SIMATIC
WinCC Unified System
Human Machine Interface is changing…

Increase of production data
The amount of data generated annually will increase by five times until 2025. (175 Zettabyte)

Increasing number of devices and systems to connect
Gartner IT forecasts that the number of IoT devices will reach 25 billion by 2021

Upcoming user interaction scenarios
Expected sales of virtual reality equipment by 2022: 26.7 million devices (0.8 million in 2018)
If you want to master this change you have to deal with...

Web Technology
- Scalability
- Manufacturing IT
- Collaboration
- Object orientation

SVG
- Device independency

On Premise
- Engineering Automation
- One Engineering
- Data Backbone
- HTML5

Digitalization
- Cloud Connectivity

These topics define the requirements for the HMI systems of the next decade.
We meet these requirements with the new WinCC Unified system!

**Technology**
- Native Web Technology HTML5, SVG, JavaScript
- Device independent
- Object oriented – HMI

**Scalability**
- One Engineering
- Unified Comfort Panels
- WinCC Unified PC
- Collaboration

**WinCC Unified in TIA Portal**

**Everywhere**
- On Premise
- Unified @Cloud
- Unified @Edge
- MindSphere Apps

**Integration**
- Basis for Digitalization
- Plant Intelligence
- Integration Platform for everything north of the PLC
- Openness
SIMATIC WinCC Unified System V16 – Overview

Platform
Unified Comfort Panels, PC

Common engineering for all platforms

Software
SIMATIC WinCC Unified in TIA Portal V16
**SIMATIC HMI Unified Comfort Panels**  
**Seeing what matters- in a brilliant way**

**New generation High-End Operator Panels from 7 to 22 Inch**

<table>
<thead>
<tr>
<th>Feature / Function</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Durable glass front with capacitive multitouch technology</td>
<td>• Maximum usability through enhanced legibility and brilliant colors</td>
</tr>
<tr>
<td>• Expand the standard functionality with apps</td>
<td>• Implement project-specific requirements easily</td>
</tr>
<tr>
<td>• Significantly increased hardware performance and system limits</td>
<td>• Implement applications with a larger quantity structure</td>
</tr>
<tr>
<td>• Protected operating system and encrypted communication technologies</td>
<td>• High level of IT security to protect the system against cyber attacks</td>
</tr>
<tr>
<td>• Visualization powered by SIMATIC WinCC Unified</td>
<td>• Latest technology for today’s and tomorrow’s requirements to HMI systems</td>
</tr>
</tbody>
</table>
SIMATIC WinCC Unified – One common HMI platform

**Faceplates**
Use the same faceplates for Panel- and PC Systems.

**Screen structure**
Consistent structuring of screens with picture windows.

**Controls**
Common UI Controls for Panels an PC to ensure the best Usability.
SIMATIC WinCC Unified PC – Highlights

- **Scalability from panel to control center**
  One common software platform for all devices

- **Modern User Interface based on web technologies**
  Flexible access with any modern web browser

- **Advanced scripting based on JavaScript**
  Powerful and platform independent scripting language

- **Automate engineering tasks with TIA Portal Openness**
  Create, validate and reuse WinCC Unified components automatically

- **Technological hierarchy for object oriented engineering**
  Define plant assets once and reuse them by instances

- **Calendar and Performance Insight Option**
  Manage working times and get production insights based on individual KPI calculation

- **Easy collaboration of WinCC Unified systems**
  Setup of distributed configurations. Predefined as well as on the fly access

- **Use WinCC Unified as Integration Platform**
  Integrate IT-Tools into one user interface and exchange data via interfaces
Scalable from Panel to SCADA solution
Seamless functionality and usability
## WinCC Unified V16
### Core functionality

<table>
<thead>
<tr>
<th>Core functionality</th>
<th>Description</th>
<th>Unified Comfort Panels</th>
<th>Unified PC Runtime</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Interface</td>
<td>Scalable for all devices</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Connectivity</td>
<td>Connecting automation and IT via standard interfaces</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Alarming</td>
<td>Know what’s happening at your facility</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Reporting</td>
<td>Reporting functionality (based on Microsoft Excel)</td>
<td>☒</td>
<td>✔</td>
</tr>
<tr>
<td>Scripting</td>
<td>Extensive scripting possibilities for Runtime</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Openness Engineering</td>
<td>Shorten Time to Market using automated engineering</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Openness Runtime</td>
<td>Expand runtime functionality and serve as integration platform</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Technological Hierarchy</td>
<td>Modular and standardized machine and plant concepts</td>
<td>☒</td>
<td>✔</td>
</tr>
<tr>
<td>User Administration</td>
<td>Local user management and access control</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

1 Automated reports optional

Available ✔  Available (limited) ☒  In work ❌  Not available ✗
WinCC Unified – Modern User Interface

A great experience. No matter where you are!

