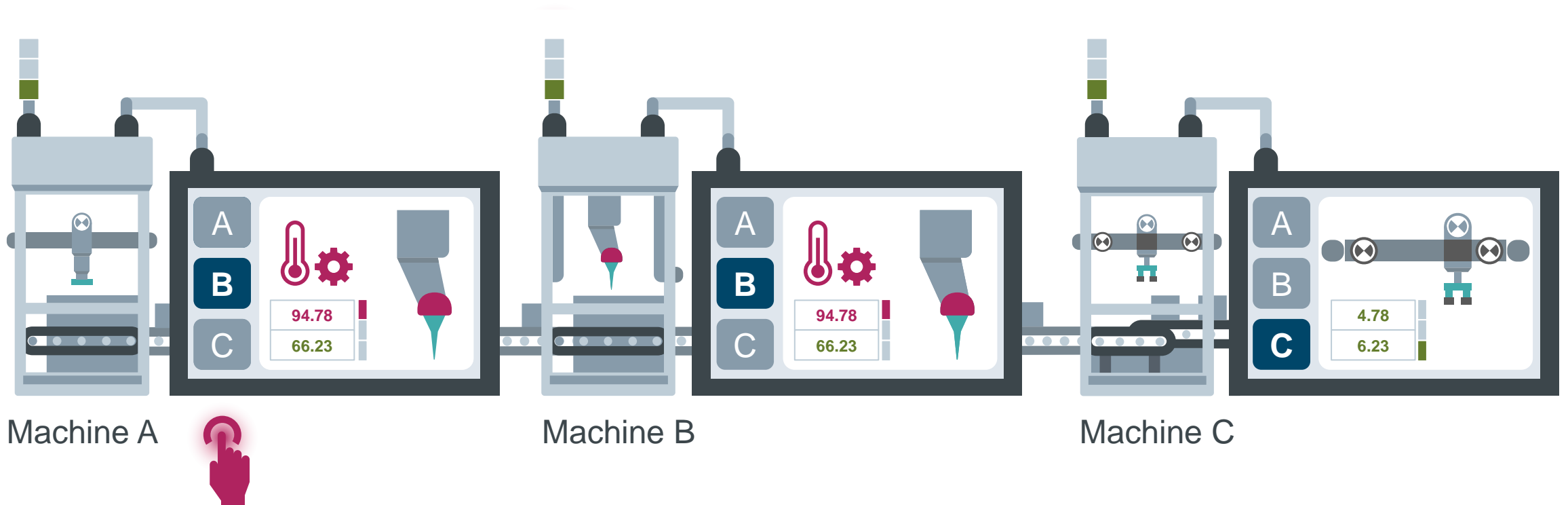
Solution

WinCC Unified Collaboration

Flexible system configurations by sharing screens between WinCC Unified Panel- or PC-based stations.

Collaboration Use Case – Machines in lines

Animated slide



The image features a Siemens SIMATIC WinCC Unified V17 View of Things (TIA Portal) interface overlaid on a SIMATIC S7-1500 PLC hardware unit. The interface includes a 'WinCC Unified project' header, a 'Parameter' section with a gauge showing '30' and 'Setpoint A', and an 'Adjustments' section with two sliders for 'Setpoint A' (value 30) and 'Setpoint B' (value 80). The PLC hardware displays 'SIMATIC S7-1500 All' and 'Overview' information: 'CPU 1515-2 PN', 'X1:192.168.0.1', and 'X2:192.168.1.1'. The background is a light blue gradient with abstract UI elements and a glowing particle effect on the right.

