

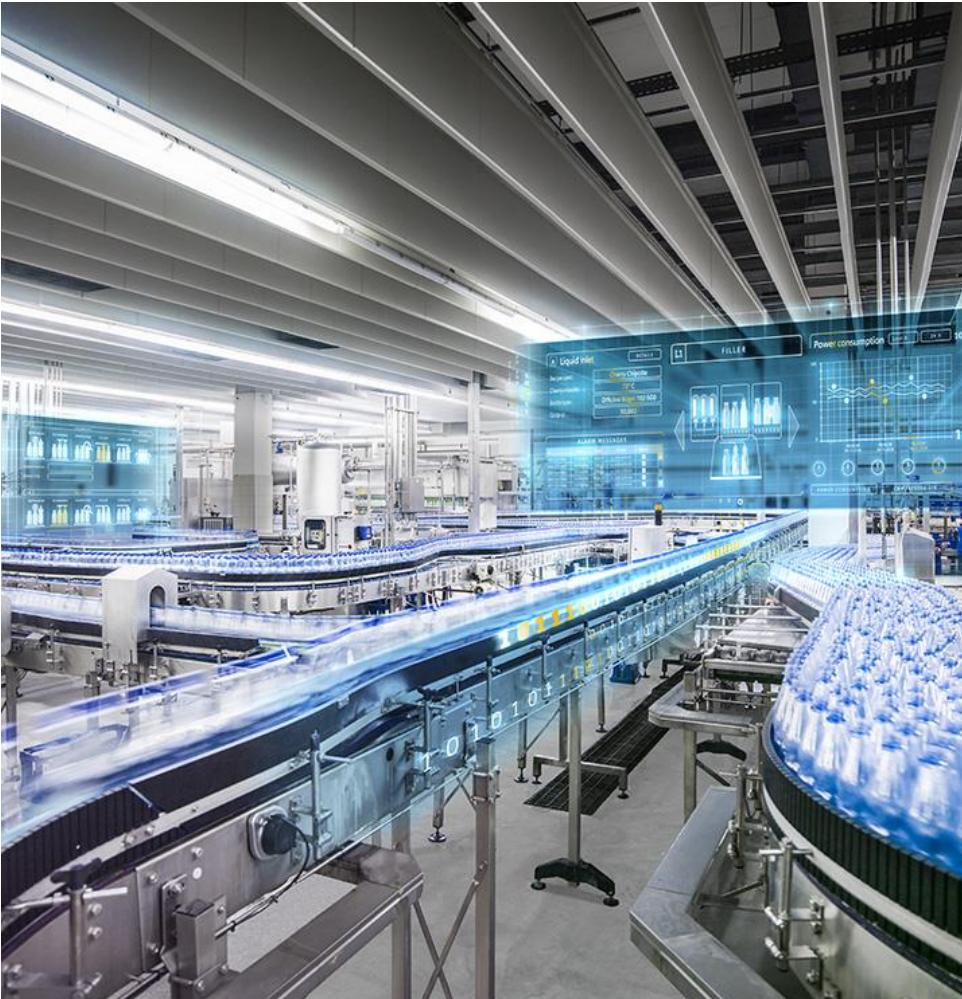
# WinCC RT Professional V16 Architectures

The SCADA system inside TIA Portal – Efficiency and transparency for your plant



# WinCC RT Professional V16 architectures

## Legend



- WinCC Runtime Professional V16  
Base Packages = Base Package
- SIMATIC Information Server 2014 SP3 upd4 = IS2014
- SIMATIC Process Historian 2014 SP3 upd4 = PH2014

# WinCC RT Professional V16

## Basic functionality

| Basic functionality       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WinCC / OPC-Server</b> | <ul style="list-style-type: none"><li>• The WinCC OPC servers provide customer-specific OPC clients with data from the WinCC data warehouse, e.g. process values or messages.</li><li>• The WinCC OPC UA server is installed as Windows service and started automatically.<br/>The WinCC OPC UA server supports only the communication profile "UA-TCP UA-SC UA Binary". The used port number is adjustable.</li><li>• WinCC OPC HDA Server<br/>The WinCC OPC HDA Server enables an OPC HDA Client to access the archived process values in the WinCC archive system.</li></ul>                                                                                                        |
| <b>Runtime API</b>        | <ul style="list-style-type: none"><li>• Runtime API describes the open programming interface of WinCC.</li><li>• Via the API functions, you use the internal functions of WinCC in your own applications and access HMI tag data or data in the archives</li></ul> <p><u>Application</u></p> <ul style="list-style-type: none"><li>• API functions are used in the following places:</li><li>• Within WinCC: In user-defined C -functions and local C-scripts.</li><li>• Outside of WinCC: In Windows applications created in the C/C++ programming language. To use Runtime API in the C# or VB.Net programming languages, you must program a corresponding implementation.</li></ul> |

# WinCC RT Professional V16

## Runtime options



| Runtime Options                                     | Description                                                                                                                                                         |                                                                              |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>WinCC Server / WinCC Client</b>                  | Server/client systems                                                                                                                                               | Server Lizenz:<br>6AV2107-0EB00-0BB0<br>Client-Lizenz:<br>6AV2107-0DB06-0AH0 |
| <b>WinCC Recipes</b>                                | Organization of data records for associated machines / production data                                                                                              | 6AV2107-0JB00-0BB0                                                           |
| <b>SIMATIC WinCC Redundancy</b>                     | WinCC Redundancy provides a considerable increase in the availability of WinCC and the system as a whole by operating two servers at the same time linked together. | 6AV2107-0FB00-0BB0                                                           |
| <b>WinCC Logging (1500/5000 Tags)</b>               | Archiving of process data (including 500 archive tags)                                                                                                              | 6AV2107-0GB00-0BB0                                                           |
| <b>WinCC WebNavigator</b>                           | Control and monitoring via the web (MS Internet Explorer)                                                                                                           | See WebNavigator slides                                                      |
| <b>WebUX</b>                                        | Platform and browser-independent operator control and monitoring via the web (HTML5)                                                                                | See WebUX slides                                                             |
| <b>WinCC DataMonitor</b>                            | Monitoring and analyzing of current and historical process data via the web (MS IE) For new systems, the information server is recommended                          |                                                                              |
| <b>SIMATIC Information Server 2014 SP3<br/>upd4</b> | Web-based analysis and historical process data reports (browser dependent)                                                                                          |                                                                              |
| <b>SIMATIC Process Historian 2014 SP3<br/>upd4</b>  | Plant-wide archive for messages and process data                                                                                                                    |                                                                              |
| <b>Industrial Data Bridge<sup>1)</sup></b>          | Configurable connections to databases and IT systems                                                                                                                |                                                                              |
| <b>SIMATIC ProDiag</b>                              | SIMATIC ProDiag allows selective and fast machine and plant diagnostics for SIMATIC S7-1500 and SIMATIC HMI:                                                        | 6AV2107-0UB00-0BB0                                                           |

# WinCC RT Professional V16

## Engineering Options



| Engineering Options                                     | Description                                                                                                                                                                                                             |                    |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>SIMATIC EnergySuite</b><br>(incl. 10 Energy Objects) | Transparency of energy consumption <ul style="list-style-type: none"> <li>• SIMATIC Energy Suite Engineering</li> <li>• SIMATIC Energy Suite S7-1500, 5-100 Energy Objects</li> </ul>                                   | 6AV2108-0AA06-0AA5 |
| <b>SIMATIC Visualization Architect</b>                  | SIMATIC Visualization Architect (SiVArc) enables simple, fast, and flexible automated creation of HMI contents based on the STEP 7 user program.                                                                        | 6AV2107-0PX06-0AA5 |
| <b>MultiUser</b>                                        | TIA Portal Multiuser Engineering allows several users to work on the same project simultaneously.                                                                                                                       | 6ES7823-1AA06-0YA5 |
| <b>TIA Portal Teamcenter Gateway</b>                    | The TIA Portal Teamcenter Gateway permits storage and management of TIA Portal projects and global libraries in Teamcenter.                                                                                             | 6ES7823-1EA06-0YA5 |
| <b>TIA Portal Cloud Connector</b>                       | The TIA Portal Cloud Connector enables access to local PC interfaces and connected SIMATIC hardware in the TIA Portal Engineering even though the engineering itself takes place via remote desktop in a private cloud. | 6ES7823-1CA00-0YA0 |
| <b>SIMATIC ODK 1500S</b>                                | The SIMATIC ODK 1500S allows the development of function libraries with the high-level languages C/C++ for ODK-capable SIMATIC S7-1500 PLCs.                                                                            | 6AV2108-0AA06-0AA5 |
| <b>SIMATIC Target 1500S TM for Simulink®</b>            | The SIMATIC Target 1500S TM for Simulink® is an add-on for Simulink from MathWorks. It allows the integration of Simulink models directly into the program cycle of an ODK-capable S7-1500 PLC.                         | 6AV2107-0PX06-0AA5 |

# SIMATIC WinCC Professional

## WinCC Premium Add-ons for Process Management



|                           |                                                                    |
|---------------------------|--------------------------------------------------------------------|
| Efficient data management | <b>Data consistency over the entire production process</b>         |
| <b>PM-CONTROL</b>         | Flexible parameter management and job control                      |
| <b>PM-QUALITY</b>         | Batch-based archiving and reporting                                |
| Diagnostic management     | <b>Higher availability of machines and production plants</b>       |
| <b>PM-MAINT</b>           | Intelligent maintenance management system                          |
| <b>PM-ANALYZE</b>         | Efficient identification of weak points in the process + reporting |
| Open-mindedness           | <b>Consolidation of automation and IT world</b>                    |
| <b>PM-OPEN-EXPORT</b>     | Automatic export of process data                                   |
| <b>PM-OPEN-IMPORT</b>     | Automatic import of messages and archive values                    |
| <b>PM-LOGON</b>           | Automatic registration, e.g.: via RFID                             |

[siemens.com/process-management](https://www.siemens.com/process-management)

\\www004.siemens.net\bu01\$\NbgM\PROJ\PROMOTOREN\_VM\VM\_WARE\_WORLD\_WITHOUT\_UCL\Inst\_SW\2019\_01\_Install\_PM\_AddOn

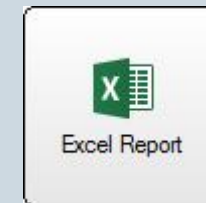
# Analysis + Reporting with PM-ANALYZE



Archiving, Display and analysis of alarms from several different systems in chronological order

- SIMATIC WinCCV7
- PCS7
- WinCC Comfort / RT Professional
- WinCC Advanced
- WinCC flexible
- Event log of the operating system

- Database and archiving
- Manual input values
- Reporting with Microsoft Excel
- Automatic report generation
- Add-in for Microsoft Excel 2007, 2010, 2013, 2016
  - Access to all process value and summarization archives
  - Access to calculated values and key figures
  - Access to messages and operating actions



# WinCC RT Professional V16

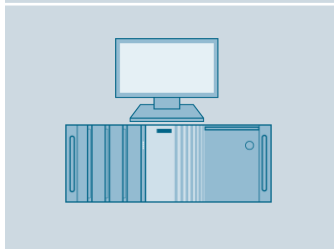
## Explanation of symbols



**WinCC Single-User System**



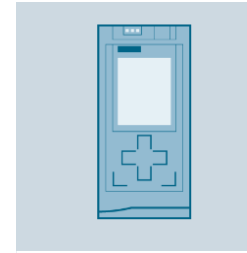
**WinCC Server**



**WinCC Standard Client**



**PC without WinCC**



**S7 System Components**



**External Database**  
e.g.: SQL, Oracle, Access



**Software to be installed on the computer**



# WinCC RT Professional V16

## System requirements for supported Operating Systems

- Windows 10 64bit Pro
  - Version 1809 (OS Build 17763)
  - Version 1903 (OS Build 18362)
- Windows 10 64bit Enterprise
  - Version 1809 (OS Build 17763)
  - Version 1903
- Windows 10 64bit IoT Enterprise LTSC
  - 2015 LTSP (OS Build 10240) (Test for IPC)
  - 2016 LTSP (OS Build 14393) (Test for IPC)
  - 2019 LTSP (OS Build 17763) (Test for IPC)
- Windows Server 2012 R2 64bit StdE
- Windows Server 2016 64Bit Standard
- Windows Server 2019 64Bit Standard

### Office

- Excel 2016
  - Build 16.0.6769 (32 or 64 Bit)
  - Access to Online Office 365



<sup>1)</sup> The Windows operating system is only released together with a SIMATIC IPC.

# WinCC RT Professional V16 Browser

## Microsoft Browser:

- Google Chrome\*
- Microsoft Edge
- Mozilla Firefox, Mozilla Firefox ESR



## Android Browser:

- Google Chrome\*
- Firefox
- Edge

## iOS & Mac Browser:

- Safari\*
- Google Chrome
- Firefox
- Edge



\* Browser with the main focus for this operating system

# WinCC RT Professional V16

## Supported virtualization software



### WinCC Engineering and Runtime

- WinCC Professional V16 & WinCC Runtime Professional V16 are released for the following virtualization platforms

| Virtualization platforms                           | Engineering | Runtime Advanced/<br>Professional |
|----------------------------------------------------|-------------|-----------------------------------|
| VMware vSphere Hypervisor (ESXi) ab, 6.5 or higher | ✓           | ✓                                 |
| VMware Workstation 12.5.5 / 15.0.2                 | ✓           | ✗                                 |
| VMware Player 12.5.5/ 15.0.2                       | ✓           | ✗                                 |
| Microsoft Windows Hyper-V Server 2016 or 2019      | ✓           | ✓                                 |

All of the released operating systems can be used as host operating systems in a virtualization platform.

# WinCC RT Professional V16

## Compatibility and general information (continued)



### Side-by-side installation with all SIMATIC products

#### Parallel installation von WinCC Runtime Professional V16 and other SIMATIC HMI Products

The parallel installation of WinCC V16 with versions of WinCC flexible before WinCC flexible 2008 SP5 is not permitted.

The parallel installation of WinCC V16 with WinCC V7 is not permitted for:

- WinCC V16 Professional
- WinCC V16 Runtime Professional

#### Parallel Use

If the software or license key after the installation is named with the affix “Combo”, the use of the following products/versions is permitted:

- With license "STEP 7 Professional Combo": older versions of STEP 7 (STEP 7 Professional 2006 – STEP 7 Professional V16)
- With license "WinCC V16 Comfort Combo": WinCC flexible 2008 Standard
- With license "WinCC V16 Advanced Combo": WinCC flexible 2008 Advanced



# WinCC RT Professional V16

## Compatibility and general information (continued)



### Remote-Software → [Link](#)

The following options are available for remote access to WinCC stations:

- NC (Real VNC) Enterprise Edition V5.0.1.
- RDP (Remote Desktop Protocol)

The RealVNC software must be used for remote access to the other computers of a distributed WinCC system (e.g. WinCC Server).

The Remote Desktop Protocol (RDP) may only be used for remote maintenance of WinCC clients. Furthermore, no server services (e.g. WebNavigator server, DataMonitor server, OPC server) may be active on these computers. The reason for this is the handling of the remote desktop sessions by the Microsoft operating system.

### WinCC running in service mode

The service mode allows you to run WinCC Runtime Professional as a service.

WinCC Runtime Professional can also be active as a service if no interactive user is logged on to the computer.

# WinCC RT Professional V16

## Compatibility and general information (continued)



### Remote Software: Using RealVNC→ [Link](#)

The following scenarios were tested:

- WinCC as a single-user system
- WinCC as a distributed system
- WinCC in redundant operation
- WinCC/WebUX Server

You can also use communication via OPC in the released scenarios.

Start Remote Desktop

Access to WinCC systems with a Remote Desktop Client is only possible via a console session.