Based on Web Technologies
Like HTML5, SVG and JavaScript. Lightweight user interface with all the possibilities you’re used to.

Access from Everywhere
With any modern web browser. No need for installing extra plugins – Also on mobile devices.

Customize and Animate
Use Dynamic SVGs or Custom Web Controls to make your HMI stand out.
WinCC Unified – Scripting –
Advanced scripting with the power of JavaScript

export function Function (parameter1, parameter2){
    let tag1 = Tags('MyTag1');
tag1.Write(123);

    let tag2 = Tags('MyTag2');
tag1.Write(123);

    if (tag1 > tag2) {
        UI.RootWin.HMIrstrip();
    } else {
        HMIrstrip();
    }
}

JavaScript is a widely spread and easy to learn scripting language

- One scripting language for all platforms (Panel and PC Systems)
- Use the entire object oriented JavaScript scope for handling data, objects, classes, inheritance
- Predefined Code Snippets for common tasks available in TIA Portal
- Integrated debugging functionality
- Local scripts for e.g., screen dynamics, events and scheduled tasks. Support of global script functions
- Direct access to WinCC Unified JavaScript object model e.g., access to file-system or databases
WinCC Unified V16
Access from Everywhere

<table>
<thead>
<tr>
<th>Operating System (Client)</th>
<th>Recommended Browser</th>
</tr>
</thead>
</table>
| Microsoft Windows        | • Google Chrome (Test focus)  
                          | • Mozilla Firefox,  
                          | • Microsoft Edge |
| Android                  | • Google Chrome (Test focus)  
                          | • Firefox  
                          | • Edge |
| iOS, Mac                 | • Safari (Test focus)  
                          | • Google Chrome  
                          | • Firefox  
                          | • Edge |
WinCC Unified V16 – User Interface
Customize and Animate

Scalable Vector Graphics (SVG) for all resolutions without loss of quality
- Animate (dynamic) SVG files according to the process state
- Ready to use industry library with static and dynamic SVGs
<table>
<thead>
<tr>
<th>Unified Comfort Panels</th>
<th>Unified PC Runtime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Window</td>
<td>✔</td>
</tr>
<tr>
<td>Faceplate Container</td>
<td>✔</td>
</tr>
<tr>
<td>Web Control</td>
<td>✔</td>
</tr>
<tr>
<td>Alarm Control</td>
<td>✔</td>
</tr>
<tr>
<td>Trend Control</td>
<td>✔</td>
</tr>
<tr>
<td>Process Control</td>
<td>✗</td>
</tr>
<tr>
<td>Trend Companion</td>
<td>✔</td>
</tr>
<tr>
<td>Function Trend Control</td>
<td>✗</td>
</tr>
<tr>
<td>Media Player</td>
<td>✔</td>
</tr>
</tbody>
</table>

Available ✔ In work ✗
WinCC Unified – TIA Portal Openness

Higher engineering quality in less time

Configurator
Build your machine configurator with a .net programming language and build a UI that fits your needs.

TIA Portal
Get access to existing assets or create them automatically from scratch via the Openness API.

Projects
Create individual project configurations within seconds. Reduce risk and save time.

Engineering automation is the power booster for your workflow
WinCC Unified as integration platform – Connect and integrate 3rd party tools

Different departments use different software systems.

Digitalization requires seamless data flow.

Open interfaces are required for all systems.
WinCC Unified – Integration platform – Connect and integrate 3rd party tools

Client

User Interface

Custom Web Control

Server

WinCC Unified Runtime

Open Pipe

ODK

3rd Party Tools

Cloud Services

On Premise
WinCC Unified – Integration platform – Examples

Open Pipe Data Interface
Server sided data interface for online tags and alarms.
Independent from programming language. Can be used to connect several software tools to WinCC Unified.