SIMATIC WinCC Unified V17 View of Things (TIA Portal)

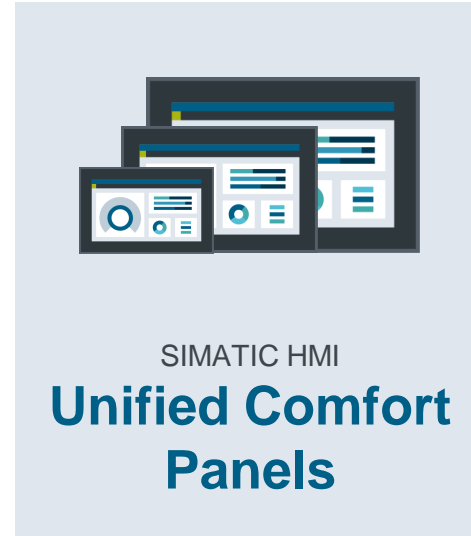
SIMATIC WinCC Unified System Platforms

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The image shows a central grey SIMATIC HMI panel. To its left are two white boxes: the top one contains a bar chart icon and the bottom one contains a '90°' icon. To the right of the panel are two more white boxes: the top one contains a donut chart icon and the bottom one contains a list icon.

SIMATIC WinCC Unified
View of Things



The image shows three overlapping SIMATIC HMI panels of different sizes, each displaying various data visualization elements like charts and lists.

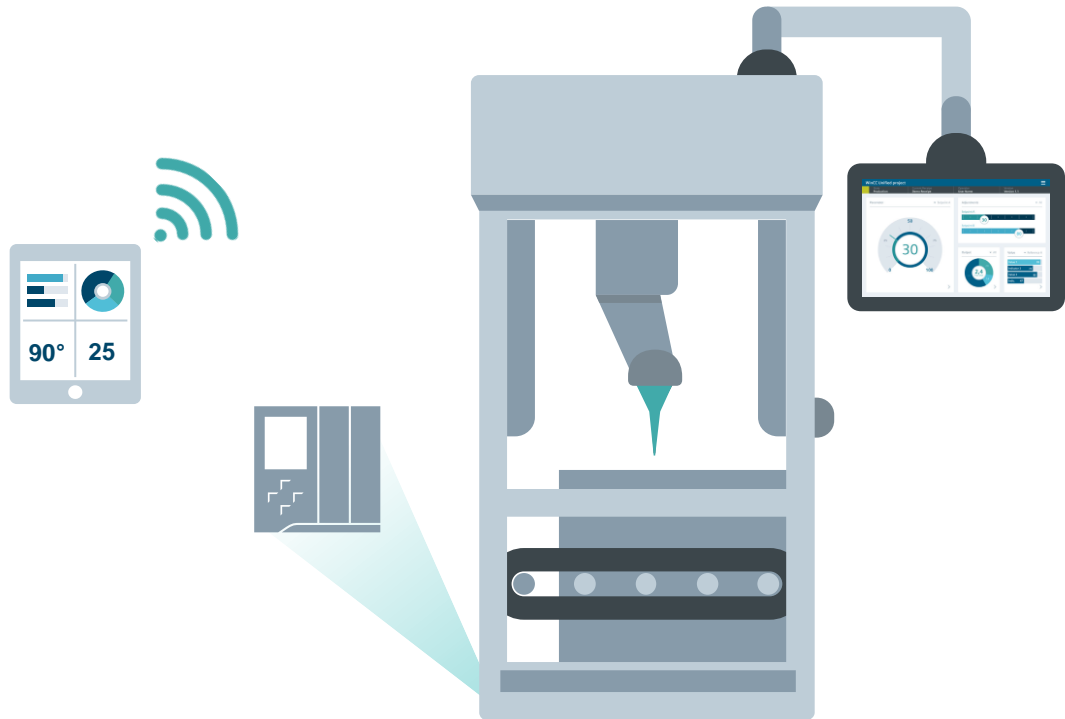
SIMATIC HMI
**Unified Comfort
Panels**



The image shows a desktop computer setup with a monitor displaying a dashboard with a line chart and a server tower to its right.

SIMATIC WinCC Unified
PC

Basic visualization for maintenance and service without the need for programming



HMI Panel

Regular visualization for the operation of the machine by the end user. Includes everything that is required for 24/7 operation (e.g. Alarming and Archiving).

View of Things (VoT)

Allows to implement a basic visualization (e.g. for maintenance and service use cases) that is completely separated from the end user visualization.

