

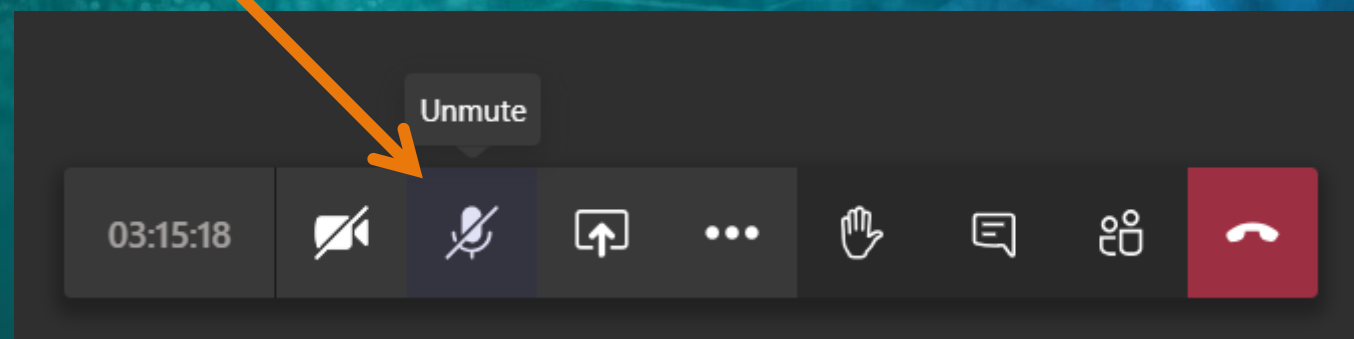
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Factory Automation

Svibanj 2020.