Runtime Openness Data Interface
Server sided data interface for online and historical tags and alarms with .net or C++ programming.
Exchange huge amounts of data with Databases or IT systems.

Custom Web Control Container for Web Content
Add custom UI controls (e.g. 3D Viewer) or visualize and exchange data of 3rd party services (e.g. weather data). Can be used to get access to sensors of mobile clients (e.g. camera, GPS).
## ODK vs. OpenPIPE

### What are the differences?

<table>
<thead>
<tr>
<th>Open Developer Kit (ODK)</th>
<th>Type</th>
<th>Lightweight interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extensive runtime object model</td>
<td>Large quantities</td>
<td>Data quantity</td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>Data throughput</td>
</tr>
<tr>
<td></td>
<td>C# / C++</td>
<td>Programming languages</td>
</tr>
<tr>
<td>Online and Logging Tags, Archives, Alarms, Users, Technological Hierarchy plant objects</td>
<td>Read/Write access to data of WinCC Unified data</td>
<td>Online Tags, Alarms (read only)</td>
</tr>
</tbody>
</table>
WinCC Unified – Technological Hierarchy – Define plant assets once and reuse them by instances

Object oriented engineering approach
Create a technological structure of your plant and build plant assets based on objects that can be updated centrally.

Hierarchically structured operation
Use the technological hierarchy to navigate through all of your plant assets. Get a quick overview of system status based on a hierarchical alarm structure.
## WinCC Unified V16
### Basic Options

<table>
<thead>
<tr>
<th>Basic Options</th>
<th>Description</th>
<th>Unified Comfort Panels</th>
<th>Unified PC Runtime</th>
</tr>
</thead>
<tbody>
<tr>
<td>File-based Logging</td>
<td>Local data logging for small to medium applications (Logging Tags included)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Parameter Control</td>
<td>Consistent handling and operation of machine or production parameters (included)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Collaboration</td>
<td>Establish distributed configurations</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Clients</td>
<td>Flexible web-based, remote Monitoring and Operation</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Audit</td>
<td>Documentation and validation according to legal requirements e.g., 21 CFR Part 11</td>
<td>✓</td>
<td>X</td>
</tr>
</tbody>
</table>

Available: ✓  Available (limited): ✓  In work: X  Not available: X
# WinCC Unified V16

## SCADA Options

<table>
<thead>
<tr>
<th>SCADA Options</th>
<th>Description</th>
<th>Unified Comfort Panels</th>
<th>Unified PC Runtime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database Option</td>
<td>Performant, large-scale and long-term managed logging</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Redundancy</td>
<td>Increased availability</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Central Logging</td>
<td>Central long-term database logging</td>
<td>✗</td>
<td>✗</td>
</tr>
</tbody>
</table>

Available ✓  Available (limited) ✗  In work ✗  Not available ✗
## WinCC Unified V16
### Plant Intelligence Options

<table>
<thead>
<tr>
<th>Plant Intelligence Options</th>
<th>Description</th>
<th>Unified Comfort Panels</th>
<th>Unified PC Runtime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calendar</td>
<td>Calendar-based administration of events and schedules</td>
<td>X</td>
<td>✓</td>
</tr>
<tr>
<td>Performance Insight</td>
<td>Visualization and analysis of asset performance with KPIs and time/state model</td>
<td>X</td>
<td>✓</td>
</tr>
<tr>
<td>Sequence Execution</td>
<td>Flexible arrangement of automatic steps within the production process including manual interaction</td>
<td>X</td>
<td>✗</td>
</tr>
<tr>
<td>Line Coordination</td>
<td>Coordination and synchronization of machines/units via recipe-controlled procedures</td>
<td>X</td>
<td>✓</td>
</tr>
</tbody>
</table>

- **Available**
- **Available (limited)**
- **In work**
- **Not available**

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SIMATIC WinCC Unified System
WinCC Unified – Reporting
Flexible reporting based on Office tools

Create **fully customized report templates**
with a tool you already know – Microsoft Excel\(^1\)