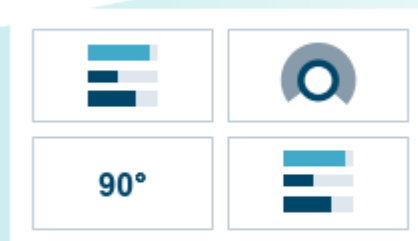
SIMATIC WinCC Unified System – V17

WinCC Unified View of Things (VoT)

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SIMATIC
TIA Portal



WinCC Unified
screen objects
for all systems



Creating web screens easily for PLC (S7-1500 & ET200SP) with SIMATIC WinCC Unified View of Things.



Preconditions

- Software:
TIA Portal V17: STEP 7 Professional
(contains VoT Features)
- PLCs:
All SIMATIC S7-1500 standard systems
(incl. ET200SP CPU, Failsafe, T-CPU)
- Firmware: Min. FW 2.9

Licensing

- WinCC Engineering License is required
 - WinCC Unified ES
(minimal WinCC Unified Comfort ES)
- Runtime License: planned for further enhancements

Performance

- Performance and quantity structure is depending on PLC and client device resources

Unified View of Things

Unified RT (Unified Comfort Panel or Unified PC)

Basis / Screen Elements

- Basic objects” (Line, circle, ...)
- “Elements” (I/O field, button, gauge, ...)
- “Graphics”/“Dyn. widgets” (pictures, icons, svg, ...)
- Using screen windows
- Maximum number of 10 screens
- Maximum number of 100 tags

Data Connection / Dynamics

- Direct tag connection
- Screen change
- System Function (limited set)
- Scripting in screens (basic functionality)

Users

- User management of PLC web server

- Runtime functionality (Alarming, Logging, ...)
- Faceplates
- “Controls” (Alarm-, TrendControl, ...)
- “My controls” (e.g. Custom web control)
- Resource lists (Text & graphic lists), symbolic I/O field
- WinCC Unified options (PaCo, Audit, ...)

- Full / Global scripting
- Full set of system functions

- Screen item access rights
- Local or central user management for WinCC Unified

SIMATIC WinCC Unified View of Things (VoT) Summary and customer value



View of Things follows configuration approach –
no need for programming skills

Comfortable editor with drag & drop functionality for visual
configuration of your screens

View of Things is based on WinCC Unified Technology –
Screens can also be used for Panel & PC visualization

View of Things only requires an Engineering license for
WinCC (TIA Portal)




SIMATIC WinCC Unified System V17

Ordering Information

SIMATIC WinCC Unified V17

License Compatibility Engineering - New Customers

WinCC Unified (TIA Portal) V17		
Engineering System  valid for (V16..V17)	Unified Comfort Panels	Unified PC Runtime
PC (max.)	✓	✓ (max.)
PC (100k)	✓	✓ (100k)
PC (10k)	✓	✓ (10k)
Comfort ¹	✓	✗

WinCC (TIA Portal) V17		
Comfort Panels	WinCC RT Advanced	WinCC RT Professional
✓	✓	✓ (max.)
✓	✓	✓ (max.)
✓	✓	✗
✓	✗	✗