Klik na
mikrofon



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Razvojni alat, softver

WinCC



Basic Panels



Comfort Panel



Mobile Panel



Panel PC



Runtime Professional

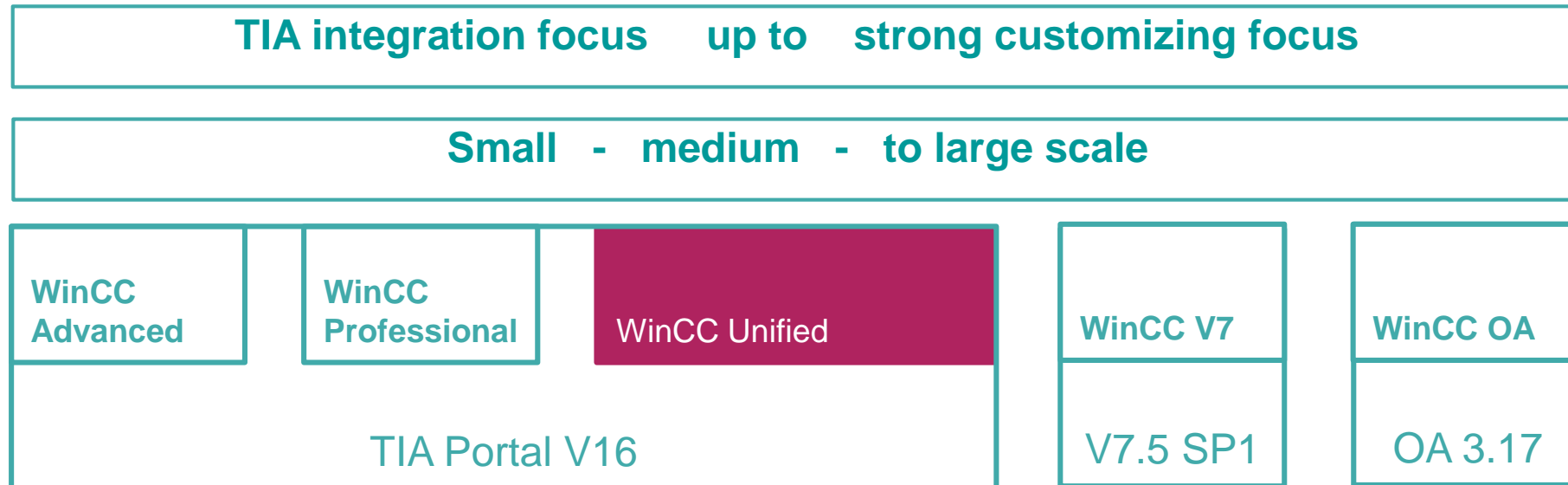
WinCC Professional

WinCC Advanced

WinCC Comfort

WinCC Basic

PC-based Systems HMI incl. SCADA Portfolio



WinCC Unified will expand over the next years in parallel.
In the long-term, the HMI & SCADA Portfolio in TIA Portal will be based on WinCC Unified.

Human Machine Interface is changing...

Decimal			Binary		
Value	Metric		Value	IEC	JEDEC
1	B	byte	1	B	byte
1000	kB	kilobyte	1024	KiB	kibibyte
1000 ²	MB	megabyte	1024 ²	MiB	mebibyte
1000 ³	GB	gigabyte	1024 ³	GiB	gibibyte
1000 ⁴	TB	terabyte	1024 ⁴	TiB	tebibyte
1000 ⁵	PB	petabyte	1024 ⁵	PiB	pebibyte
1000 ⁶	EB	<u>exabyte</u>	1024 ⁶	EiB	exbibyte
1000 ⁷	ZB	zettabyte	1024 ⁷	ZiB	zebibyte
1000 ⁸	YB	yottabyte	1024 ⁸	YiB	yobibyte



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** Openness Plant Intelligence

Everywhere Access

Engineering Automation One Engineering **Data Backbone** HTML5

On Premise IT-Integration Edge computing Connectivity Usability

Digitalization **Cloud Connectivity**

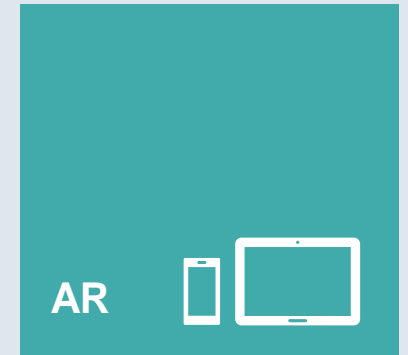
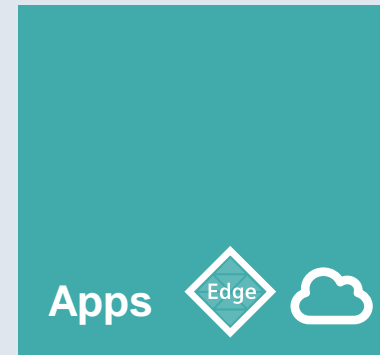
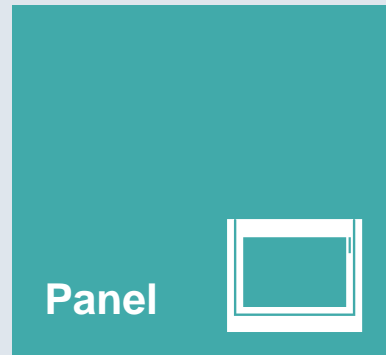
— ”

These topics define the requirements for the HMI systems of the next decade.

One engineering in TIA Portal to cover all use cases



WinCC
Unified

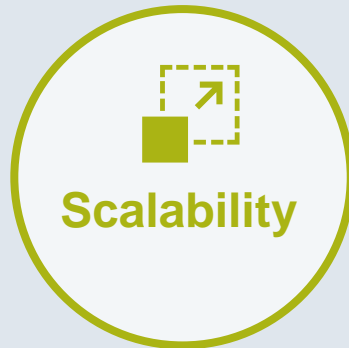


WinCC Unified is fit for today's HMI and SCADA applications, but also ready for future scenarios in the digitization context (e.g. Augmented Reality or Edge technologies).