Access via the Remote Desktop Protocol may only take place via console transfer with the same user or initial logon.

# SIMATIC WinCC RT Professional Upgrade for Power Tags at WinCC in TIA Portal (to V16)



| ... WinCC RT Professional V11... → V16 |                    | RT SUS (V16)       |
|----------------------------------------|--------------------|--------------------|
| WinCC RT Professional RT Client        |                    | 6AV2107-0DB00-0AL0 |
| WinCC RT Professional 128              | 6AV2105-3BB06-0AE0 | 6AV2105-0XA00-0AL0 |
| WinCC RT Professional 512              | 6AV2105-3DD06-0AE0 |                    |
| WinCC RT Professional 2k               | 6AV2105-3FF06-0AE0 |                    |
| WinCC RT Professional 4k               | 6AV2105-3HH06-0AE0 |                    |
| WinCC RT Professional 8k               | 6AV2105-3KK06-0AE0 |                    |
| WinCC RT Professional 64k-250k         | 6AV2105-3MM06-0AE0 |                    |

The information in SIOS is available: <https://support.industry.siemens.com/cs/ww/en/view/109751896>

# SIMATIC WinCC Professional Powertags



## Server

The number of WinCC Runtime Professional PowerTags for the server is selectable.

Power Packs extend the number of available tags.

The total price remains constant.

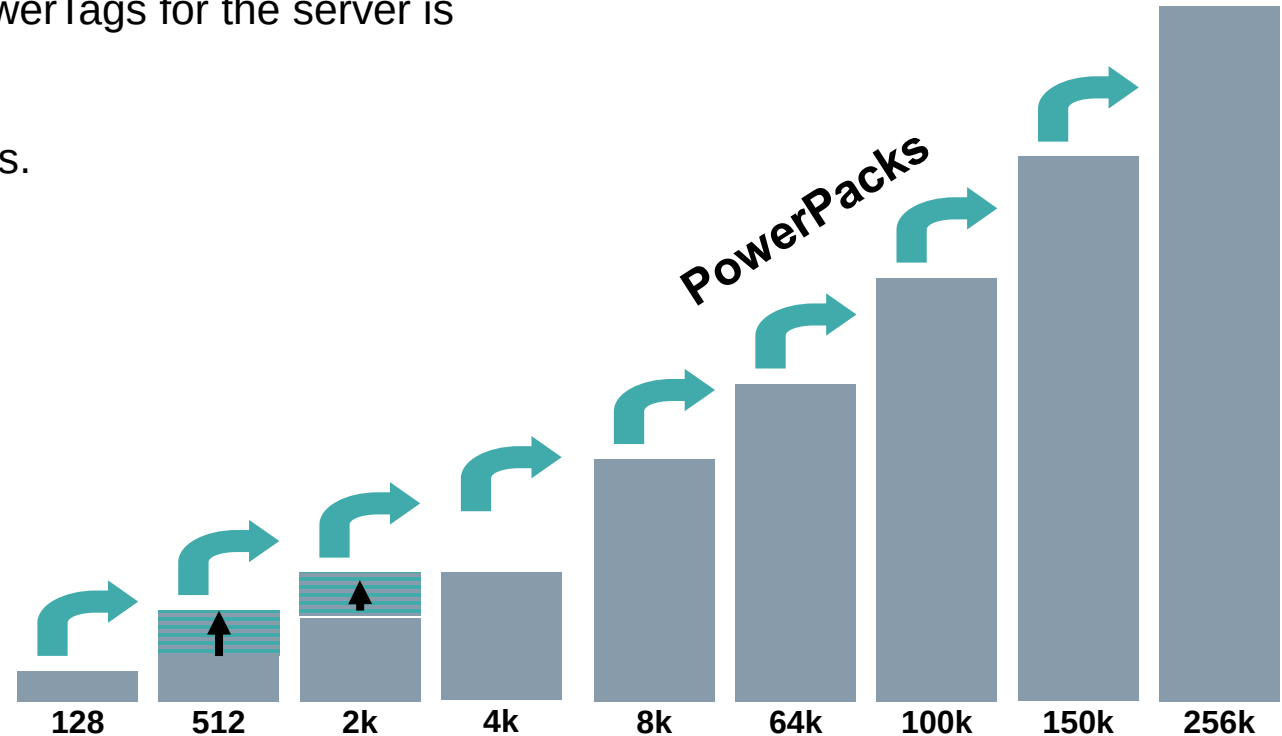
## Client

The Client is being deployed for

- WinCC RT Professional Client

Or

- WinCC RT Professional 128



# SIMATIC WinCC Professional Engineering

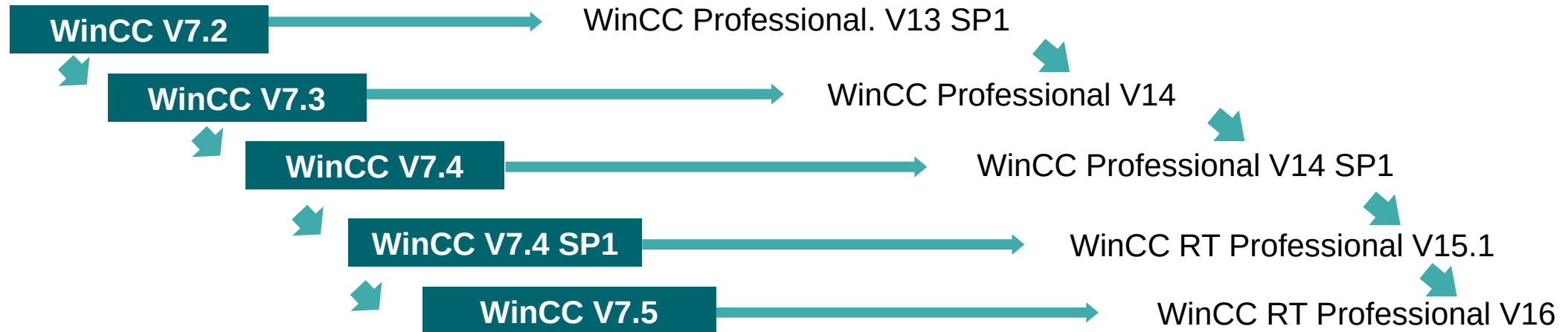
## Upgrade WinCC in TIA Portal (V13.SPx to V16)



| ... WinCC Professional V11 to V16                                                                                                                                                 |                                                                | <u>Online Software Delivery</u>                                | SUS                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|
| <ul style="list-style-type: none"> <li>WinCC Professional V16 512</li> <li>WinCC Professional V16 4096</li> <li>WinCC Professional V16 max.</li> </ul>                            | 6AV2103-3DA06-0AE5<br>6AV2103-3HA06-0AE5<br>6AV2103-3XA06-0AE5 | 6AV2103-3DA06-0AK5<br>6AV2103-3HA06-0AK5<br>6AV2103-3XA06-0AK5 | 6AV21030DA000AY0<br>6AV21030HA000AY0<br>6AV21030XA000AY0 |
| <ul style="list-style-type: none"> <li>WinCC Prof.V16 512 Powertags SUS DL</li> <li>WinCC Prof.V16 4096 Powertags SUS DL</li> <li>WinCC Prof.V16 max. Powertags SUS DL</li> </ul> |                                                                |                                                                |                                                          |



# SIMATIC WinCC Professional Migration from WinCC V7 RC/RT



| WinCC RC/RT V7.0...V7.5 → WinCC V16 |                                |                    | <a href="#">OSD</a> |
|-------------------------------------|--------------------------------|--------------------|---------------------|
| V7 RT Client                        | → WinCC RT Professional Client | 6AV2107-4DB06-0AE0 | 6AV2107-4DB06-0AK0  |
| V7 RC/RT 128                        | → RT Prof. 128                 | 6AV2105-4BB06-0AE0 | 6AV2105-4BB06-0AK0  |
| V7 RC/RT 512                        | → RT Prof. 512                 | 6AV2105-4DD06-0AE0 | 6AV2105-4DD06-0AK0  |
| V7 RC/RT 2k                         | → RT Prof. 2k                  | 6AV2105-4FF06-0AE0 | 6AV2105-4FF06-0AK0  |
| V7 RC/RT 8k                         | → RT Prof. 8k                  | 6AV2105-4KK06-0AE0 | 6AV2105-4KK06-0AK0  |
| V7 RC/RT 64k                        | → RT Prof. >= 64k              | 6AV2105-4MM06-0AE0 | 6AV2105-4MM06-0AK0  |

**When upgrading from V7 RC/RT, ONLY the RT Professional license will be delivered with immediate effect. The WinCC Professional Engineering software must be ordered separately if required.**

# Engineering: WinCC RT Professional V16

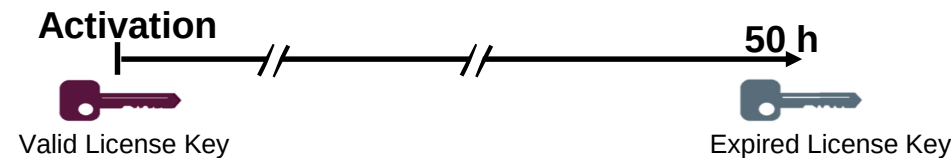
## The following security programs were tested:

- Trend Micro "Office Scan" 12.0
- Symantec Endpoint Protection V14.0
- McAfee Endpoint Security (ENS) 10.5
- Kaspersky Endpoint Security 11.1
- Windows Defender (version contained in the operating system)
- Qihoo 360 "Safe Guard 11.5" + "Virus Scanner"



## Runtime

- WinCC differentiates between RT licenses (Runtime) and ES licenses (Configuration) as well as the number of tags.
- RT licenses permit the operation of WinCC in runtime for an unlimited period of time.  
With this license you can use up to 262 144 external tags and up to 500 archive tags (WinCC Logging) in Runtime.  
Engineering is not possible.
- New :... the license for sporadic use:50h of actual use – where the usage can be interrupted as often as required



## Engineering

A license key is required for:

- WinCC Engineering System, e.g. WinCC Professional
- Options for WinCC Engineering System

## Web options

- The license type of the web options (WEBNAVIGATOR, DATAMONITOR and WebUX ) becomes consistently countable.

# SIMATIC WinCC Professional V16

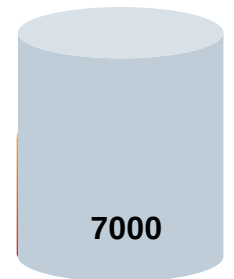
## Order data Logging



| ... Runtime Professional V16 Logging*)                                                         |                                                        | <u>Online Software Delivery</u>          |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------|
| <ul style="list-style-type: none"> <li>1500 Logging Tags</li> <li>5000 Logging Tags</li> </ul> | 6AV2107-0GB00-0BB0<br>6AV2107-0GD00-0BB0               | 6AV2107-0GB00-0BH0<br>6AV2107-0GD00-0BH0 |
| <ul style="list-style-type: none"> <li>1500 -&gt; 5000 Logging Tag</li> </ul>                  | Not applicable due to conversion to additive licenses! |                                          |

- **WinCC Professional** contains 500 Archive Tags in the base system
- **WinCC Logging Tags** are expandable by:1500 and 5000.
- Archive licenses can be combined/ pooled (countable licenses).
- WinCC Professional supports **up to 80k Archive Tags**

+5000 Archive Tags  
 +1500 Archive Tags  
 500 Archive Tags



**\*) Number of tags are additive, i.e. total archive tags = sum of individual licenses**

# WinCC RT Professional V16 basic station

## Article numbers



### SIMATIC WinCC Professional xx PowerTags V16 Engineering

| Description                                                                                                                                                                                                                               | Order number EU    |                          | Order number ASIA |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------|-------------------|
|                                                                                                                                                                                                                                           | DVD                | Online Software Download | DVD               |
| <b>512 PowerTags</b>                                                                                                                                                                                                                      | 6AV2103-0DA06-0AA5 | 6AV2103-0DA06-0AH5       | -                 |
| <b>4096 PowerTags</b>                                                                                                                                                                                                                     | 6AV2103-0HA06-0AA5 | 6AV2103-0HA06-0AH5       | -                 |
| <b>Max PowerTags</b>                                                                                                                                                                                                                      | 6AV2103-0XA06-0AA5 | 6AV2103-0XA06-0AH5       | -                 |
| <b>NEW: SIMATIC 50h Engineering with STEP 7 Professional V14 SP1 Combo</b> , SIMATIC 50h Engineering with STEP 7 Professional Combo, WinCC Professional (incl. WinCC flexible 2008) and STEP 7 Safety Advanced (incl. Distributed Safety) |                    | 6ES7823-1GE06-0YA5       | -                 |

### SIMATIC WinCC Runtime Professional ... PowerTags V16 Basis Package (RT incl. 500 Archive Variables) (RT incl. 500 Archive Variables and one WebUX Monitor Client)

|                                     |                    |                    |                    |
|-------------------------------------|--------------------|--------------------|--------------------|
| <b>128 PowerTags</b>                | 6AV2105-0BA06-0AA0 | 6AV2105-0BA06-0AH0 | 6AV2105-0BA16-0AA0 |
| <b>512 PowerTags</b>                | 6AV2105-0DA06-0AA0 | 6AV2105-0DA06-0AH0 | 6AV2105-0DA16-0AA0 |
| <b>2048 PowerTags</b>               | 6AV2105-0FA06-0AA0 | 6AV2105-0FA06-0AH0 | 6AV2105-0FA16-0AA0 |
| <b>4096 PowerTags</b>               | 6AV2105-0HA06-0AA0 | 6AV2105-0HA06-0AH0 | 6AV2105-0HA16-0AA0 |
| <b>8192 PowerTags</b>               | 6AV2105-0KA06-0AA0 | 6AV2105-0KA06-0AH0 | 6AV2105-0KA16-0AA0 |
| <b>65536 PowerTags</b>              | 6AV2105-0MA06-0AA0 | 6AV2105-0MA06-0AH0 | 6AV2105-0MA16-0AA0 |
| <b>102400 PowerTags</b>             | 6AV2105-0PA06-0AA0 | 6AV2105-0PA06-0AH0 | 6AV2105-0PA16-0AA0 |
| <b>153600 PowerTags</b>             | 6AV2105-0RA06-0AA0 | 6AV2105-0RA06-0AH0 | 6AV2105-0RA16-0AA0 |
| <b>262144 PowerTags</b>             | 6AV2105-0TA06-0AA0 | 6AV2105-0TA06-0AH0 | 6AV2105-0TA16-0AA0 |
| <b>WinCC Client for RT Prof V15</b> | 6AV2107-0DB06-0AA0 | 6AV2107-0DB06-0AH0 | 6AV2107-0DB16-0AA0 |

Please note the price advantage for Online Software Delivery!