¹ minimum license for WinCC Unified View of Things

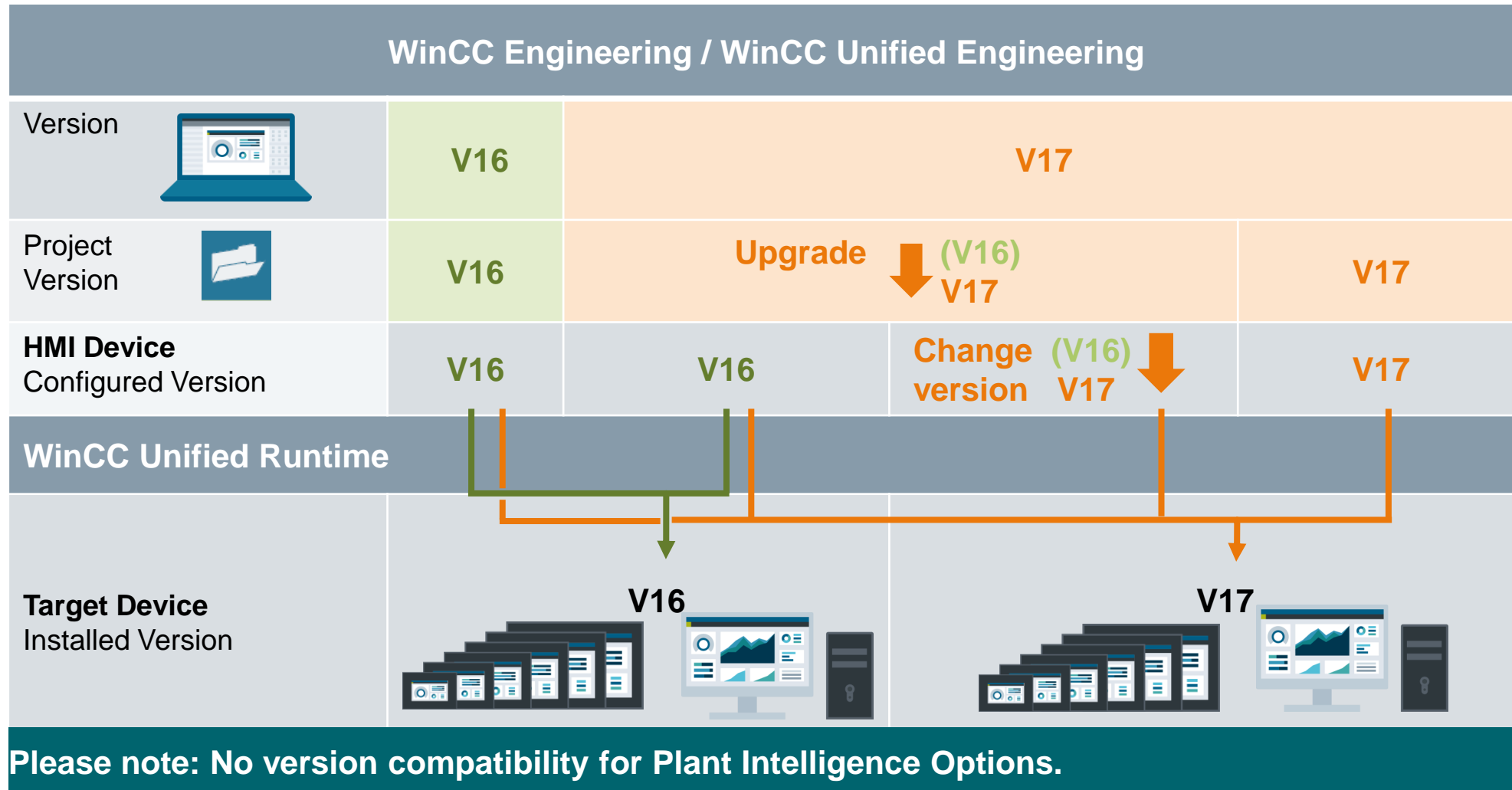
New customers WinCC Unified:

The license of WinCC Unified (TIA Portal) is also valid for engineering using WinCC (TIA Portal).

This applies for versions >= V16.

Note: No parallel installation of WinCC Professional ES and WinCC Unified ES !