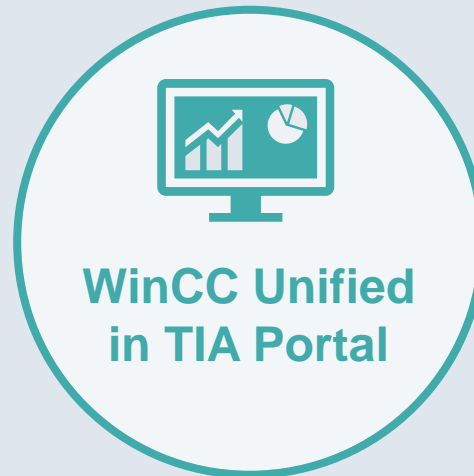
We meet these requirements with the new WinCC Unified system!



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



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



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



- Basis for Digitalization
- Plant Intelligence
- Integration Platform for everything north of the PLC
- Openness

WinCC Unified V16

Plant Intelligence Options

Plant Intelligence Options	Description	Unified Comfort Panels	Unified PC Runtime
Calendar ¹	Calendar-based administration of events and schedules	✗	✓
Performance Insight ¹	Visualization and analysis of asset performance with KPIs and time/state model	✗	✓

Plant Intelligence Options	Description	Unified Comfort Panels	Unified PC Runtime
Line Coordination ¹ Q2 / 2020	Coordination and synchronization of machines/ units via recipe-controlled procedures	✗	✓
Sequence Execution ¹ Q2/2020 SSR	Flexible arrangement of automatic steps within the production process including manual interaction	✗	✓

¹ Technologischer Hierarchie is mandatory

✓ Available
 ✓ Available (limited)
 ✂ In work
 ✗ Not available



PC-based systems – Integration – Plant Intelligence Options



Plant Intelligence	WinCC RT Adv. V16	WinCC RT Prof. V16	Unified PC RT V16	WinCC V7.5 SP1	WinCC OA V3.17
Calendar	✗	✗	✓	✓	✓
Performance Calculation (OEE)	✗	✗	✓	✓	✓
Sequence Execution ¹	✗	✗	Q2 2020	✓	✗
Line Coordination	✗	✗	✓	✗	✗

¹ via special sales release

Available
 Available (limited)
 Not available
 Work in process



PC-based systems – Technology



Technology	WinCC RT Adv. V16	WinCC RT Prof. V16	Unified PC RT V16	WinCC V7.5 SP1	WinCC OA V3.17
Web (HTML5)	✗	✓	✓	✓	✓
Java Script	✗	✗	✓	✗	✓
SVG Graphics	✓	✓	✓	✓	✓
Dynamic SVG Graphics	✗	✗	✓	✓	✗

Object oriented approach	WinCC RT Adv. V16	WinCC RT Prof. V16	Unified PC RT V16	WinCC V7.5 SP1	WinCC OA V3.17
Object oriented approach	✗	✗	✓	✗	✓

Available
 Available (limited)
 Not available
 Work in process



PC-based systems – Scalability Single Station → SCADA system



Scalable SCADA Functionality	WinCC RT Adv. V16		WinCC RT Prof. V16		Unified PC RT V16		WinCC V7.5 SP1		WinCC OA V3.17	
Server/Client	Max. 16k PowerTags		1 Server max. 256k PowerTags		1 Server max. 600,000 PowerTags		Max. 18 Srv max. 256k PowerTags		Max. 2,048 Srv Unlimited PowerTags	
Native Clients			Max. 64/Srv				Max. 64/Srv		Max. 255/Srv	
Clients (Zero Inst.)			WebUX Max. 100		System tested up to max. 150		WebUX Max. 100		ULC UX	
File-based Logging	CSV/RDB SQLite				SQLite					
Databased Logging	Via odbc		Incl. MS SQL		Incl. MS SQL		Incl. MS SQL		Connect to Oracle, Influx	
Logging Tags	Incl. at option „Logging		optional up to max. 80,000		optional up to max. tags		optional up to 80,000		All included	