**On Demand Generation** – Trigger a report
manually whenever you need it

**Automated generation** – Time-scheduled or event-triggered **reports** – **fully automatic** (optional)

---

1 Please note the system requirements

---

**Flexible assignment and planning** of report execution at runtime.
Consistent documentation of production data for all levels of production (product or quality report)
SIMATIC WinCC Unified – Plant Intelligence - Calendar & Performance Insight

Standardized **Time model** as basis for Calendar and Performance Insight

**Calendar**
Schedule activities for the production

**Performance Insight**
Improving performance by calculating individual KPIs
Plan your production shifts

Schedule activities for the production

- Based on the technological hierarchy
- Define working time of machines and systems
- Create standard templates for regular production days and shifts.
- Planning the execution of activities relative to a timeline, for example, machine - start 30 minutes before early shift (ramp-up time)
WinCC Unified V16 – Plant Intelligence options

Calendar

Unified Comfort Panel  ✗  PC ✓

User interface in the screen
Plant View Control using the Calendar Control

Scheduling of shifts
for machines, plants and lines in the technological hierarchy

Management of working time and tasks
based on templates

Planning the production process and events
in relation to operating times, e.g. definition of shifts

Reduced engineering effort
through modular and standardized object-oriented concepts
Get value out of your data

**Production insights based on individual KPI calculations**

- Global definition of KPI formulas according to ISO22400
- Object oriented KPI engineering based on technological hierarchy
- Comprehensive set of WinCC controls for the display of KPIs
- Downtime analysis
- Calculation of the performance of machines / lines / plants according to context (e.g. shift, order, etc.)
- Creating an Excel-based report
WinCC Unified V16 – Performance Insight Controls

Display of KPIs and operands and their analysis as bar or pie chart e.g.
- production operand
- piece counter "good parts"
- KPI (quality)

Combined/multiline display of machine status with duration and frequency analysis e.g. Downtime analysis of machines
WinCC Unified – Collaboration – Making collaboration more flexible

Exchange process data between WinCC Unified systems

- Every machine can provide different types of data to other WinCC Unified systems
- Share screens, tags, archives and alarms
- Access to data of other Unified platforms during Runtime

Combine production data from several machines for supervision

- Setup of distributed configurations for lines and plants
- Increases the flexibility and simplifies the connection of different machines to one unified system
- Connect systems while commissioning or later
Functional overview

- Native Web Client
- SVG graphics (static and dynamic)
- Controls with significantly increased functionality
- File-based Archiving or Database logging
- Picture window technology
- Advanced Scripting
- Dynamization of objects
- Open Pipe and ODK (Open Development Kit)
- Custom Web Controls
- Technological Hierarchy
- Collaboration (1st step - screens)
- Calendar Option
- Performance Insight Option
- Line Coordination System (LCS)

- 3rd Party Communication
- Profibus Communication
- Native Client
- Audit/GMP
- RFID Authentication
- Two-hand operation & Multitouch
- Multi-monitor
- Central User Management
- System diagnosis control
- Redundancy
- OPC UA HA/AC (Client)
- Monitoring Client (License)
- Central database archiving
- Central reporting server
- Collaboration (2nd step – tags, archives)
- Sequence Execution System (SES)
- And more …
## SIMATIC WinCC Unified System – Application Examples

<table>
<thead>
<tr>
<th>Type</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TIA Portal Add-In</td>
<td>SIOS Download</td>
</tr>
<tr>
<td>Data 2 Unified</td>
<td></td>
</tr>
<tr>
<td>WinCC Unified Tag Simulator</td>
<td>SIOS Download</td>
</tr>
<tr>
<td>WinCC Unified Demo projects</td>
<td>SIOS Download</td>
</tr>
<tr>
<td>TIA Portal Library</td>
<td>SIOS Download</td>
</tr>
<tr>
<td>HMI Template Suite</td>
<td></td>
</tr>
<tr>
<td>Getting Started</td>
<td>Soon</td>
</tr>
<tr>
<td>Edge @ Unified Comfort Panel</td>
<td></td>
</tr>
<tr>
<td>From Comfort to Unified Comfort</td>
<td>Soon</td>
</tr>
<tr>
<td>Guideline</td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>Course Name</td>
</tr>
<tr>
<td>-------</td>
<td>-------------------------------------------------</td>
</tr>
<tr>
<td>Basic</td>
<td>SIMATIC WinCC Unified &amp; Unified Comfort Panels</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advanced SIMATIC WinCC Unified Scripting (JavaScript)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced</td>
<td>SIMATIC WinCC Unified for PC systems</td>
</tr>
</tbody>
</table>

www.siemens.com/SITRAIN
WinCC Unified Community – Join us now for free!