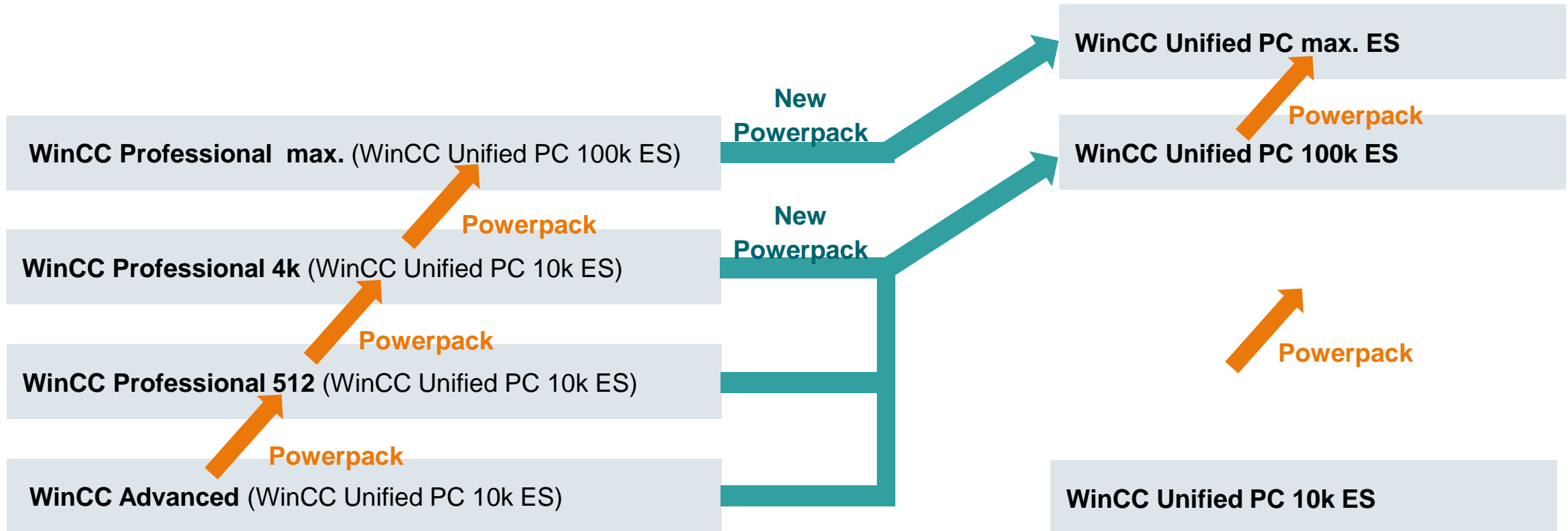
SIMATIC WinCC Unified Version compatibility



SIMATIC WinCC Unified ES Powerpack from Advanced / Professional ^{NEW}

TIA Portal (V11-) V17

TIA Portal (V16-) V17



**It is not necessary to use a PowerPack from Comfort to Unified Comfort as licenses are already compatible !
A SUS contract (if available) must be adapted too via SUS Powerpack.**

SIMATIC WinCC Unified V16... V17 ES Upgrade Advanced / Professional



WinCC Unified Engineering Powerpacks V16...V17 WinCC Advanced/ Professional

Package (DVD)

Online Software Delivery (OSD)

WinCC Advanced /

WinCC Professional 512..4096

ES Powerpack -> WinCC Unified PC 100k (V16..V17)

6AV2153-2GB60-0AB5

6AV2153-0XGB60-0LB5

WinCC Professional Max

ES Powerpack -> WinCC Unified PC max (V16..V17)



6AV2153-0XB60-0AB5

6AV2153-0XB60-0LB5

SIMATIC WinCC Unified V17

Ordering Information - Panel Options



WinCC Unified - Options (Panel)	Package (DVD)	Online Software Delivery (OSD)
WinCC Unified Parameter Control	included	included
WinCC Unified Collaboration 	6AV2154-0BR01-7AB0	6AV2154-0BR01-7LB0
WinCC Unified Client Operate (1) 	6AV2157-1JW00-0AB0	6AV2157-1JW00-0LB0
WinCC Unified – Edge (Panel)	Package (DVD)	Online Software Delivery (OSD)
EDGE Runtime for Unified Comfort (Device-managed)		6AV2170-2BA00-0AA0

The license for WinCC Unified Client Operate and WinCC Unified Collaboration are identical for HMI Unified Comfort Panels and WinCC Unified PC RT. The maximum number of clients can be extended (optional) up to 3 max. Clients.