Available
 Available (limited)
 Not available
 Work in process



PC-based systems – Everywhere



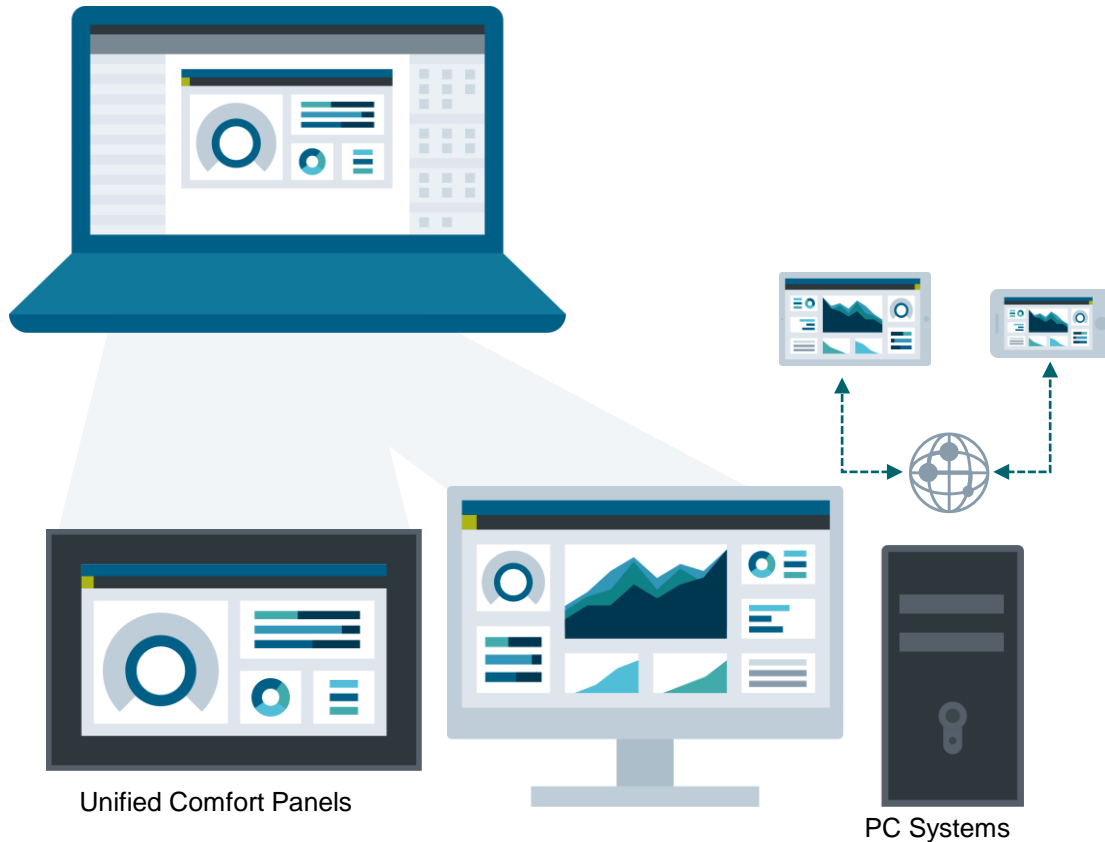
	WinCC RT Adv. V16	WinCC RT Prof. V16	Unified PC RT V16	WinCC V7.5 SP1	WinCC OA V3.17
On Premises	✓	✓	✓	✓	✓
Prepared for Cloud	✗	Private ✓	🔄	Private ✓	Private/Public ✓
Prepared for Edge	✗	✗	Industrial Edge 🔄	✗	IOT Suite ✓
Augmented Reality	✗	✗	🔄	✗	✗

✓ Available
 ✓ Available (limited)
 ✗ Not available
 🔄 Work in process

WinCC Unified V16 – User Interface Scalable for all devices

Unified Comfort Panel ✓

PC ✓



Homogeneous design, usability and functionality for Panel and PC systems

- Identical User Interface for Panel- & PC-Systems
- **Zero installation client (PC Systems)** based on native web technology
- **Homogenous engineering** of consistent visualizations, independent from technology e.g., Unified Comfort Panel or web-browser