Learn everything you need to get started with the WinCC Unified System

Discuss with other WinCC Unified users or prospects online

More than 90 minutes of videos in short on-demand clips

Join us now for free on siemens.se/wincc-unfied
Ordering Information
## SIMATIC WinCC Unified V16
License Compatibility Engineering - Existing customers

<table>
<thead>
<tr>
<th>WinCC (TIA Portal) V16</th>
<th>WinCC Unified (TIA Portal) V16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering System valid for…</td>
<td>Unified Comfort Panels</td>
</tr>
<tr>
<td>WinCC Prof. (max)</td>
<td>✓</td>
</tr>
<tr>
<td>WinCC Prof. (4k)</td>
<td>✓</td>
</tr>
<tr>
<td>WinCC Prof. (512)</td>
<td>✓</td>
</tr>
<tr>
<td>WinCC Advanced</td>
<td>✓</td>
</tr>
<tr>
<td>WinCC Comfort</td>
<td>✓</td>
</tr>
</tbody>
</table>

**Existing customers with WinCC (TIA Portal):**

The license of WinCC (TIA Portal) is also valid for engineering using WinCC Unified (TIA Portal).
### SIMATIC WinCC Unified V16 Engineering – Ordering information

<table>
<thead>
<tr>
<th>WinCC Unified Engineering</th>
<th>Package (DVD)</th>
<th>Online Software Delivery (OSD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WinCC Unified Comfort ES</td>
<td>6AV2151-0XB01-6AA5</td>
<td>6AV2151-0XB01-6LA5</td>
</tr>
<tr>
<td>WinCC Unified PC (10k) ES</td>
<td>6AV2153-2FB01-6AA5</td>
<td>6AV2153-2FB01-6LA5</td>
</tr>
<tr>
<td>WinCC Unified PC (100k) ES</td>
<td>6AV2153-2GB01-6AA5</td>
<td>6AV2153-2GB01-6LA5</td>
</tr>
<tr>
<td>WinCC Unified PC (Max) ES</td>
<td>6AV2153-0XB01-6AA5</td>
<td>6AV2153-0XB01-6LA5</td>
</tr>
<tr>
<td>WinCC Unified PC (1k) ES Trial</td>
<td>6AV2153-2EB01-6AA7</td>
<td>Download via SIOS</td>
</tr>
</tbody>
</table>

The complete list for WinCC Unified (Engineering and Runtime) can be found in the product announcement here [https://support.industry.siemens.com/cs/ww/en/view/109771724](https://support.industry.siemens.com/cs/ww/en/view/109771724)
WinCC Unified offers Base Packages with different number of Power Tags. The Power Packs are used to expand the number of Power Tags, without effecting the overall price.
### Ordering Information - PC Runtime

<table>
<thead>
<tr>
<th>WinCC Unified PC RT System Base Packages</th>
<th>Package (DVD)</th>
<th>Online Software Delivery (OSD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WinCC Unified PC (150) RT</td>
<td>6AV2154-3DB01-6AA0</td>
<td>6AV2154-3DB01-6LA0</td>
</tr>
<tr>
<td>WinCC Unified PC (500) RT</td>
<td>6AV2154-1EB01-6AA0</td>
<td>6AV2154-1EB01-6LA0</td>
</tr>
<tr>
<td>WinCC Unified PC (1k) RT</td>
<td>6AV2154-2EB01-6AA0</td>
<td>6AV2154-2EB01-6LA0</td>
</tr>
<tr>
<td>WinCC Unified PC (2.5k) RT</td>
<td>6AV2154-2MB01-6AA0</td>
<td>6AV2154-2MB01-6LA0</td>
</tr>
<tr>
<td>WinCC Unified PC (5k) RT</td>
<td>6AV2154-1FB01-6AA0</td>
<td>6AV2154-1FB01-6LA0</td>
</tr>
<tr>
<td>WinCC Unified PC (10k) RT</td>
<td>6AV2154-2FB01-6AA0</td>
<td>6AV2154-2FB01-6LA0</td>
</tr>
<tr>
<td>WinCC Unified PC (50k) RT</td>
<td>6AV2154-1GB01-6AA0</td>
<td>6AV2154-1GB01-6LA0</td>
</tr>
<tr>
<td>WinCC Unified PC (100k) RT</td>
<td>6AV2154-2GB01-6AA0</td>
<td>6AV2154-2GB01-6LA0</td>
</tr>
<tr>
<td>WinCC Unified Max RT (max.)</td>
<td>6AV2154-0XB01-6AA0</td>
<td>6AV2154-0XB01-6LA0</td>
</tr>
</tbody>
</table>
SIMATIC WinCC Unified – Logging Tags