# SIMATIC WinCC Professional

## Order Data Engineering / Trial



Link to compatibility list: [Compatibility List](#)

| ... Trial Software                                                                                                  |                    | <u>Online Software Delivery</u>     |
|---------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------|
| <ul style="list-style-type: none"><li>Engineering Trial Software V16<br/>WinCC Basic / Comfort / Advanced</li></ul> | 6AV2102-0AA06-0AA7 | Download in Customer Support Portal |
| <ul style="list-style-type: none"><li>SIMATIC WinCC Professional V16,</li><li>Trial License</li></ul>               | 6AV2103-0AA06-0AA7 |                                     |

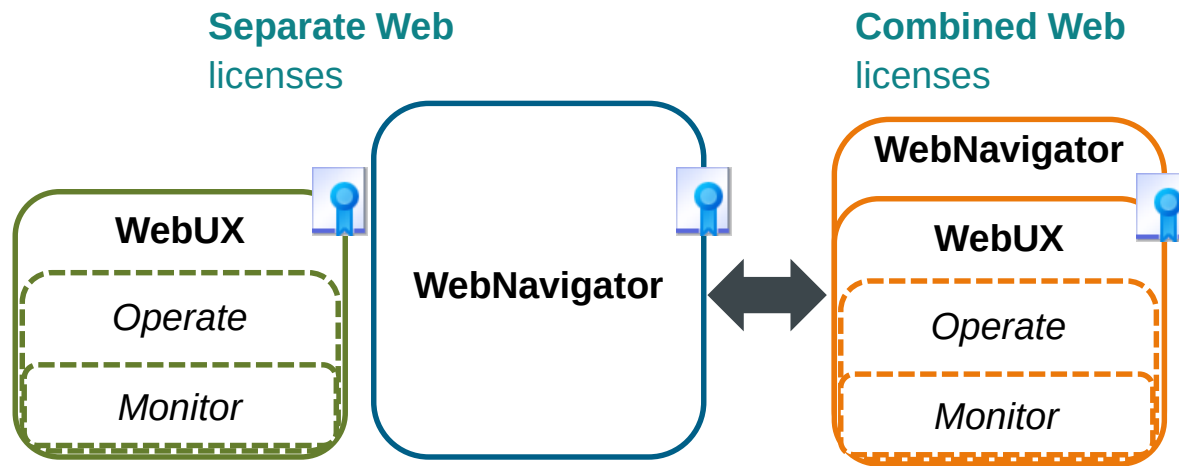


# Integrated licensing concept

## NEW as of WinCC V7.4 / RT Professional V14

### Web solutions with WebNavigator and WebUX

In the future, these SCADA options will have **standardized MLFBs as of V7.4 or V14** and therefore there will no longer be any in-house MLFBs for **WinCC RT Professional V15**



**IIS on Windows 10** supports a maximum of **ten connections** or instances. WebUX requires more than one connection for a client. Therefore, a maximum of **three WebUX** clients can connect to the WebUX server. If the limit is exceeded, you can no longer operate the instances already connected

### Scalable web access

#### Switching between two license models:

- Separate or combined Web-licenses  
WebUX Monitor Client (read only)  
WebUX Operate Client (read-write)  
Web Navigator Client (read-write)

#### Web Licenses are additive:

- all WebClients = sum of the individual licenses (**countable**)  
(1, 3, 10, 30, 100 clients)
- Reserving licenses for users
- No update costs, because version-independent licenses (existing licenses remain valid after upgrade)

**1x WinCC WebUX Monitor Client FREE!**

# Integrated licenses

NEW as of WinCC V7.4 SP1 / WinCC RT Professional V14



## WinCC WebNavigator (countable)

| Description                          | Order number:<br>DVD<br>EU | Order number<br>Online Software Download<br>EU | Order number:<br>DVD<br>ASIA |
|--------------------------------------|----------------------------|------------------------------------------------|------------------------------|
| WinCC WebNavigator - 1 Client        | 6AV6362-1AB00-0BB0         | 6AV6362-1AB00-0AH0                             | 6AV6362-1AB00-0BB0           |
| WinCC WebNavigator - 3 Clients       | 6AV6362-1AD00-0BB0         | 6AV6362-1AD00-0AH0                             | 6AV6362-1AD00-0BB0           |
| WinCC WebNavigator - 10 Clients      | 6AV6362-1AF00-0BB0         | 6AV6362-1AF00-0AH0                             | 6AV6362-1AF00-0BB0           |
| WinCC WebNavigator - 30 Clients      | 6AV6362-1AJ00-0BB0         | 6AV6362-1AJ00-0AH0                             | 6AV6362-1AJ00-0BB0           |
| WinCC WebNavigator - 100 Clients     | 6AV6362-1AM00-0BB0         | 6AV6362-1AM00-0AH0                             | 6AV6362-1AM00-0BB0           |
| WinCC WebNavigator Diagnostic Client | 6AV6362-1BA00-0BB0         | 6AV6362-1BA00-0AH0                             | 6AV6362-1BA00-0BB0           |

## WinCC DataMonitor (countable)

| Description                    | Order number:<br>DVD<br>EU | Order number :<br>Online Software Download<br>EU | Order number:<br>DVD<br>ASIA |
|--------------------------------|----------------------------|--------------------------------------------------|------------------------------|
| WinCC DataMonitor - 1 Client   | 6AV6362-3AB00-0BB0         | 6AV6362-3AB00-0AH0                               | 6AV6362-3AB00-0BB0           |
| WinCC DataMonitor - 3 Clients  | 6AV6362-3AD00-0BB0         | 6AV6362-3AD00-0AH0                               | 6AV6362-3AD00-0BB0           |
| WinCC DataMonitor - 10 Clients | 6AV6362-3AF00-0BB0         | 6AV6362-3AF00-0AH0                               | 6AV6362-3AF00-0BB0           |
| WinCC DataMonitor - 30 Clients | 6AV6362-3AJ00-0BB0         | 6AV6362-3AJ00-0AH0                               | 6AV6362-3AJ00-0BB0           |

# Integrated licenses

NEW from WinCC V7.4 / WinCC RT Professional V14



## WinCC WebUX (Monitor countable)

| Description                     | Order number:<br>DVD<br>EU | Order number<br>Online Software Download<br>EU | Order number:<br>DVD<br>ASIA |
|---------------------------------|----------------------------|------------------------------------------------|------------------------------|
| WinCC WebUX Monitor 1 Client    | 6AV6362-2AB00-0BB0         | 6AV6362-2AB00-0AH0                             | 6AV6362-2AB00-0BB0           |
| WinCC WebUX Monitor 3 Clients   | 6AV6362-2AD00-0BB0         | 6AV6362-2AD00-0AH0                             | 6AV6362-2AD00-0BB0           |
| WinCC WebUX Monitor 10 Clients  | 6AV6362-2AF00-0BB0         | 6AV6362-2AF00-0AH0                             | 6AV6362-2AF00-0BB0           |
| WinCC WebUX Monitor 30 Clients  | 6AV6362-2AJ00-0BB0         | 6AV6362-2AJ00-0AH0                             | 6AV6362-2AJ00-0BB0           |
| WinCC WebUX Monitor 100 Clients | 6AV6362-2AM00-0BB0         | 6AV6362-2AM00-0AH0                             | 6AV6362-2AM00-0BB0           |

## WinCC WebUX (Operate countable)

| Description                     | Order number:<br>DVD<br>EU | Order number<br>Online Software Download<br>EU | Order number:<br>DVD<br>ASIA |
|---------------------------------|----------------------------|------------------------------------------------|------------------------------|
| WinCC WebUX Operate 1 Client    | 6AV6362-2BB00-0BB0         | 6AV6362-2BB00-0AH0                             | 6AV6362-2BB00-0BB0           |
| WinCC WebUX Operate 3 Clients   | 6AV6362-2BD00-0BB0         | 6AV6362-2BD00-0AH0                             | 6AV6362-2BD00-0BB0           |
| WinCC WebUX Operate 10 Clients  | 6AV6362-2BF00-0BB0         | 6AV6362-2BF00-0AH0                             | 6AV6362-2BF00-0BB0           |
| WinCC WebUX Operate 30 Clients  | 6AV6362-2BJ00-0BB0         | 6AV6362-2BJ00-0AH0                             | 6AV6362-2BJ00-0BB0           |
| WinCC WebUX Operate 100 Clients | 6AV6362-2BM00-0BB0         | 6AV6362-2BM00-0AH0                             | 6AV6362-2BM00-0BB0           |

# WinCC RT Professional V16 ?

## In which case WinCC RT Advanced / WinCC V7 ?

### WinCC RT Advanced

- Single user system with max 16 384 PowerTags
- No clients
- Support of bit messages and analog messages as well as the event-controlled alarm procedure Alarm-S / D for SIMATIC S7
- Recipes:  
Creation of data sets for machine data or production data
- WinCC Logging  
For archiving variables and messages

### WinCC V7

- 18 servers
- 64 clients or
- 50 multi-clients
- 150 web clients
- 2 Server (redundant)
- Possibility to connect to SAP Hana/SAP R3 via PM Add ons
- KPI evaluation (see V7 Performance Monitor)
- Connection of telecontrol stations (WinCC V7 TeleControl )
- Generierung from Tags, Messages, pictures, Trend with VBA
-

# WinCC RT Professional V16

## In which case WinCC RT Professional V16?



### Project TIA Portal for SPS / SCADA

- Perfect integration into the TIA Portal => customer has been using and is familiar with the TIA Portal for a long time
- WinCC integrated
- System diagnosis, time stamping at source
- Process diagnosis
- SIMATIC Energy Suite
- Generierung from pictures with SiVArc
- Intelligentes Lastmanagement

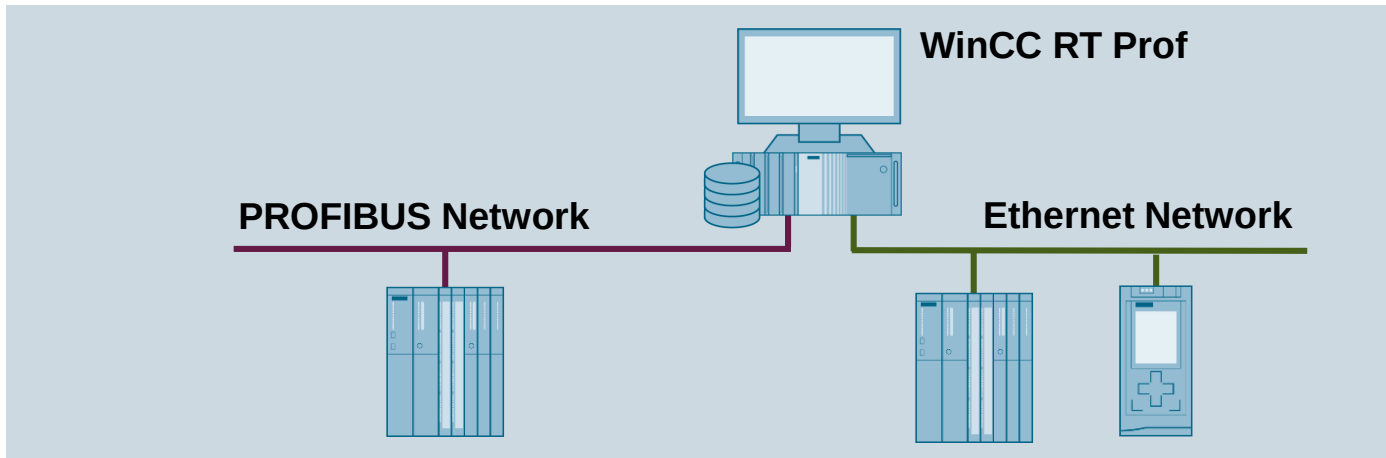
### System Architecture

good SCADA solution for small to medium solutions

1 server (optional redundant) maximum 32 clients

# WinCC RT Professional V16

## Communication with the process



### Ethernet Card of the PC:

- SOFTNET-IE S7  
max. **64** connections (6GK1704-1CW16-0AA0)
- SOFTNET-IE S7 Extended  
max. **128 connections** (6GK1704-1BW16-0AA0)

### With CP

- CP 1623 PCIe: (6GK1162-3AA00)

### CP 5621 PCIe Softnet Module

- S7 MPI/PROFIBUS protocols included in WinCCCP 5613 A2 PCI
- **Hardnet Module**
- S7 MPI/PROFIBUS protocols
- A license is required

**WinCC RT Professional V16 supports max 128 S7 connections of which:**

- max. **128 x S7-1200 / S7-1500** Connections
- max. **64 x S7-300/400** Connections

### Ethernet Card of the PC

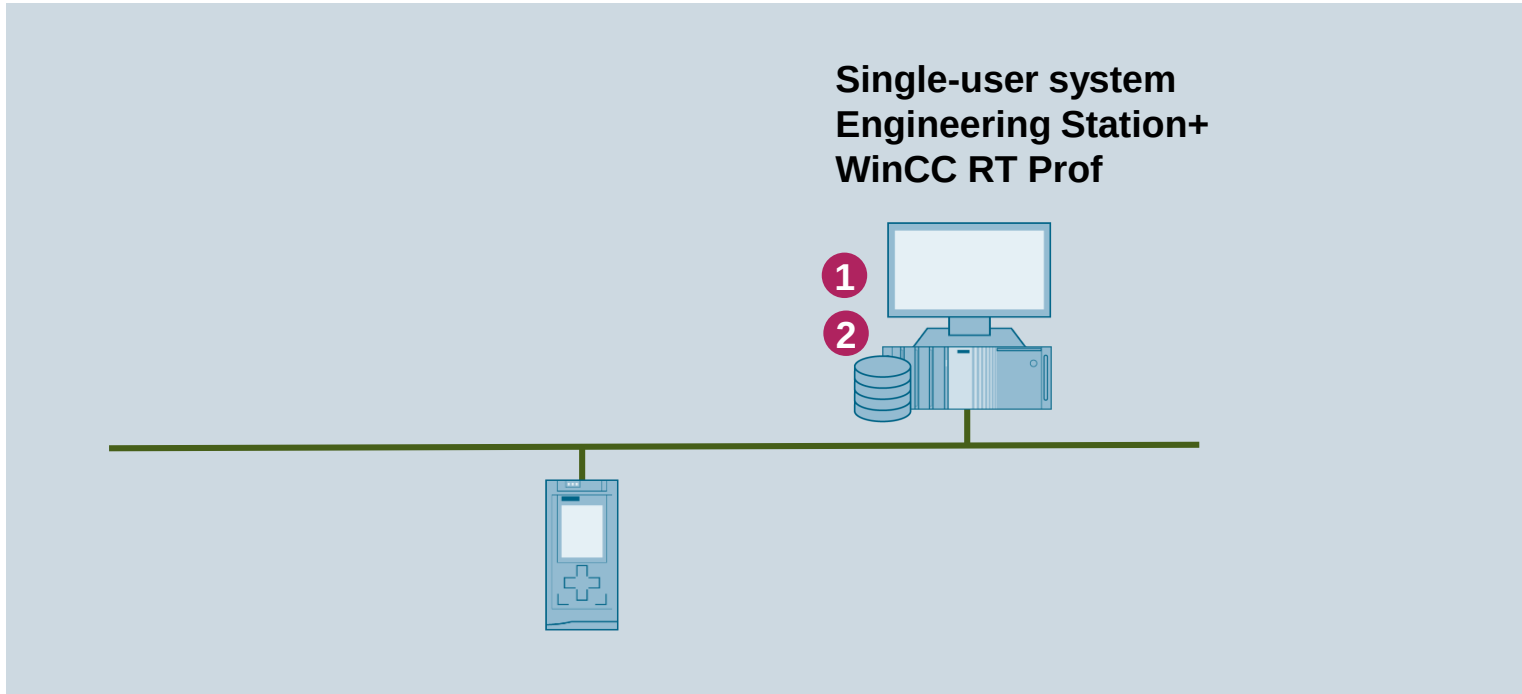
- Protocols 1200/1500, S7 TCP/IP, Ind. Eth
- Licenses for
- SOFTNET-IE S7 Lean max. 8 connections (included in the WinCC package)
- With > 8 connections => license required for Softnet-IE S7

### CP 1623 PCIe Hardnet Assembly (license for Hardnet-IE S7 (S7 1613) required)

- *It is recommended that you use separate network cards for reducing the load on the PC-CPU*
  - max. **128 x S7-1500/1200** Connections
  - max. **64 x S7-1500/1200** Connections
  - max. **64 x S7-300/400** Connections
- Example:
- LAN Card 1: 64 x 1200/1500
  - + LAN Card 2: 64 x 300/400

# Single-user system

## Operator control and monitoring with a single PC



### Additional information

- Quantity Structure:
  - Process tags: up to 262 144 (depending on license selected)
  - Archive tags: max. 80 000 (depending on WinCC Logging option)
- (Note: WinCC Pro 500 archive tags are included in the basic version.)