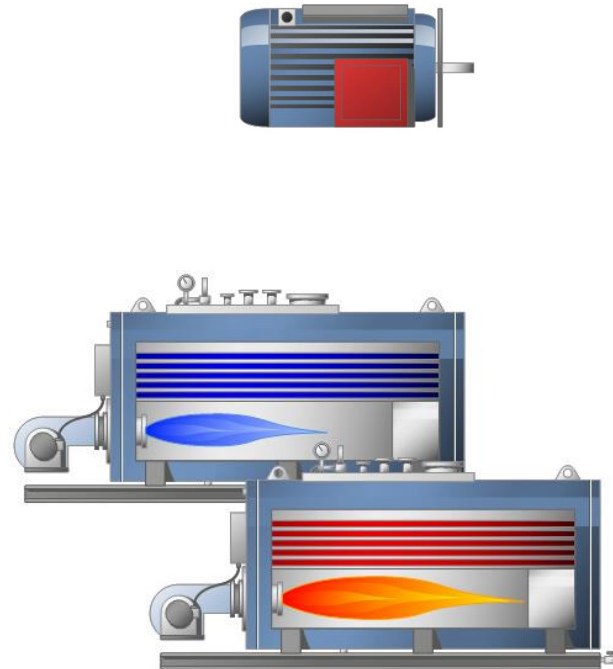
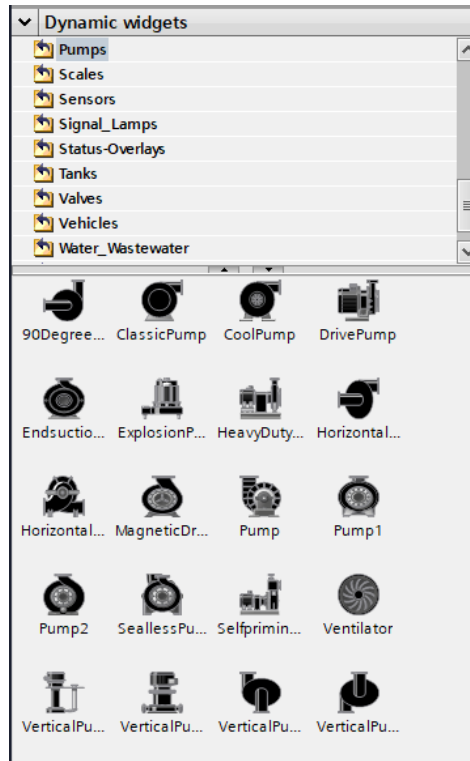
WinCC Unified V16 – User Interface

Scalable for all devices

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Unified Comfort Panel ✓

PC ✓



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



WinCC Unified - Videos



WinCC Unified first program: <https://www.youtube.com/watch?v=IspDMFQbNo8>

String handling: <https://www.youtube.com/watch?v=fKEaattACCU>

Export logged tags: <https://www.youtube.com/watch?v=jTmL5F4D42E>

Connect a OPC UA Client to the Unified Server: <https://www.youtube.com/watch?v=6KTJfKBCjVs>

Secure download, secure connection, encrypted transfer: <https://www.youtube.com/watch?v=atm4vnO1E6c>