SIMATIC HMI Unified Comfort Panels – Starter Kits

Hardware Starter-Kit

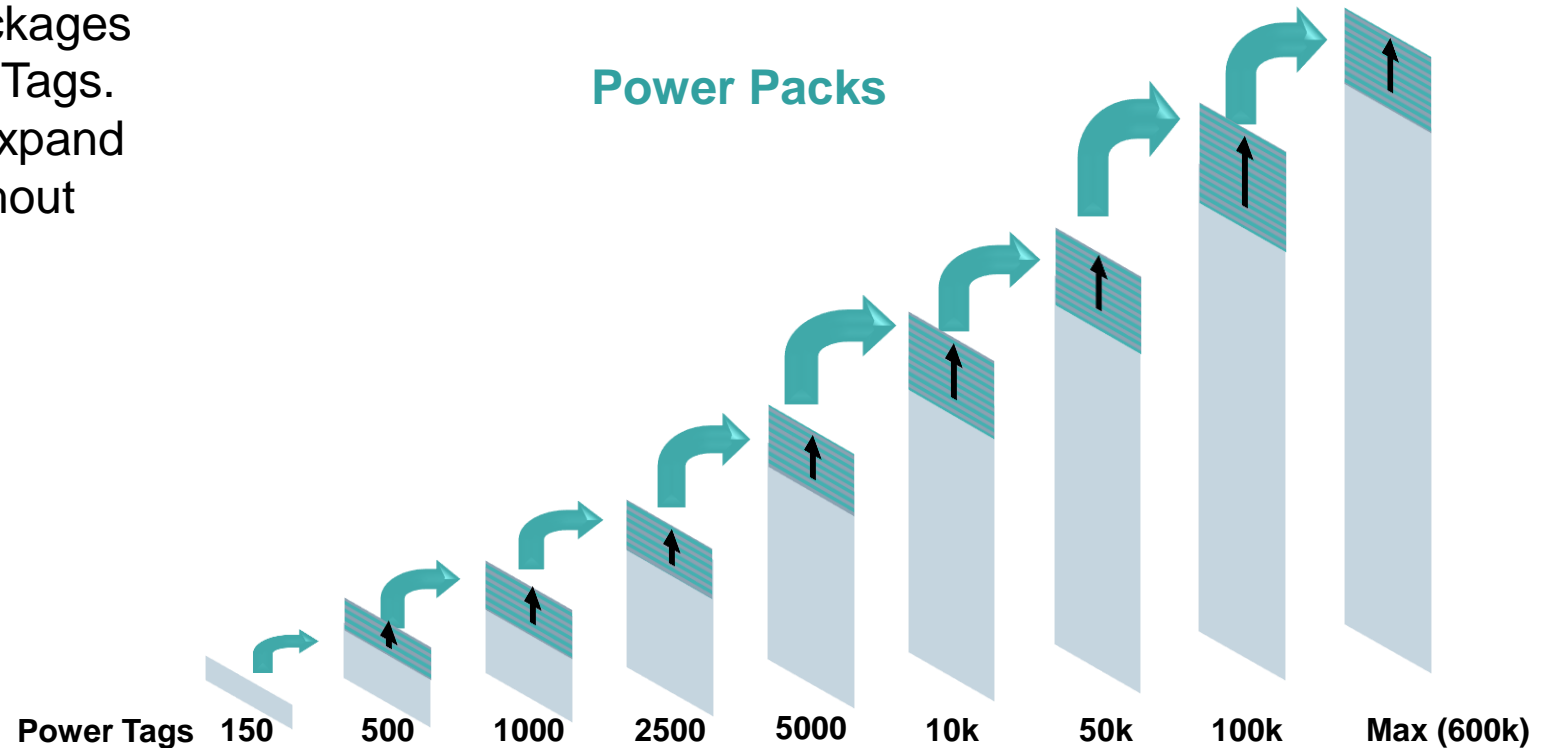
- Device
- WinCC Unified V17 Comfort
- 1,5 m Profinet cable
- Memory Card (32 GB)
- Protective film
- EDGE Runtime for Unified Comfort (Device-managed) license