### 1 Basis Paket = SIMATIC WinCC Runtime Professional PowerTags V16

#### WinCC RT Prof n

e. g.:

- 512 PowerTags
- 2048 PowerTags
- 4096 PowerTags
- 8192 PowerTags
- 65 536 PowerTags
- 102 400 PowerTags
- 153 600 PowerTags
- 262 144 PowerTags

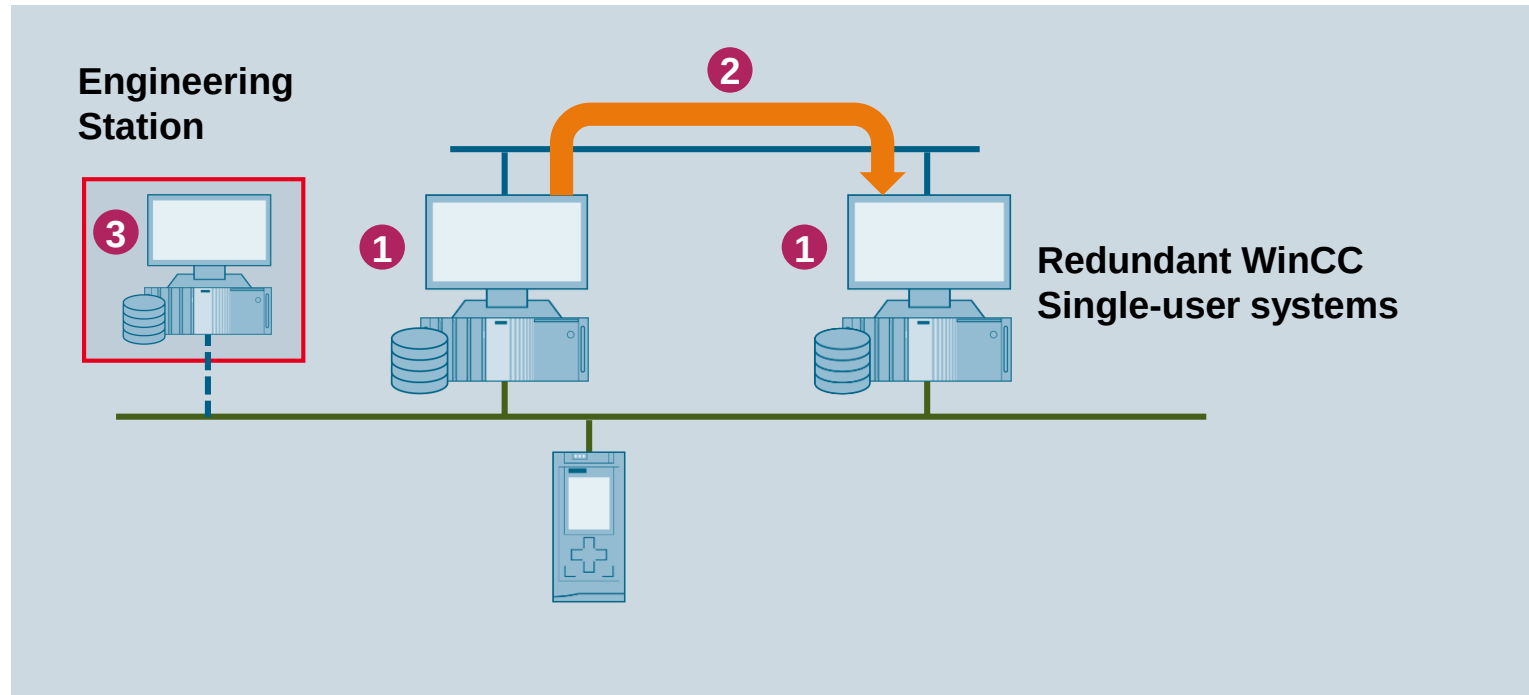
#### SIMATIC Net V16

### 2 SIMATIC WinCC Engineering System Base Package V16

- 512 PowerTags
- 4096 PowerTags
- Max. PowerTags



# Redundant single-user systems - 2 operator control and monitoring stations with a high degree of availability



## 1 Base Package

WinCC RT Prof n  
SIMATIC Net V16

## 2 WinCC Redundancy

MLFB: 6AV2107-0FB00-0BB0

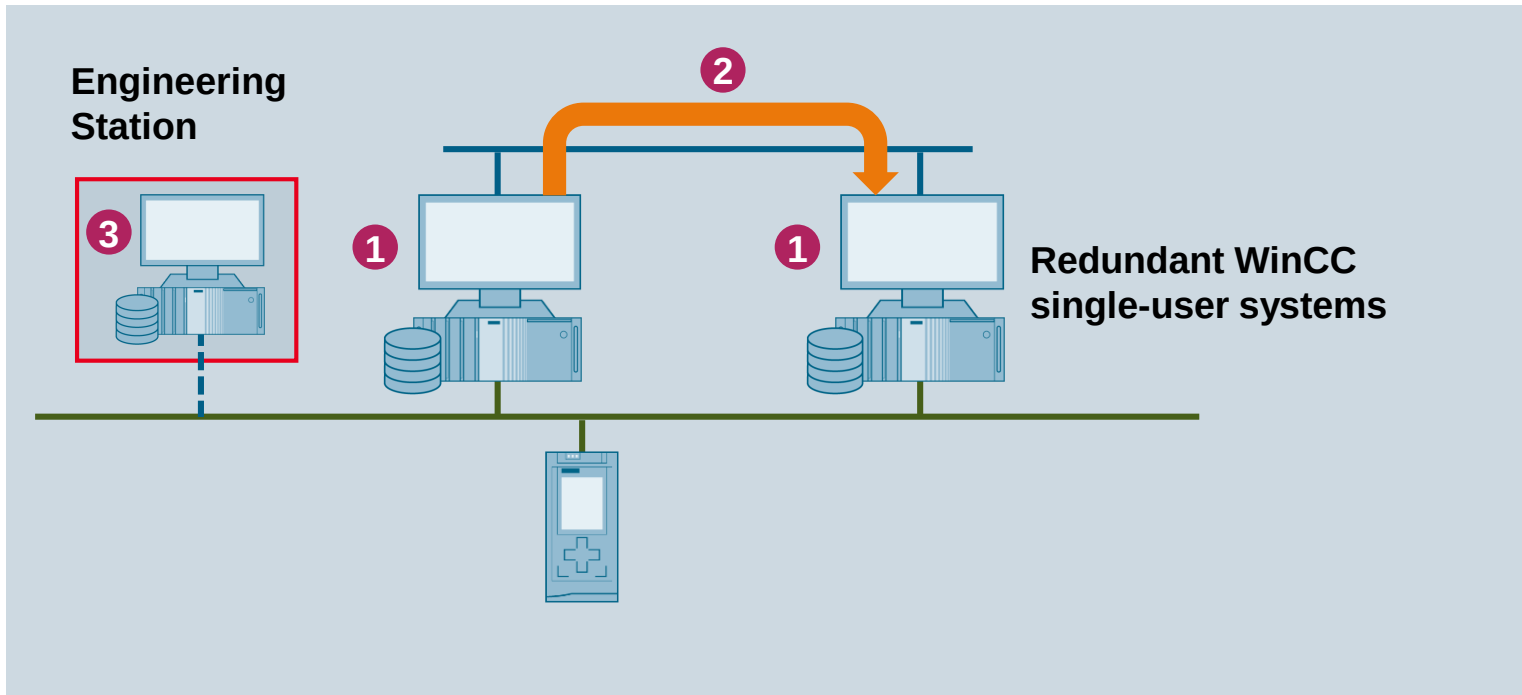
## 3 WinCC Engineering

- 512 PowerTags
- 4096 PowerTags
- max PowerTags

### Additional information

- The two stations run in parallel (both are connected to the process). In the event of a fault
- in one of the two WinCC stations, the other takes over the archiving of messages, and the process/user data (recipe). Automatic synchronization of all archives
- after restoration of the normal operating state.

# Redundant Single-User Systems Engineering station



## 1 Base Package

WinCC RT Prof n  
SIMATIC Net V16

## 2 WinCC Redundancy

MLFB: 6AV2107-0FB00-0BB0

## 3 WinCC Engineering

- 512 PowerTags
- 4096 PowerTags
- max PowerTags

### IMPORTANT

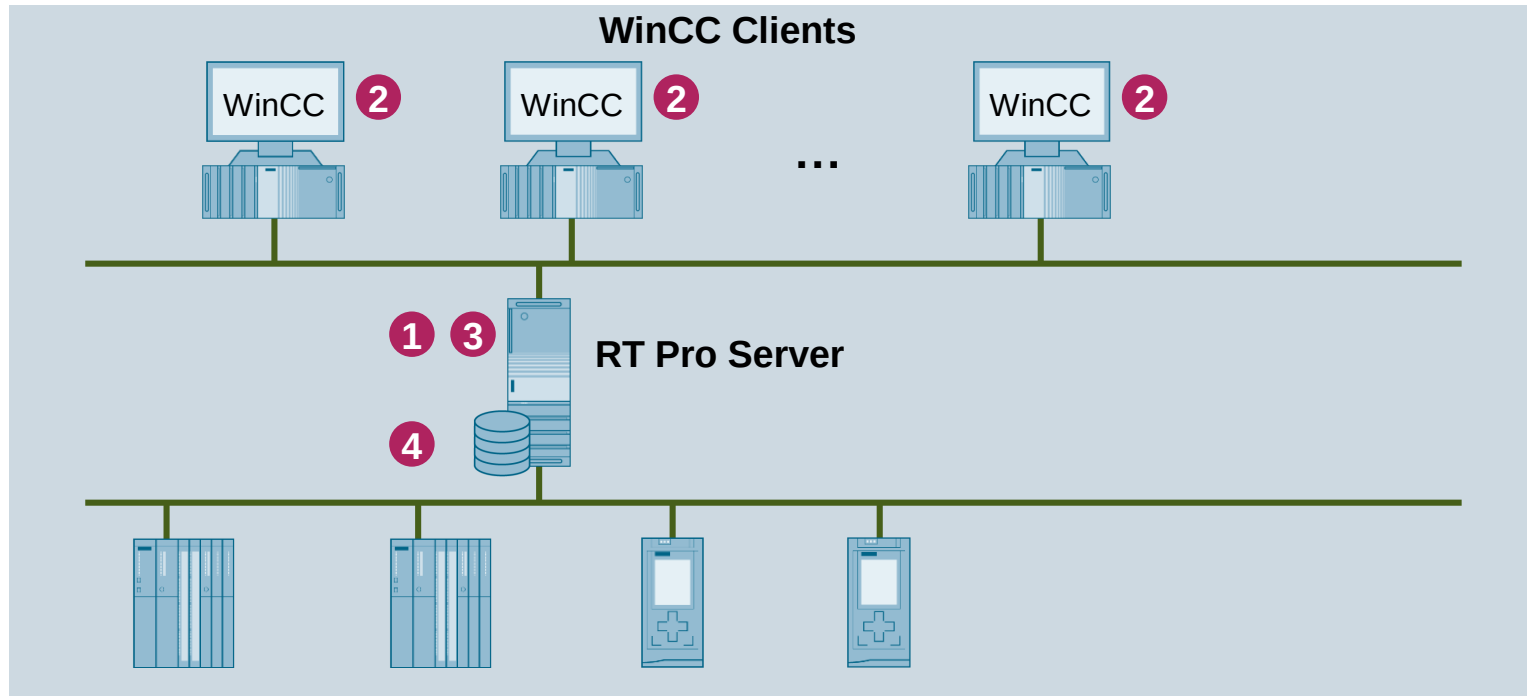
Changes can be made in the two WinCC servers via the engineering station.

The requirement for this is that the engineering station must be configured, for example, with:

- WinCC Prof V16 or
- WinCC Prof V16 + STEP 7 Basic V16 (S7-1200) or STEP 7 Prof V16 (S7-1500)

# WinCC Recipes

## Recipe management



With WinCC Recipes, the user can manage his archives in tabular form,  
E. g.: Recipe management – managing the batch parameters, ...  
The recipe license is located on the server.

### 1 Base Package

WinCC RT Prof  
SIMATIC Net V16

### 2 WinCC Client

MLFB: 6AV2107-0DB06-0AA0

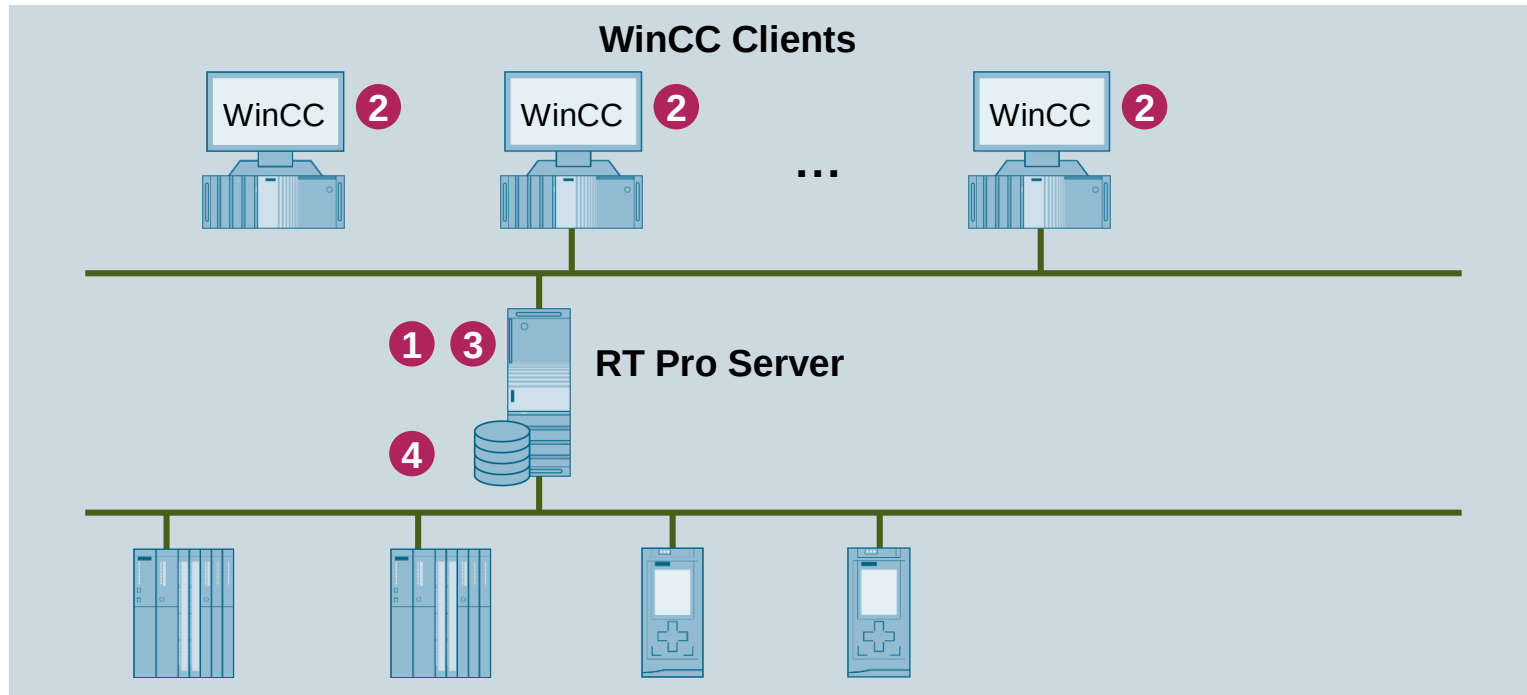
### 3 WinCC Server

MLFB: 6AV2107-0EB00-0BB0

### 4 WinCC Recipes

MLFB: 6AV2107-0JB00-0BH0

# WinCC Logging Archive tags



## The number of the archive tags can be increased with WinCC Logging. (countable licenses)

- The license for 500 archive tags is included in the basic package.
- The logging license is located on the server.
- With a license for 1500 archive tags and the basic license for 500 archive tags, you then have 2000 archive tags at your disposal