Licensing concept – “file-based”

Unified Comfort Panels
- File-based Logging up to 5,000 Logging Tags (included)

Unified PC Systems
- File-based Logging up to 5,000 Logging Tags
- Licenses for Logging Tags: 100; 500; 1,000; 5,000 (countable)

Possibility to change to Databased Logging for growing requirements
SIMATIC WinCC Unified – Logging Tags

Licensing concept

- **Filebased Logging**
- **Databased (PC systems)**

**Unified PC Systems**

Configure the logging system according to your requirements:
- Databased Logging (optional), scalable up to the maximum number of Power Tags
- Licenses for Logging Tags: 100; 500; 1,000; 5,000 (countable)
# SIMATIC WinCC Unified V16 - PC Options

## Ordering Information – Logging Tags

<table>
<thead>
<tr>
<th>WinCC Unified Logging¹</th>
<th>Package (DVD)</th>
<th>Online Software Delivery (OSD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WinCC Unified Logging Tags (100)</td>
<td>6AV2157-2DA00-0AB0</td>
<td>6AV2157-2DA00-0LB0</td>
</tr>
<tr>
<td>WinCC Unified Logging Tags (500)</td>
<td>6AV2157-1EA00-0AB0</td>
<td>6AV2157-1EA00-0LB0</td>
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<tr>
<td>WinCC Unified Logging Tags (1000)</td>
<td>6AV2157-2EA00-0AB0</td>
<td>6AV2157-2EA00-0LB0</td>
</tr>
<tr>
<td>WinCC Unified Logging Tags (5000)</td>
<td>6AV2157-1FA00-0AB0</td>
<td>6AV2157-1FA00-0LB0</td>
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<tr>
<td>WinCC Unified Logging Tags (10.000)</td>
<td>6AV2157-2FA00-0AB0</td>
<td>6AV2157-2FA00-0LB0</td>
</tr>
<tr>
<td>WinCC Unified Logging Tags (30.000)</td>
<td>6AV2157-6FA00-0AB0</td>
<td>6AV2157-2FA00-0LB0</td>
</tr>
</tbody>
</table>

¹ independent of WinCC Unified version

The total number of Logging Tags can be increased (countable) upon demand. Logging Tags are valid for file-based and databased (Database Option) logging.
SIMATIC WinCC Unified – Clients
License concept

Unified PC Systems – Configure client access according to your requirements

- Two Clients are included at every WinCC Unified Runtime (one of them is normally used for local visualization)
- Flexible remote access for any number of users (concurrent access)
- Grow on demand increase number of Clients by 1, 3, 10, 30, 100 (countable)

Client licenses are pooled at the WinCC PC Runtime station
### SIMATIC WinCC Unified V16 - PC Options
#### Ordering Information - Clients

<table>
<thead>
<tr>
<th>WinCC Unified Clients¹</th>
<th>Package (DVD)</th>
<th>Online Software Delivery (OSD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WinCC Unified Client Operate (1)</td>
<td>6AV2157-1JW00-0AB0</td>
<td>6AV2157-1JW00-0LB0</td>
</tr>
<tr>
<td>WinCC Unified Client Operate (3)</td>
<td>6AV2157-3JW00-0AB0</td>
<td>6AV2157-3JW00-0LB0</td>
</tr>
<tr>
<td>WinCC Unified Client Operate (10)</td>
<td>6AV2157-2CW00-0AB0</td>
<td>6AV2157-2CW00-0LB0</td>
</tr>
<tr>
<td>WinCC Unified Client Operate (30)</td>
<td>6AV2157-6CW00-0AB0</td>
<td>6AV2157-6CW00-0LB0</td>
</tr>
<tr>
<td>WinCC Unified Client Operate (100)</td>
<td>6AV2157-2DW00-0AB0</td>
<td>6AV2157-2DW00-0LB0</td>
</tr>
</tbody>
</table>