Kolekcija: https://www.youtube.com/results?search_query=%23DerHecht

Unified Comfort panel: <https://www.youtube.com/watch?v=XKPsaj9Qdc4>

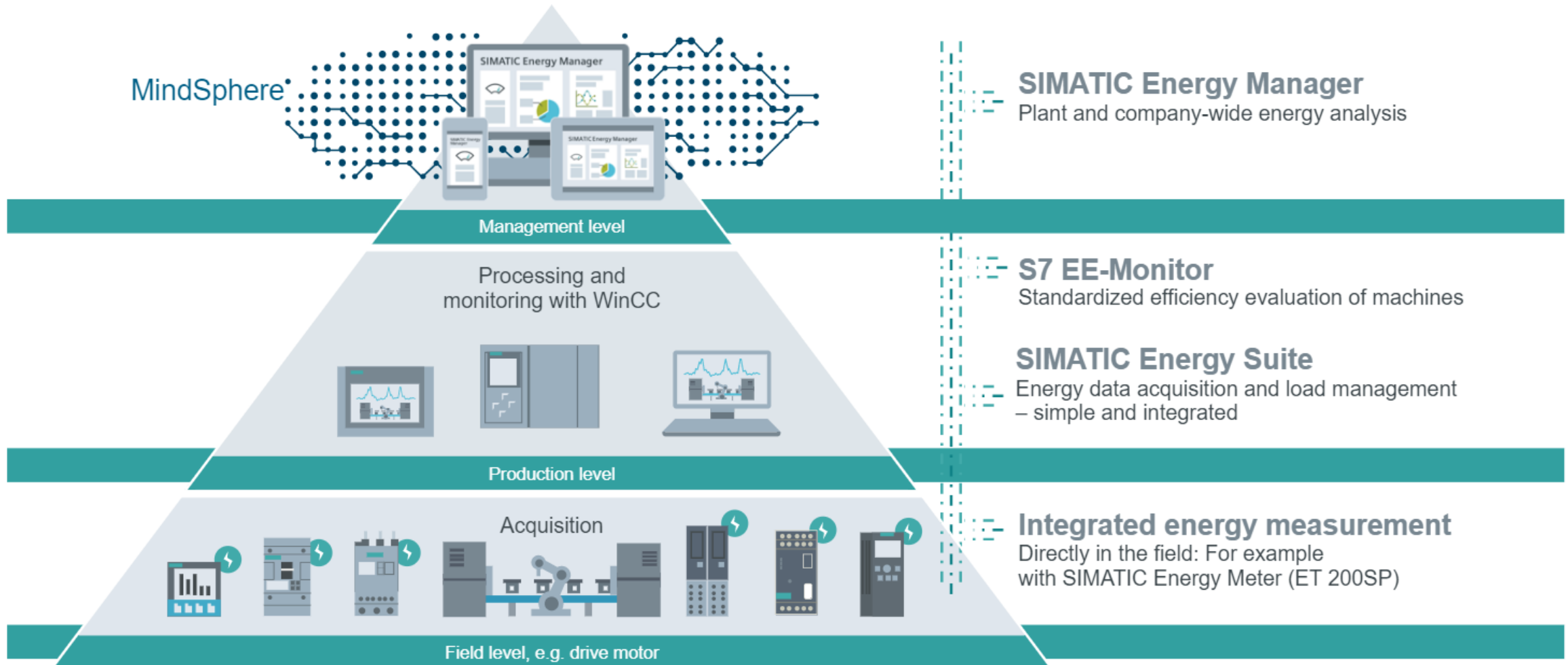
SIMATIC Energy Suite

Proactive load management in the production
- Easy and integrated – technical slides

[siemens.com/energysuite](https://www.siemens.com/energysuite)

TIA Portal V16 SIMATIC Energy Management

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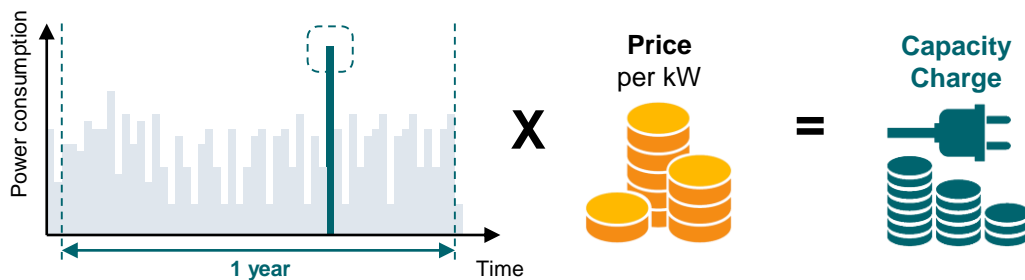
SIMATIC Energy Suite Load Management – Load peaks reduction