### 1 Base Package

**WinCC RT Prof  
SIMATIC Net V16**

### 2 WinCC Client

MLFB: 6AV2107-0DB06-0AA0

### 3 WinCC Server

MLFB: 6AV2107-0EB00-0BB0

### 4 WinCC Logging

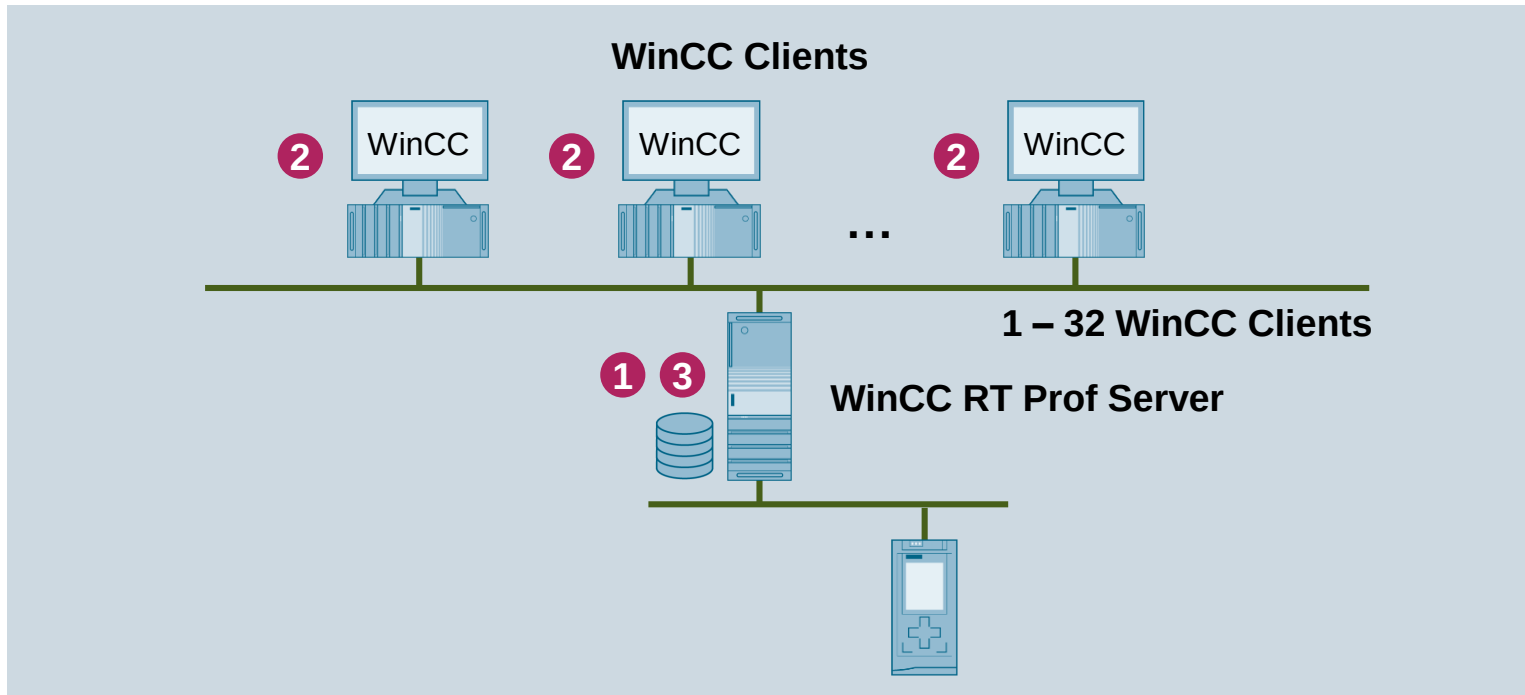
e. g.: 1500 archive tags

MLFB: 6AV2107-0GB00-0BB0

e. g.: 5000 archive tags

MLFB: 6AV2107-0GD00-0BB0

# Multi-user systems – central server with operating and monitoring stations: Only standard client



## Please note

A standard client does not have a WinCC project. It is connected to a specific server from which it receives data and views.

### 1 Base Package

WinCC RT Prof n  
SIMATIC Net V16

### 2 WinCC Client

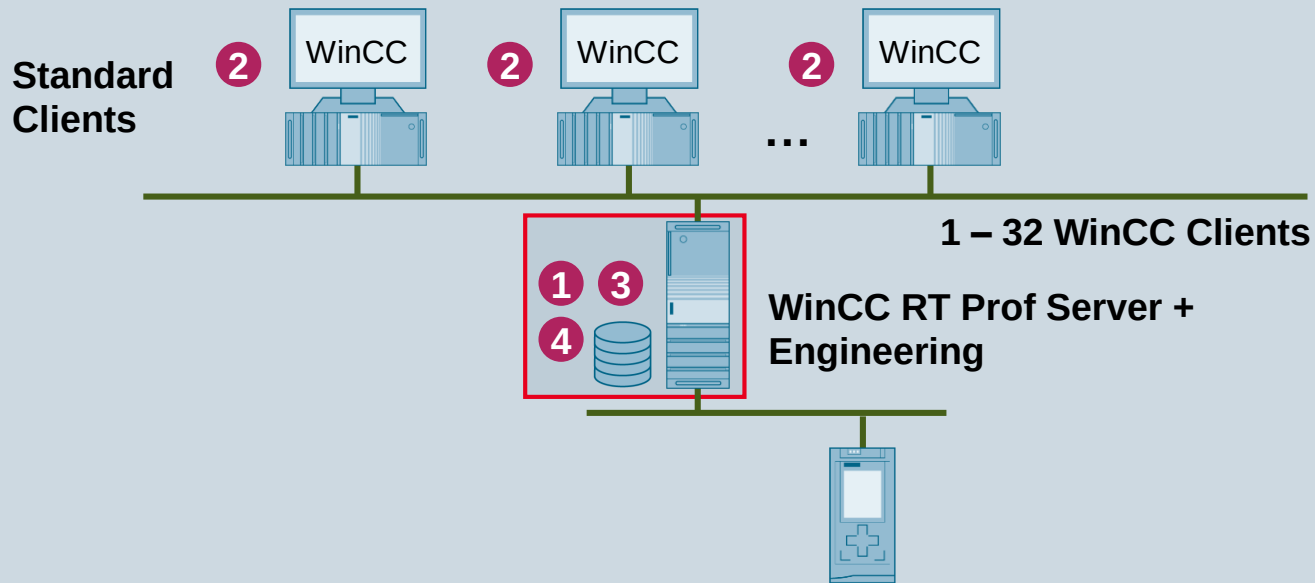
MLFB: 6AV2107-0DB06-0AA0

### 3 WinCC Server

MLFB: 6AV2107-0EB00-0BB0

# Multi-user systems with standard clients – Engineering Scenario 1 – Development on the server

Case 1: The engineering license is located on the server. Changes to the project are made directly on the server.



To be observed – Differences compared to the preceding scenario:  
An engineering license is also required on the server.  
TIA is possible (i.e. STEP 7 can be installed on the server.)

In the event of changes, it may be necessary to shut down the server.

## 1 Base Package

WinCC RT Prof n  
SIMATIC Net V16

## 2 WinCC Client

MLFB: 6AV2107-0DB06-0AA0

## 3 WinCC Server

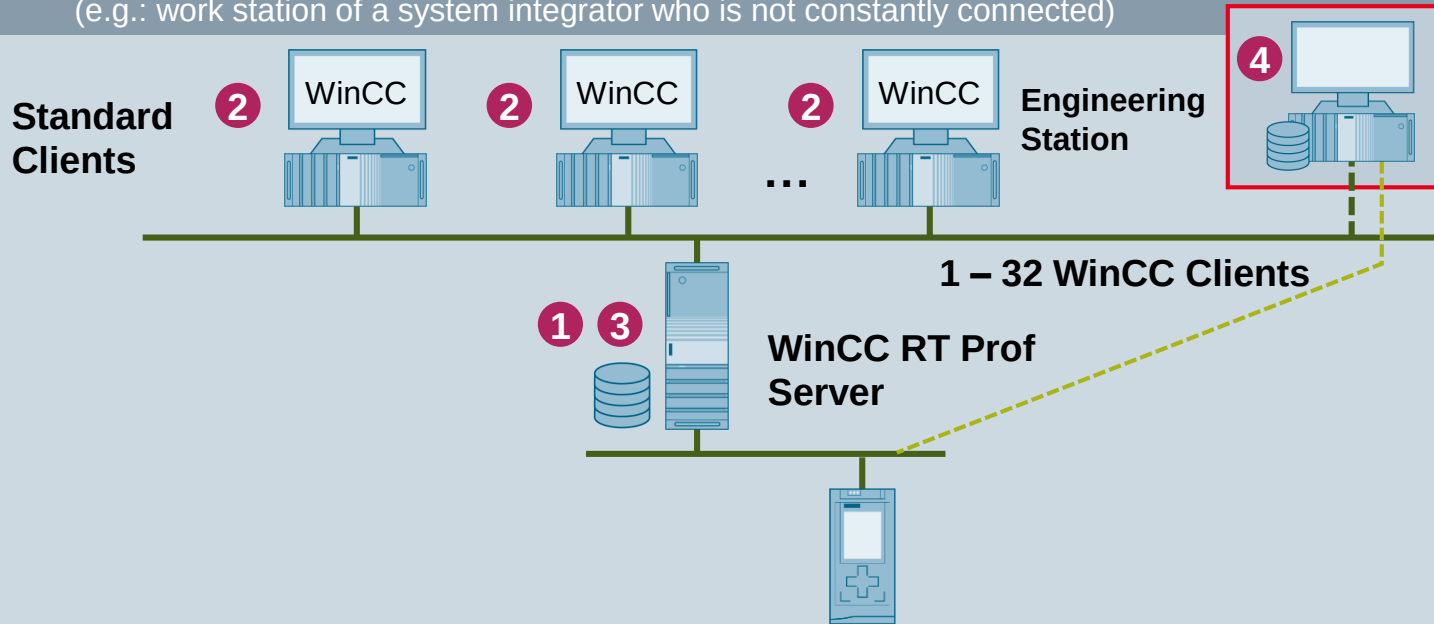
MLFB: 6AV2107-0EB00-0BB0

## 4 WinCC Engineering

- 512 PowerTags
- 4096 PowerTags
- max PowerTags

# Multi-user systems with standard clients – Engineering Scenario 2 – Engineering station

Case 2: Changes are made on an in-house engineering station  
(e.g.: work station of a system integrator who is not constantly connected)



## IMPORTANT

Changes can be made on the WinCC server via the engineering station.  
The requirement for this is that the engineering station must be configured.

### 1 Base Package

WinCC RT Prof n  
SIMATIC Net V16

### 2 WinCC Client

MLFB: 6AV2107-0DB06-0AA0

### 3 WinCC Server

MLFB: 6AV2107-0EB00-0BB0

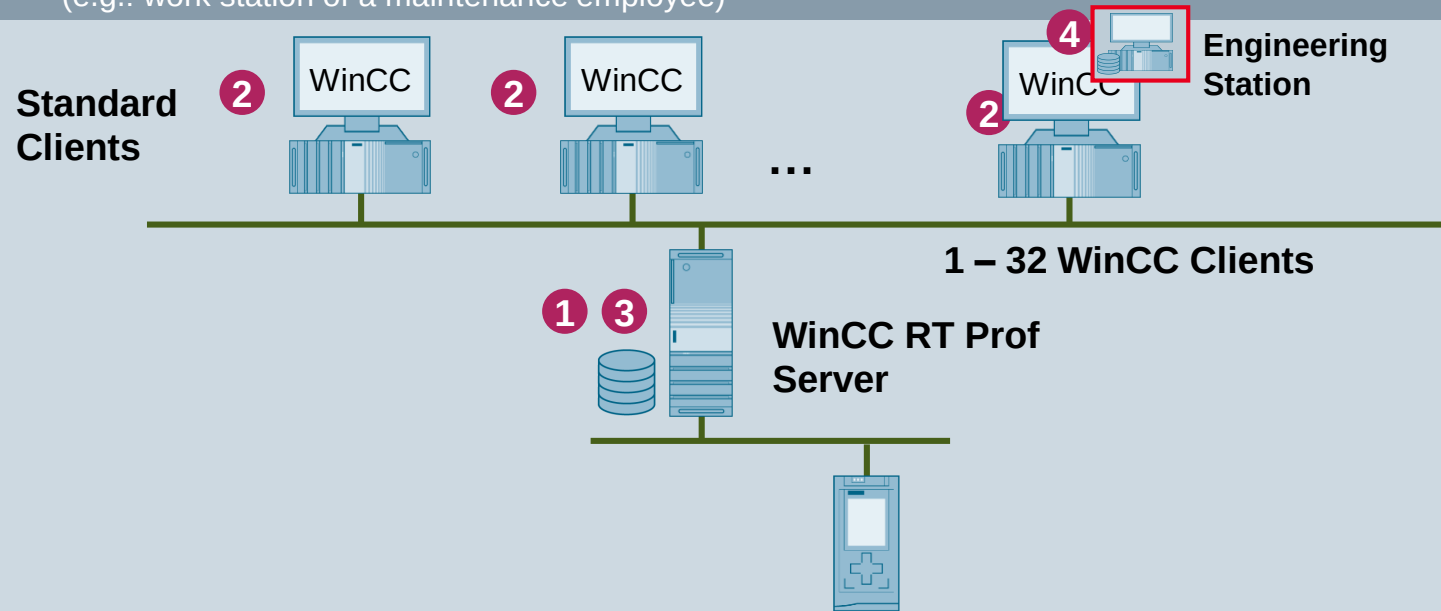
### 4 WinCC Engineering

- 512 PowerTags
- 4096 PowerTags
- max PowerTags



# Multi-user systems with standard clients – Engineering Scenario 3 – Engineering station on a client

Case 3: Changes are made on an engineering station that is running on a client  
(e.g.: work station of a maintenance employee)



## IMPORTANT

Changes can be made on the WinCC server via the engineering station.  
The requirement for this is that the engineering station must be configured.