SIMATIC WinCC Unified V17 - PC Runtime Licensing concept

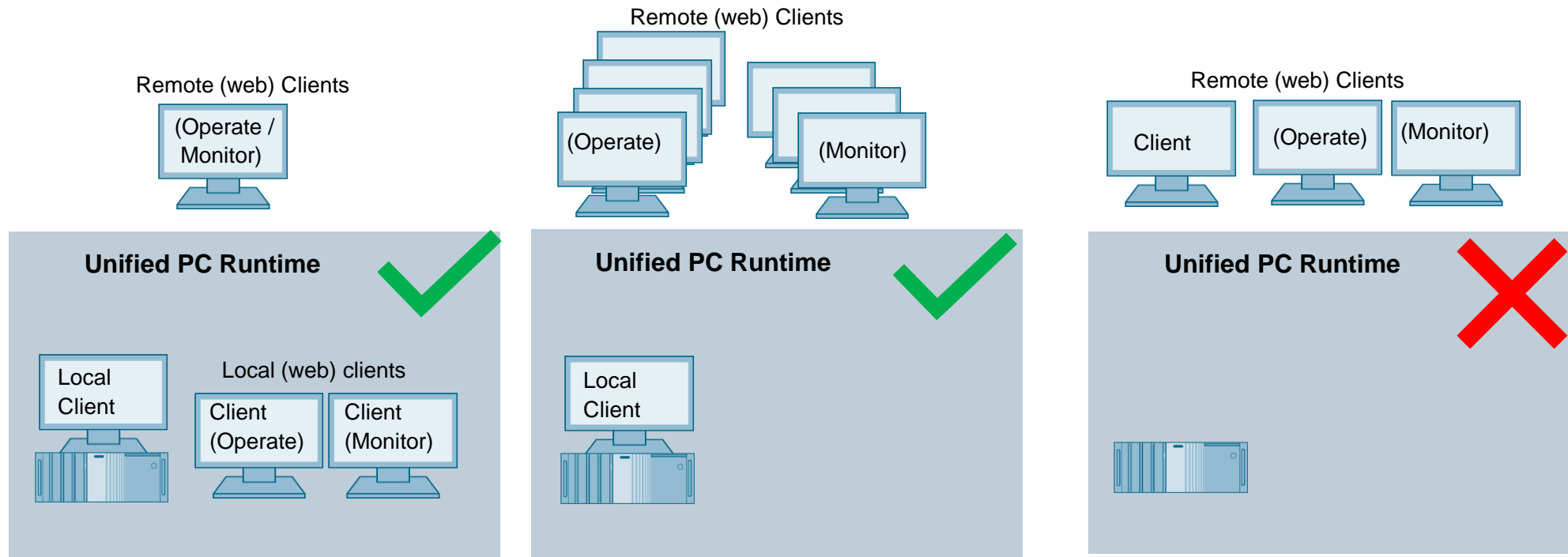
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WinCC Unified offers Base Packages with different number of Power Tags. The PowerPacks are used to expand the number of Power Tags, without effecting the overall price.



**Each WinCC Unified PC Runtime includes 3 Clients –
for locale HMI plus one Operate and one Monitor remote access.
SimaticNET must be licensed separately for more than 5 S7-connections.**

SIMATIC WinCC Unified – Clients (Operate / Monitor) Overview



Additional Clients (Operate or Monitor) can be added (countable license) – please check minimum HW requirements.

**It is not possible to up/downgrade client licenses – Monitor and Operate are independent from each other.
d.h. overall number of Clients Operate = Sum of licenses Operate (same for Monitor)**

SIMATIC WinCC Unified V17 - Options Ordering Information – Clients “Operate”



WinCC Unified Clients ¹	Package(DVD)	Online Software Delivery (OSD)
WinCC Unified Client Operate (1)	6AV2157-1JW00-0AB0	6AV2157-1JW00-0LB0
WinCC Unified Client Operate (3)	6AV2157-3JW00-0AB0	6AV2157-3JW00-0LB0
WinCC Unified Client Operate (10)	6AV2157-2CW00-0AB0	6AV2157-2CW00-0LB0
WinCC Unified Client Operate (30)	6AV2157-6CW00-0AB0	6AV2157-6CW00-0LB0
WinCC Unified Client Operate (100)	6AV2157-2DW00-0AB0	6AV2157-2DW00-0LB0