¹ independent of WinCC Unified version

The maximum number of concurrent Clients can be increased (countable) upon demand.
# SIMATIC WinCC Unified V16 – PC Options
## Ordering Information

<table>
<thead>
<tr>
<th>WinCC Unified SCADA Options (PC)</th>
<th>Package (DVD)</th>
<th>Online Software Delivery (OSD)</th>
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</thead>
<tbody>
<tr>
<td>WinCC Unified Database Option</td>
<td>6AV2154-0BS01-6AA0</td>
<td>6AV2154-0BS01-6LA0</td>
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</table>

<table>
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<tr>
<th>WinCC Unified Options (PC)</th>
<th>Package (DVD)</th>
<th>Online Software Delivery (OSD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WinCC Unified Parameter Control (PC)</td>
<td>6AV2157-0BP01-6AB0</td>
<td>6AV2157-0BP01-6LB0</td>
</tr>
<tr>
<td>WinCC Unified Collaboration (PC)</td>
<td>6AV2157-0BR01-6AB0</td>
<td>6AV2157-0BR01-6LB0</td>
</tr>
<tr>
<td>WinCC Unified Report Execution</td>
<td>6AV2157-0BQ01-6AB0</td>
<td>6AV2157-0BQ01-6LB0</td>
</tr>
</tbody>
</table>
# SIMATIC WinCC Unified – Promotion Packages

**WinCC Unified PC (1k) RT**
- WinCC Unified PC (1k) RT
- Parameter Control (PC)
- Logging Tags (100)
- Report Execution

6AV2155-2ES01-6AL0

**WinCC Unified PC (10k) RT**
- WinCC Unified PC (10k) RT
- Parameter Control (PC)
- Logging Tags (1000)
- Report Execution

6AV2155-2FS01-6AL0

**WinCC Unified PC (50k) RT**
- WinCC Unified PC (50k) RT
- Parameter Control (PC)
- Logging Tags (1000)
- Report Execution
- Database Option
- Client Operate (1)

6AV2155-1GS01-6AL0

Packages only available via Online Software Delivery (OSD)

~ 30% discount

Available until 31/12/2020
WinCC Unified Plant Intelligence Optionen

- Calendar Option (Basis)
- Performance Insight Option (Basis)
- Logging Tags (100)

Packages only available via Online Software Delivery (OSD)

~ 30% discount

6AV2155-0XP01-6AL0

Available until 31/12/2020
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

→ 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 (as soon as available:)
   https://support.industry.siemens.com/cs/de/en/view/99860269
Functional overview

WinCC Unified PC 16

V16

- Native Web Client
- SVG graphics (static and dynamic)
- Controls with significantly increased functionality
- File-based Archiving or Database logging
- Picture window technology
- Advanced Scripting
- Dynamization of objects
- Open Pipe and ODK (Open Development Kit)
- Custom Web Controls
- Technological Hierarchy
- Collaboration (1st step - screens)
- Calendar Option
- Performance Insight Option
- Line Coordination System (LCS)

> V16

- 3rd Party Communication
- Profibus Communication
- Native Client
- Audit/GMP
- RFID Authentication
- Two-hand operation & Multitouch
- Multi-monitor
- Central User Management
- System diagnosis control
- Redundancy
- OPC UA HA/AC (Client)
- Monitoring Client (License)
- Central database archiving
- Central reporting server
- Collaboration (2nd step – tags, archives)
- Sequence Execution System (SES)
- And more …
No replacement of current portfolio for the moment. WinCC Unified V16 running in parallel for now. In the long term, the HMI & SCADA portfolio in TIA Portal will consistently be based on WinCC Unified.
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Malmö

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siemens.se/wincc-unified