### 1 Base Package

WinCC RT Prof n  
SIMATIC Net V16

### 2 WinCC Client

MLFB: 6AV2107-0DB06-0AA0

### 3 WinCC Server

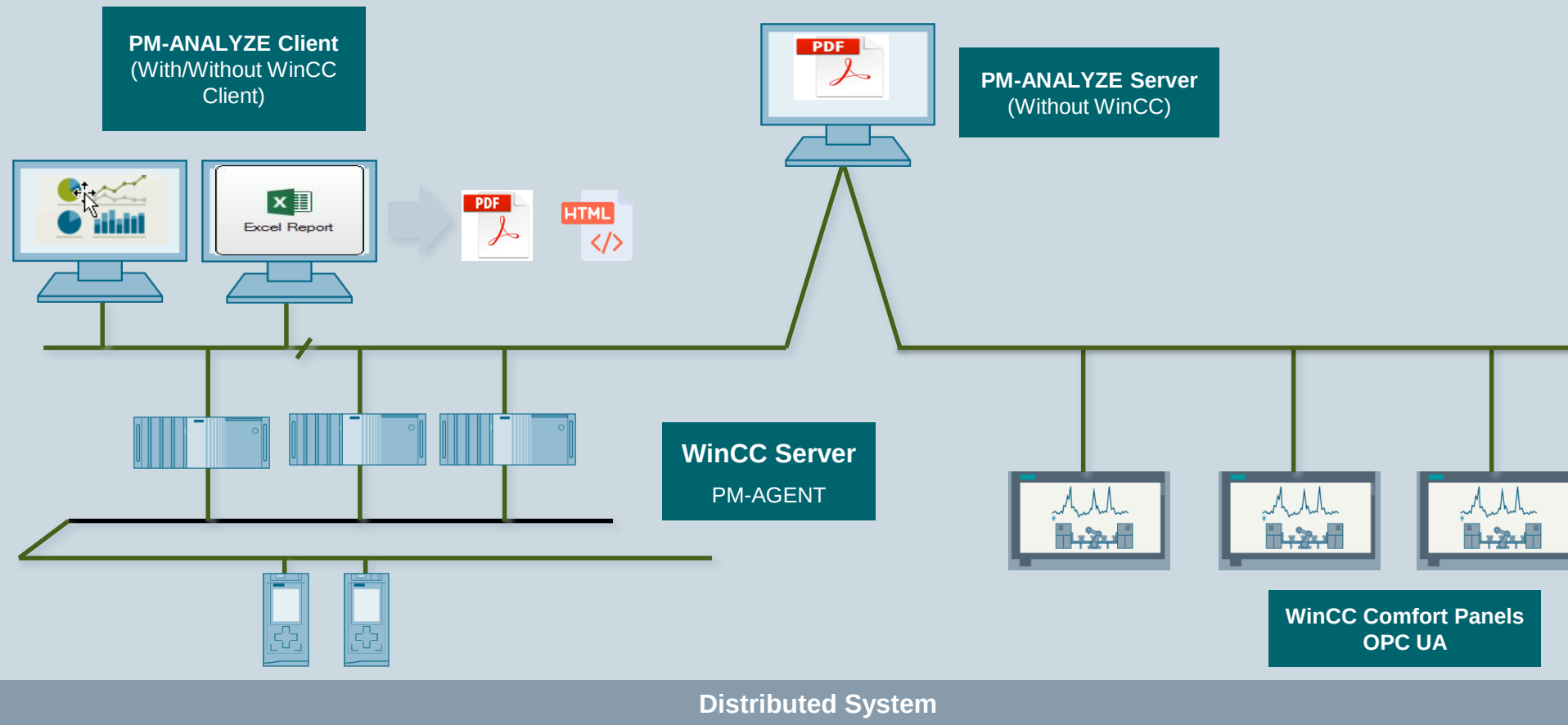
MLFB: 6AV2107-0EB00-0BB0

### 4 WinCC Engineering

WinCC Prof (512 / 4096 / max )

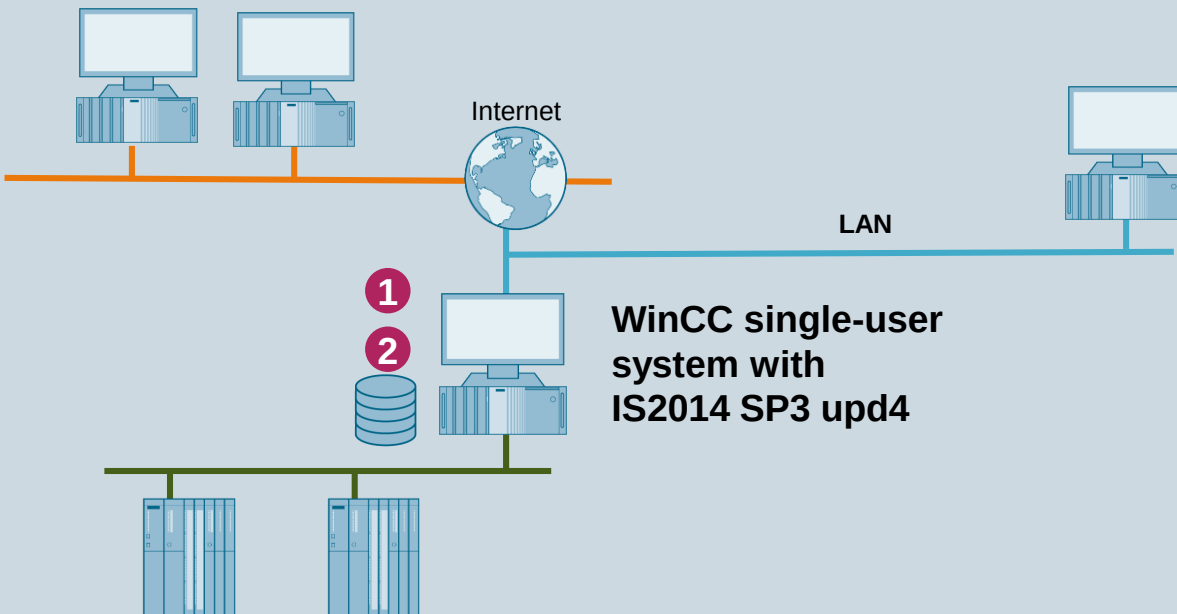
# Analysis + Reporting with PM-ANALYZE Installation Variants

\*Installation on a separate server requires a Microsoft SQL Server 2008, 2014, 2016 (32/64).



# SIMATIC Information Server – Reporting System in the web

PC with reporting with dashboards on  
HTML5-capable browser or via Office (Microsoft Excel, Word, PowerPoint)



## Additional Information

Standard and user-specific reports (via Report Builder of MS SQL Reporting Services)  
Transparent access to WinCC-Archive in Excel and Word (2007, 2010, 2013 and 2016).

### 1 Base Package

WinCC RT Prof n  
SIMATIC Net V16

### 2 WinCC IS 2014 SP3 upd4 Base Package

MLFB: 6AV6361-2AA01-4AA0

The base package contains:

- 1 x data source access  
(connection with a WinCC database)
- 3 x client access  
(three simultaneous client accesses)

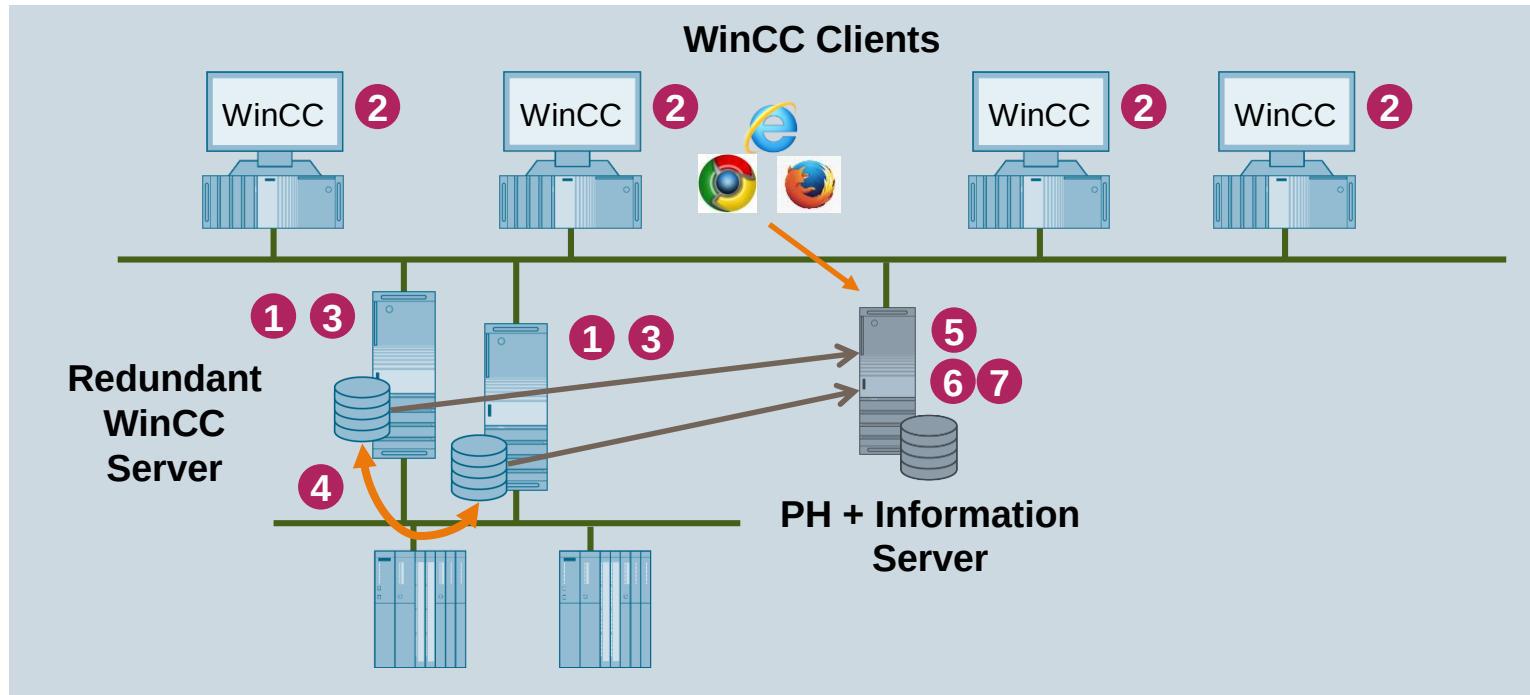
Note:

Information Server 2014 SP3 upd4

is compatible with

- WinCC RT Prof V13 SP1 or higher
- WinCC 7.0 SP3 or higher
- WinCC OA 3.14 or higher
- SIMATIC Process Historian 2014 SP2

# SIMATIC Information Server – Reporting system in the web



## Additional Information

PH and Information Server can be installed on the same computer.  
If IS is connected to PH, no "IS DataSource Access" license is needed.

### 1 Base Package

WinCC RT Prof n  
SIMATIC Net V16

### 2 WinCC Client

MLFB: 6AV2107-0DB06-0AA0

### 3 WinCC Server

MLFB: 6AV2107-0EB00-0BB0

### 4 WinCC Redundancy

MLFB: 6AV2107-0FB00-0BB0

### 5 Process Historian 2014 SP3 upd4

MLFB: 6AV6361-1AA01-4AA0

### 6 WinCC IS 2014SP3 Base Package

MLFB: 6AV6361-2AA01-4AA0

### 7 WinCC IS Client Access (1)

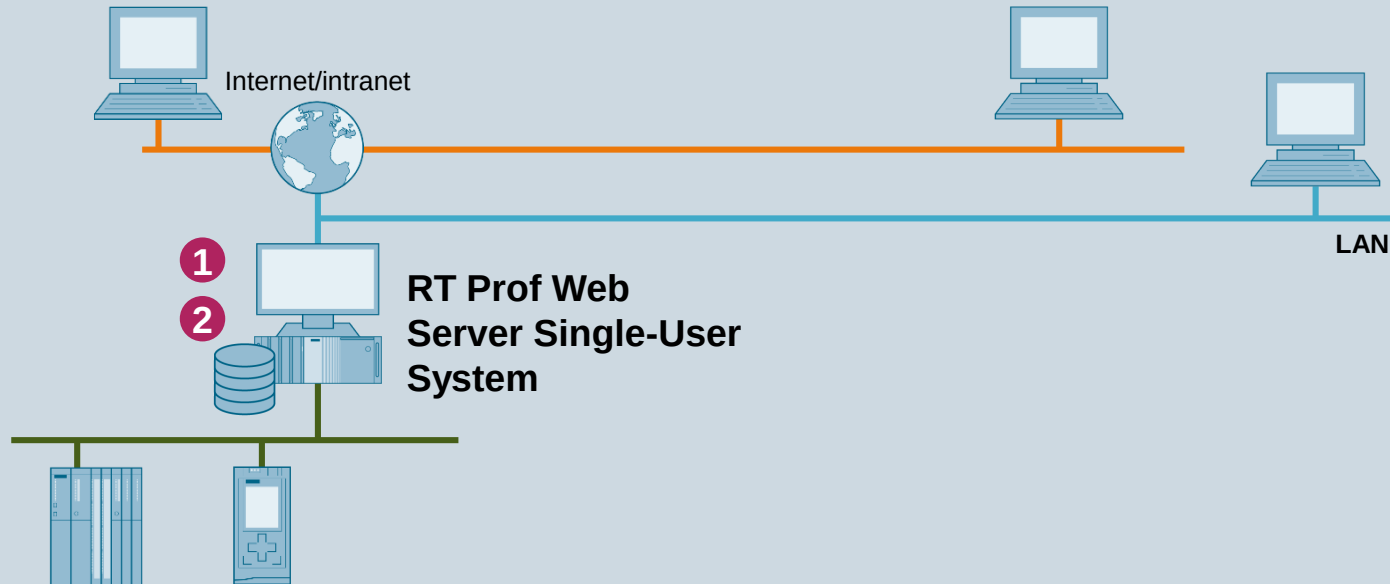
MLFB: 6AV6361-2BD00-0AD0

# Single-User Web Server

## Remote web client on the Internet/intranet

With Internet Explorer or WinCC ViewerRT

1 – 100 Web Clients



### 1 Base Package

WinCC RT Prof n  
SIMATIC Net V16

### 2 WinCC WebNavigator

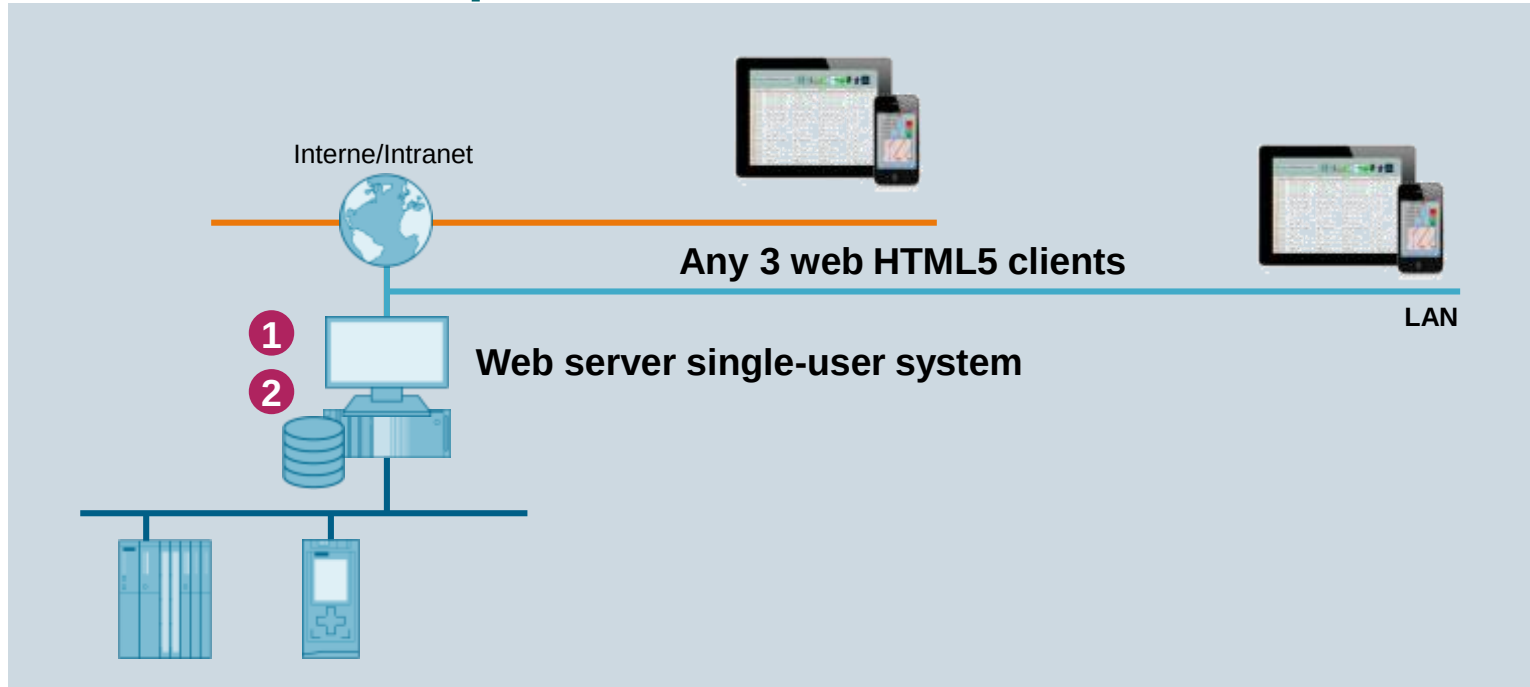
z. B.: for three clients  
MLFB: 6AV6362-1AD00-0BB0

## Additional Information

WinCC/WebNavigator allows operator control and monitoring from a remote operator station via a local intranet or the Internet.