¹ independent of WinCC Unified version

The maximum number of concurrent Clients (Operate) can be increased (countable) upon demand. The option is available for Unified Comfort Panels and PC-based WinCC Unified systems

SIMATIC WinCC Unified V17 - Options Ordering Information – Clients “Monitor”




WinCC Unified Clients ¹	Package(DVD)	Online Software Delivery (OSD)
WinCC Unified Client Monitor (1)	6AV2157-1JM00-0AB0	6AV2157-1JM00-0LB0
WinCC Unified Client Monitor (3)	6AV2157-3JM00-0AB0	6AV2157-3JM00-0LB0
WinCC Unified Client Monitor (10)	6AV2157-2CM00-0AB0	6AV2157-2CM00-0LB0

¹ independent of WinCC Unified version

**The maximum number of concurrent Clients (Monitor) can be increased (countable) upon demand.
The option is ONLY available Unified PC-based WinCC Unified systems.**


SIMATIC WinCC Unified V17 – Options Ordering Information



WinCC Unified Options (PC)	Package (DVD)	Online Software Delivery (OSD)
WinCC Unified Parameter Control (PC)	6AV2154-0BP01-7AB0	6AV2154-0BP01-7LB0
WinCC Unified Collaboration	6AV2154-0BR01-7AB0	6AV2154-0BR01-7LB0
WinCC Unified Report Execution	6AV2157-0BQ01-7AB0	6AV2157-0BQ01-7LB0
WinCC Audit Basis 	6AV2157-0BL01-7AB0	6AV2157-0BL01-7LB0

WinCC Unified SCADA Options (PC)	Package (DVD)	Online Software Delivery (OSD)
WinCC Unified Database Option	6AV2154-0BS01-6AA0	6AV2154-0BS01-6LA0

The WinCC Unified Collaboration license is identical for HMI Unified Comfort Panels and WinCC Unified PC RT.



Perfect IPCs for SIMATIC WinCC Unified

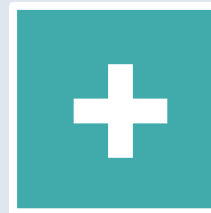
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[siemens.com/wincc-unified-system](https://www.siemens.com/wincc-unified-system)

SIMATIC WinCC Unified Ordering Information - IPC Packages

SIMATIC IPC

Available for almost all SIMATIC IPCs that meet the technical requirements of SIMATIC WinCC Unified PC



SIMATIC WinCC Unified PC

WinCC Unified PC Runtime License
+ Parameter Control
+ Logging Tags
(number depends on the RT license)

- Price discount only with concurrent order of IPC and WinCC Unified software
- Please note the technical requirements of WinCC Unified when selecting the configuration
- Further information regarding the packages can be found in SIOS (99860269)
<https://support.industry.siemens.com/cs/de/en/view/99860269>

SIMATIC WinCC Unified Ordering Information - IPC Packages



Package	Options included	Order Number
WinCC Unified V17 PC RT 150 Package	WinCC Unified Logging Tags (100) Parameter Control	6AV2155-3DB01-7AA0
WinCC Unified V17 PC RT 500 Package	WinCC Unified Logging Tags (200) Parameter Control	6AV2155-1EB01-7AA0
WinCC Unified V17 PC RT 1k Package	WinCC Unified Logging Tags (500) Parameter Control	6AV2155-2EB01-7AA0
WinCC Unified V17 PC RT 2.5k Package	WinCC Unified Logging Tags (500) Parameter Control	6AV2155-2MB01-7AA0
WinCC Unified V17 PC RT 5k Package	WinCC Unified Logging Tags (1000) Parameter Control	6AV2155-1FB01-7AA0
WinCC Unified V17 PC RT 10k Package	WinCC Unified Logging Tags (1000) Parameter Control	6AV2155-2FB01-7AA0
WinCC Unified V17 PC RT 50k Package ¹	WinCC Unified Logging Tags (1000) Parameter Control	6AV2155-1GB01-7AA0

¹ **Cannot** be ordered with IPC127E, IPC227E, IPC277E, IPC327E and IPC377E

| Contacto

Published by Siemens S.A.

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