Customer requirements

- **Reduction** of the capacity charge through the avoidance of load peaks and more even power distribution
- Production processes **must not be influenced**
- **Automatic regulation** of the system without external influence
- Response of the system to **feedback** of the production process

Calculation of the Capacity Charge

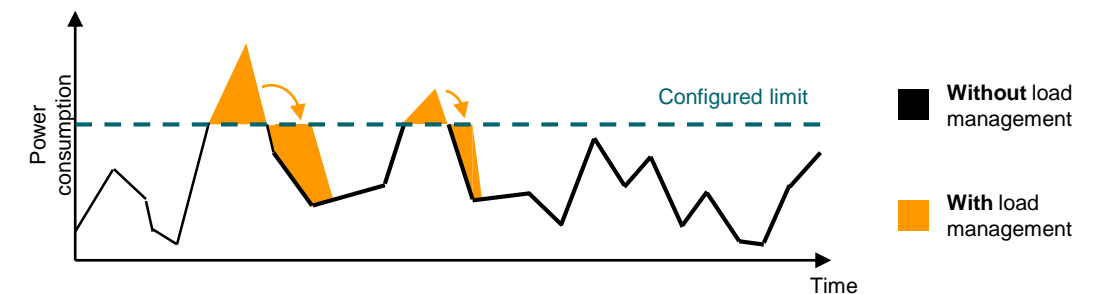
- Determination of the **highest average consumption** (in kW) during a period (usually 15 minutes) within a year
- **Multiplication** of this value by the contractually determined **price per kW** with the energy supplier company



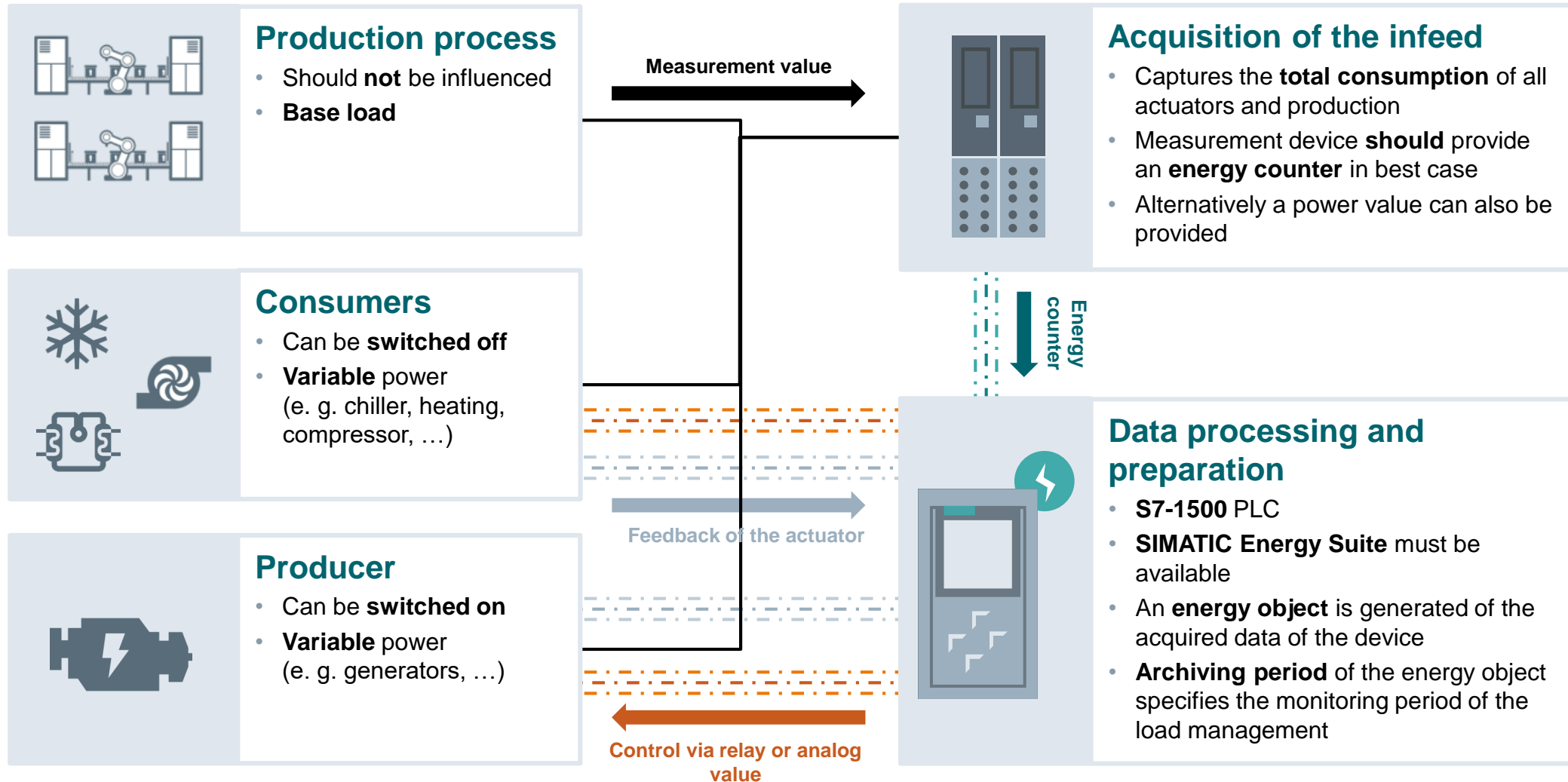
High costs with only a **single** load peak