In each case, a web license for n clients allows a simultaneous connection with the WinCC web server for these n clients

# Single-user web server with HTML5 web clients: WebUX allows remote web client on the internet/intranet via tablets/smartphones



## 1 Base Package

WinCC RT Prof n  
SIMATIC Net V16

## 2 WinCC WebUX

e.g.: for 3 clients  
MLFB: 6AV6362-2BD00-0BB0

### Additional information

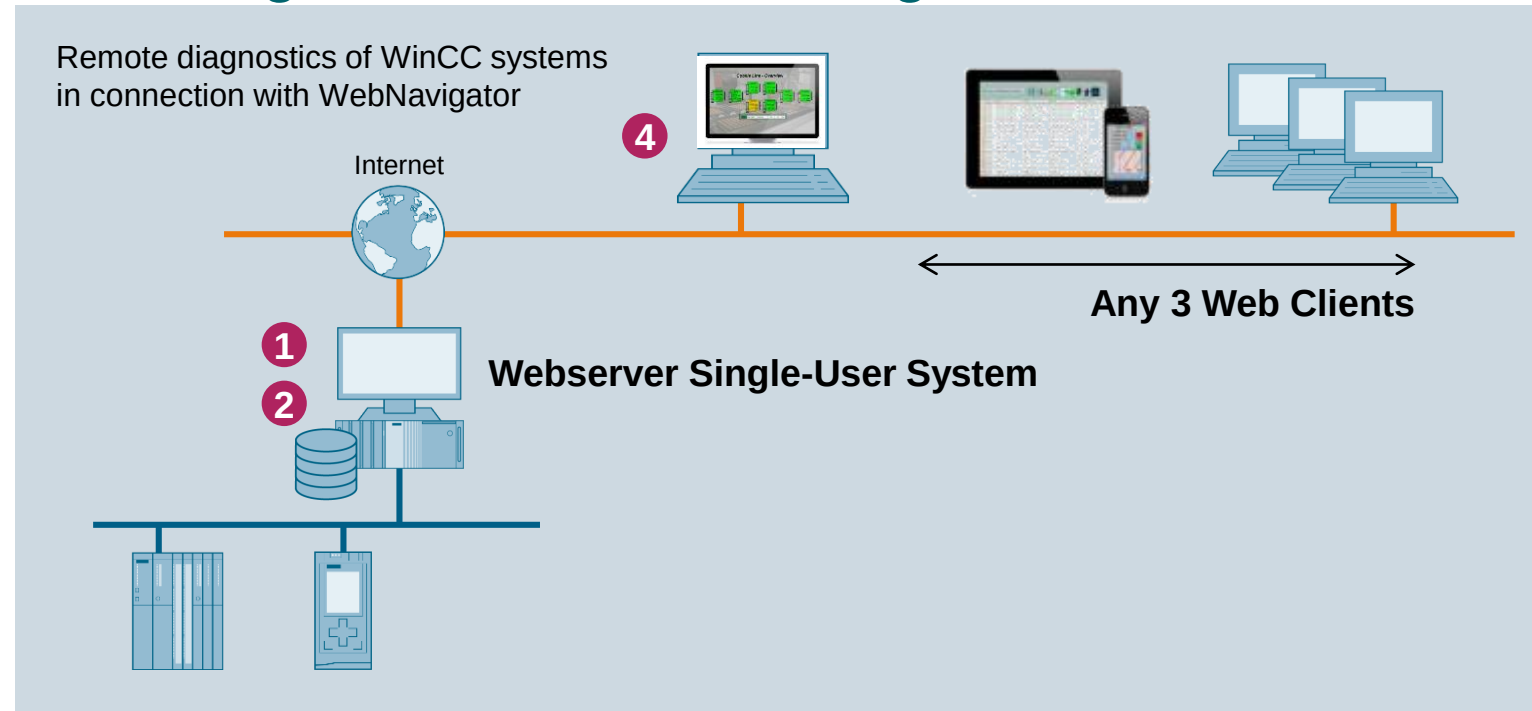
In this case, three clients HTML5 can access to the WebUX server without any installation from the client side.

WebUX is based on a secure connection and needs a certificate.

Note: The security certificate must be renewed after one year.

Because of some limitations in comparison to WebNavigator, please verify that WebUX is suitable for the required operations.

# Remote diagnostics of WinCC systems in connection with WebNavigator / WebUX - Combined licenses for WebNavigator / WebUX and Diagnostic Client



## Additional Information

The WebNavigator license can allow the access even from WebUX HTML5 clients combined to WebNavigator desktop clients.  
In this case, a WebNavigator license for three clients allows connection from any three WebNavigator/WebUX clients, depending on the configuration.

### 1 Base Package

WinCC RT Prof n  
SIMATIC Net V16

### 2 WinCC WebNavigator

e. g.: for three Clients  
MLFB: 6AV6362-1AD00-0BB0

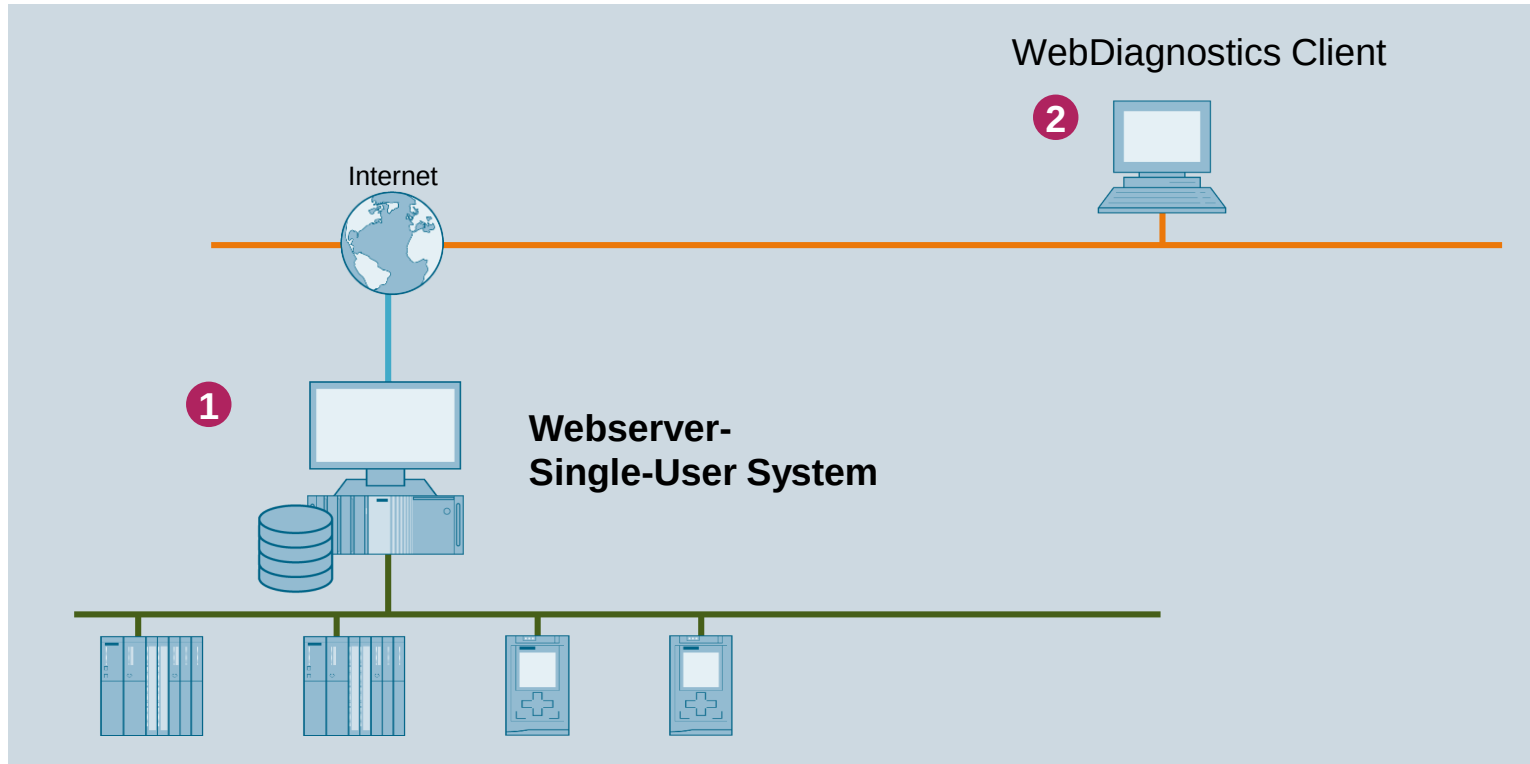
### 3 WinCC WebUX

e. g.: WebUX Operate 3 Clients  
MLFB: 6AV6362-2BD00-0BB0

### 4 WinCC WebDiagnostics Client

MLFB: 6AV6362-1BA00-0BB0

# Web server single-user system – Special case with only one web connection (WebNavigator Diagnostics)



## 1 Base Package

WinCC RT Prof n  
SIMATIC Net V16

## 2 WinCC WebDiagnostics Client

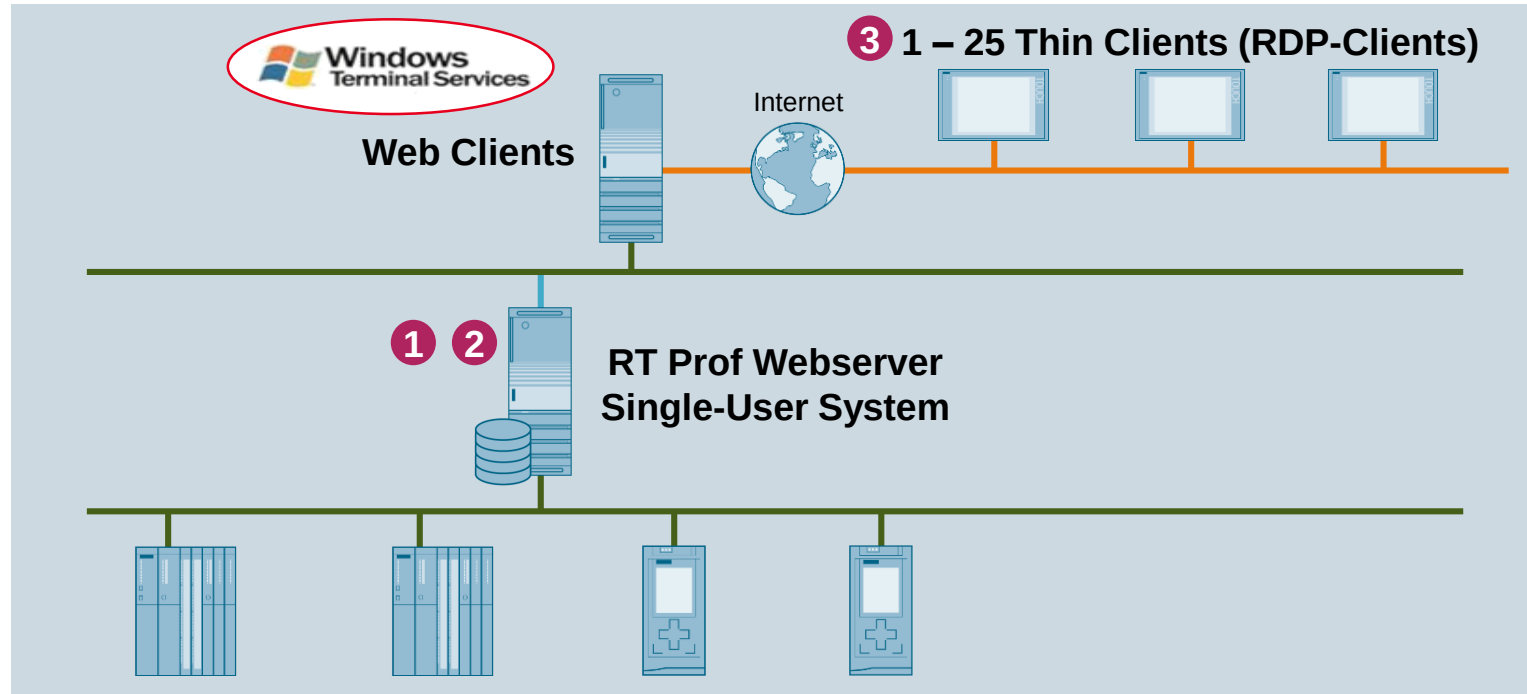
MLFB: 6AV6362-1BA00-0BB0

### Additional Information

In contrast to the preceding case, the license is installed on a web client.  
Thus, no license is necessary on the server(s) for this client.  
Several diagnostic clients can be connected to a diagnostics server



# Web-Solution 1: Web Solution based on (RDP-Clients) on Industrial Thin Client V3



With the services of the Windows Terminal Server, the functionalities of the WebNavigator can be used for thin clients (limited resources and operating system not supported by WinCC) Example: SIMATIC Thin Client  
The ITC V3 supports the protocols RDP, VNC and Sm@rtserver

<https://support.industry.siemens.com/cs/ww/en/view/109758315>

## 1 Base Package

WinCC RT Prof n  
SIMATIC Net V16

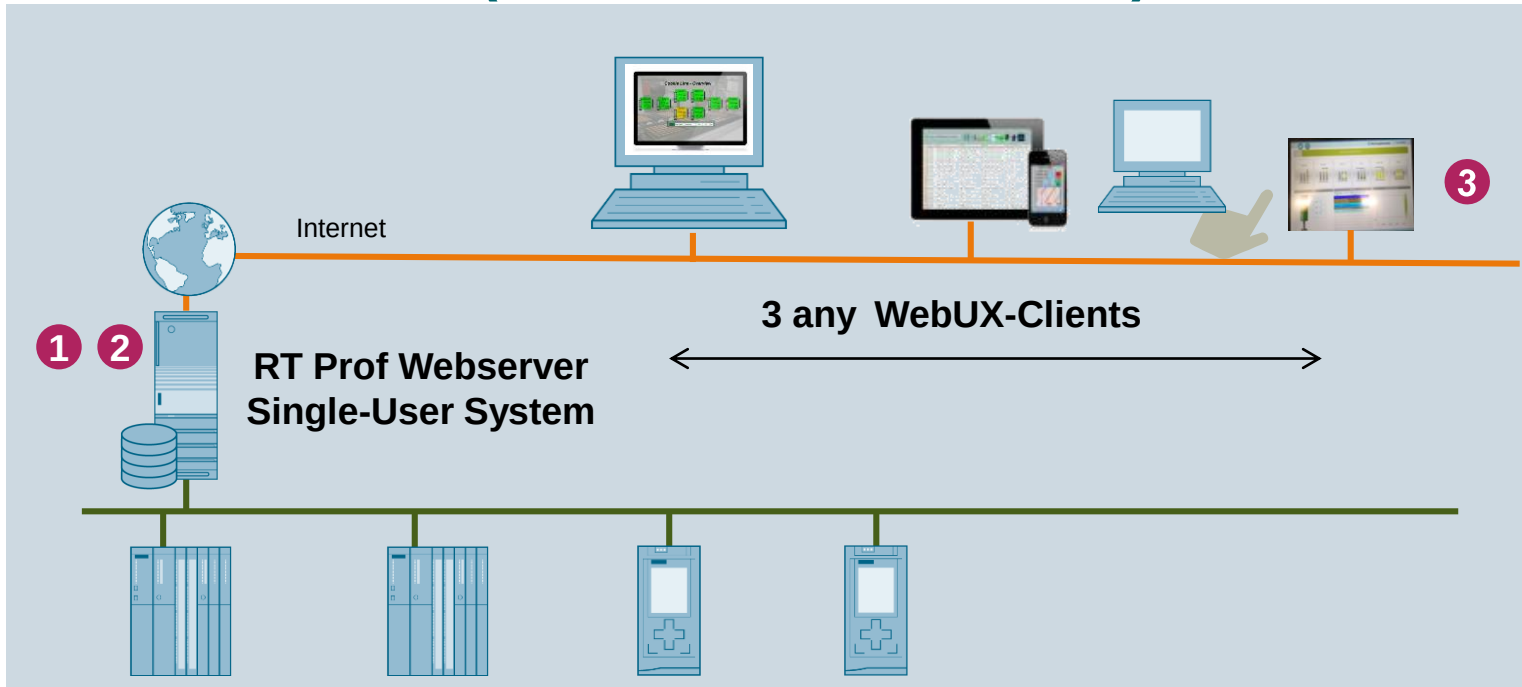
## 2 WinCC WebNavigator

e. g.: for 10 Clients  
MLFB: 6AV6362-1AF00-0BB0

## 3 Thin Client V3 / Thin Client V3 PRO

|                    |                    |
|--------------------|--------------------|
| 6AV6646-1BA15-0AA0 | SIMATIC ITC1500 V3 |
| 6AV6646-1BA15-0NA0 | SIMATIC ITC1500 V3 |
| 6AV6646-1BA18-0AA0 | SIMATIC ITC1900 V3 |
| 6AV6646-1BA18-0NA0 | SIMATIC ITC1900 V3 |
| 6AV6646-1BA22-1AA0 | SIMATIC ITC2200 V3 |
| 6AV6646-1BA22-1NA0 | SIMATIC ITC2200 V3 |

## Web Solution 2: Operator control and monitoring of WinCC systems with HTML 5 browser (Tablet / PC / WebPanel)



### Additional Information

**WebPanel** (Linux based software )

Integrated current **Chromium Browser v66** (perfect for WebUX)

The IWP software supports different hardware architect (Basic Panels / ITC /IPC

### 1 Base Package

**WinCC RT Prof n**  
**SIMATIC Net V16**

### 2 WinCC WebUX

e. g.: for 10 Clients  
MLFB: **6AV6362-1AF00-0BB0**

### 3 WebPanel

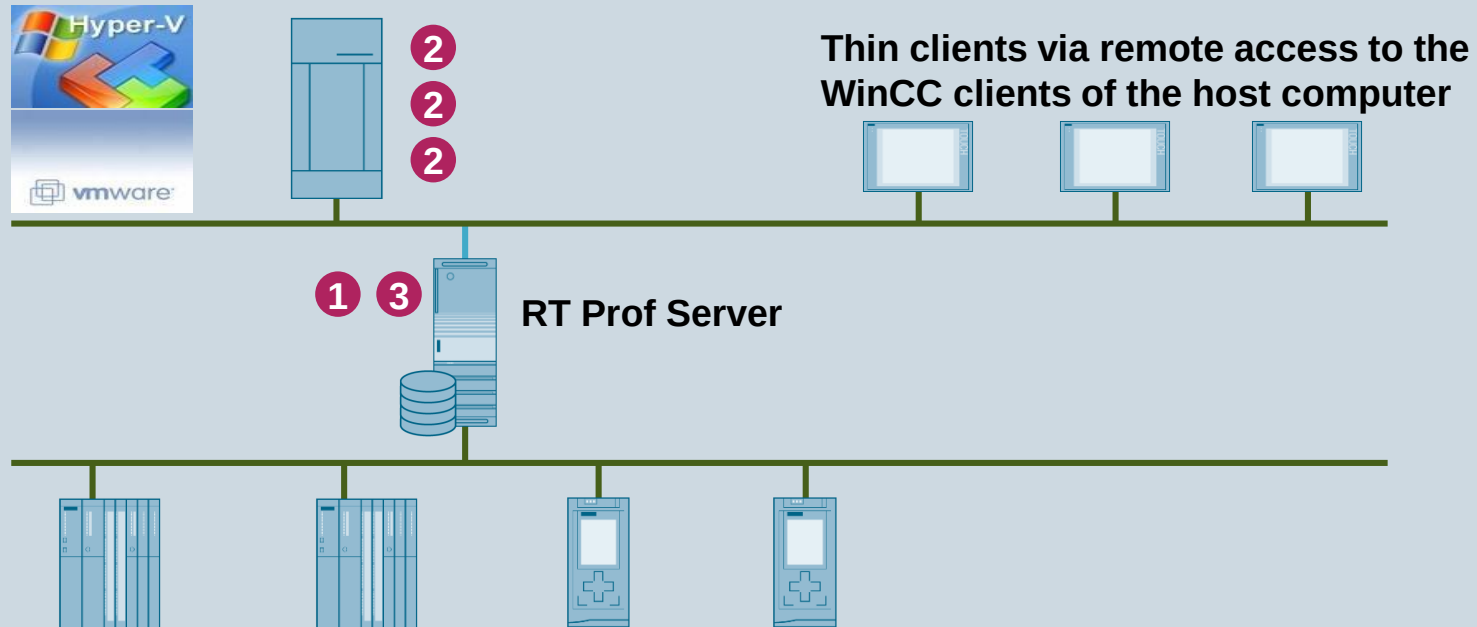
#### Attention:

**Standard ThinClient V3 uses a Mozilla Firefox browser that is not optimal for WebUX**

**Please order the new WebPanel based on Thin Client V3 with the new Google Chrome browser**

# Virtualization for WinCC clients and/or server

## Example: Virtual WinCC clients on Hypervisor



WinCC clients run with the Hypervisor system.

WinCC servers can also be operated using the Hypervisor system.

The maximum number of clients that the virtualization server can host depends on the physical resources of the host computer

- RAM, SSD
- CPU, Number of Core

### 1 Base Package

WinCC RT Prof n  
SIMATIC Net V16

### 2 WinCC Client

MLFB: 6AV2107-0DB06-0AA0

### 3 WinCC Server

MLFB: 6AV2107-0EB00-0BB0

# Functional differences between WinCC RT Professional V16 and WinCC 7.5 SP1

| Functions                                         | WinCC RT Professional V16                                                                                                       | WinCC V7.5 SP1                                                                             |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>PowerTags</b>                                  | ES: 512, 4k, max.<br>RT: 128, 512, 2k, 4k, 8k, 64k, 100K, 150K, 265k                                                            | RC: 128, 512, 2k, 8k, 64k, 100K, 150K, 256k<br>RT: 128, 512, 2k, 8k, 64k, 100K, 150K, 265k |
| <b>Screens / screen objects</b>                   | No limit / no limit                                                                                                             | No limit / no limit                                                                        |
| <b>Alarms</b>                                     | 150,000                                                                                                                         | 150,000                                                                                    |
|                                                   | 256 alarm classes, 32 types in groups,<br>17 alarm priorities                                                                   | 256 alarm classes<br>17 alarm priorities (0 to 16)                                         |
| <b>Server/client</b>                              | 1 server / 32 clients                                                                                                           | 18 servers / 64 clients<br>50 multi-clients                                                |
| <b>Logging *)<br/>500/ 512 archive tags incl.</b> | Archive tags add. 1,500, 5,000                                                                                                  | Archive tags add. 1,500, 5,000, 10k, 30k, 80k                                              |
|                                                   | max. 80,000 (server)                                                                                                            | max. 80,000 (server)                                                                       |
| <b>Recipes **)</b>                                | Recipes: 500 /<br>Elements per recipe: 10 000                                                                                   | Recipes: No limit /<br>Elements per recipe: 100,000                                        |
| <b>WebNavigator<br/>WebUX</b>                     | 1, 3, 10, 30, 100 clients                                                                                                       | 1, 3, 10, 30, 100 clients ( in WinCC V7.3 max.150 clients)                                 |
| <b>PLC Connections</b>                            | Up to <b>128</b> connections,<br><b>-max. 128 x S7-1200 / S7-1500 Connections</b><br><b>-max. 64 x S7-300 / 400 Connections</b> | <b>128</b> x S7-1500/ <b>32</b> x S7-1200 / <b>64</b> x S7-300/400                         |

# Functional differences between WinCC RT Professional V16 and WinCC 7.5 SP1

| Communication        | WinCC Professional V16                          | WinCC V7.5 SP1                             |
|----------------------|-------------------------------------------------|--------------------------------------------|
| <b>MPI/PROFIBUS</b>  | Yes                                             | Yes                                        |
| <b>OPC UA</b>        | OPC UA Server : DA, HA, A&C (Alarm & Condition) | UA Server: DA, HA, A&C (Alarm & Condition) |
|                      | OPC UA Client: DA                               | UA Client: DA, A&C                         |
| <b>SIMOTION</b>      | <b>OPC UA</b>                                   | Yes                                        |
| <b>SINUMERIK</b>     | NO                                              | Add-on                                     |
| <b>Allen Bradley</b> | Ethernet/IP                                     | Ethernet/IP                                |
| <b>Modicon</b>       | Modbus (TCP)                                    | Modbus (TCP)                               |
| <b>Mitsubishi</b>    | MC TCP/IP                                       | i-QR PLCs                                  |
| <b>IEC Client</b>    | NO                                              | IEC 61850 (Add-on)                         |
| <b>DNP3</b>          | NO                                              | Option Telecontrol                         |
| <b>MQTT</b>          | NO                                              | WinCC Cloud Connect                        |

# SIMATIC WinCC Professional

## Hardware and software from a single source - Order Packages



### Package Runtime Licenses

|                                |                    |
|--------------------------------|--------------------|
| WinCC RT Professional Client   | 6AV2117-2DB06-0AA0 |
| WinCC RT Professional 128 PT   | 6AV2115-2BA06-0AA0 |
| WinCC RT Professional 512 PT   | 6AV2115-2DA06-0AA0 |
| WinCC RT Professional 2048 PT  | 6AV2115-2FA06-0AA0 |
| WinCC RT Professional 4096 PT  | 6AV2115-2HA06-0AA0 |
| WinCC RT Professional 8192 PT  | 6AV2115-2KA06-0AA0 |
| WinCC RT Professional 65536 PT | 6AV2115-2MA06-0AA0 |

### Available SIMATIC IPC

All SIMATIC IPC  
Box, Panel, Rack PCs

IPC227D and IPC277D

**Up to 30% price advantage**  
(vs. regular WinCC list price)

**Available packages for SIMATIC IPC**  
[SIOS - IPC Packages](#)

**Only if ordered simultaneously with the SIMATIC IPC.**  
**Please always observe the operating system requirements of the WinCC system.**

# Promoter selection help – Software packages for SIMATIC IPCs

[Additional information](#)

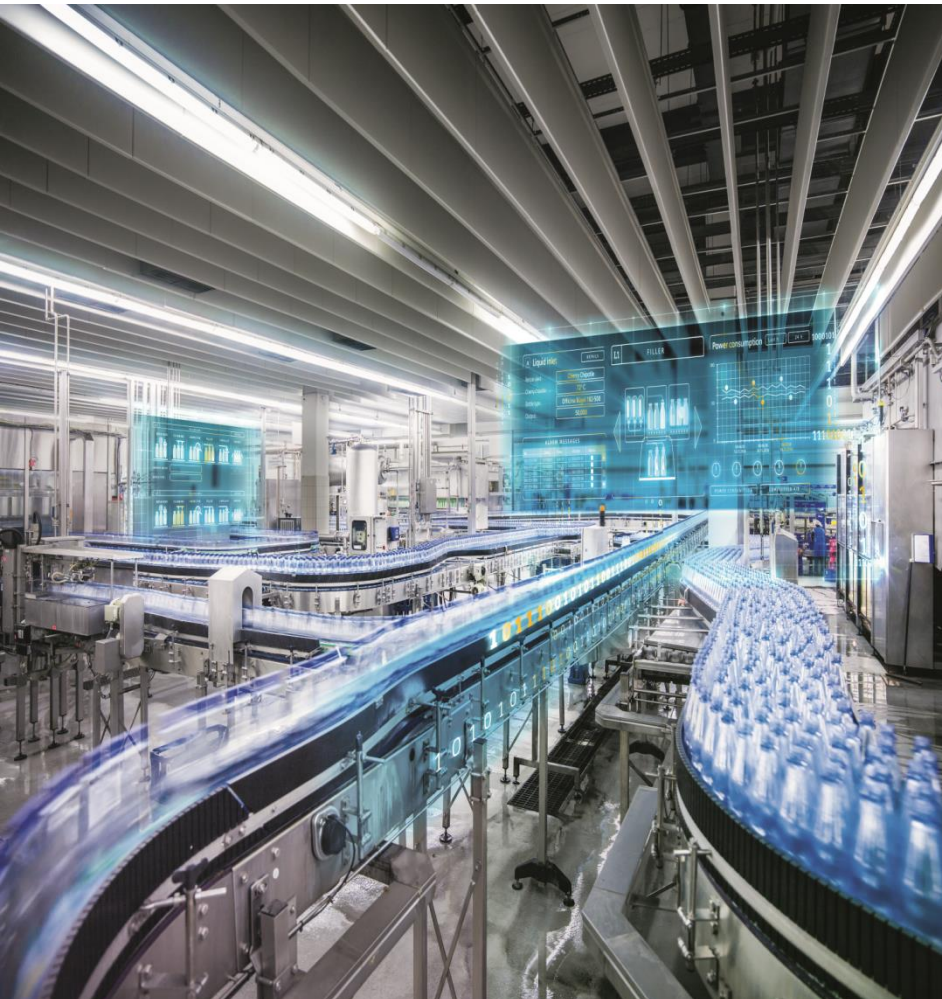
|               |                                                                                     | WinCC flexible RT | WinCC RT Advanced | WinCC RT Professional | WinCC V7.x |
|---------------|-------------------------------------------------------------------------------------|-------------------|-------------------|-----------------------|------------|
| 2x7D/E        |    | ✓                 | ✓                 | client ✓              | client ✓   |
| 4x7D          |    | ✓                 | ✓                 | ✓                     | ✓          |
| 6x7 / 8x7 C/E |    | ✓                 | ✓                 | ✓                     | ✓          |
| 647 / 847 C/D |    | ✓                 | ✓                 | ✓                     | ✓          |
| 547E/G        |  | ✓                 | ✓                 | ✓                     | ✓          |
| 347E          |  | ✓                 | ✓                 | ✓                     | ✓          |

# Promoter selection help – Software packages for SIMATIC IPCs

[Additional information](#)

|                |                                                                                     | WinCC flexible RT | WinCC RT Advanced | WinCC RT Professional | WinCC V7.x |                                 |
|----------------|-------------------------------------------------------------------------------------|-------------------|-------------------|-----------------------|------------|---------------------------------|
| 2x7E           |    | ✓                 | ✓                 | ✗                     | ✓          |                                 |
| 377E           |    | ✓                 | ✓                 | client ✓              | client ✓   |                                 |
| ITP1000        |    | ✓                 | ✓                 | ✓                     | ✓          |                                 |
| 647 / 847C/D/E |   |                   |                   | ✓                     | ✓          |                                 |
| 127E           |  |                   |                   | ✓                     | ?          | (Worked, but not system tested) |





Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

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