Siemens offering – SIMATIC Energy Suite with load management

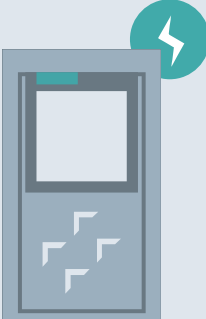
- Direct **integration** into the **production level** due to PLC-based solution
→ No intervention of IT systems in the production level necessary
- Avoidance of load peaks through **integrated prediction algorithm**
- **Smooth load distribution** due to **independent switch** of consumers or activation of generators
- **Future-proof** due to a **modular function block concept**
→ Simple extension of the number of actuators
- **Fast integration** into an existing **visualization** including all relevant data of the actuators and the entire system
- **Archiving** of every switching action and limit violation



SIMATIC Energy Suite Load Management – Basic prerequisites

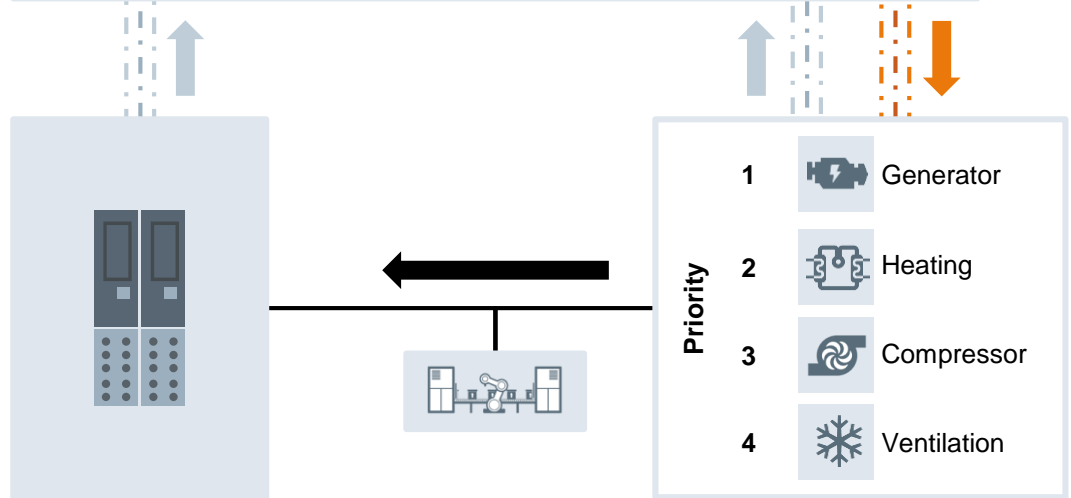
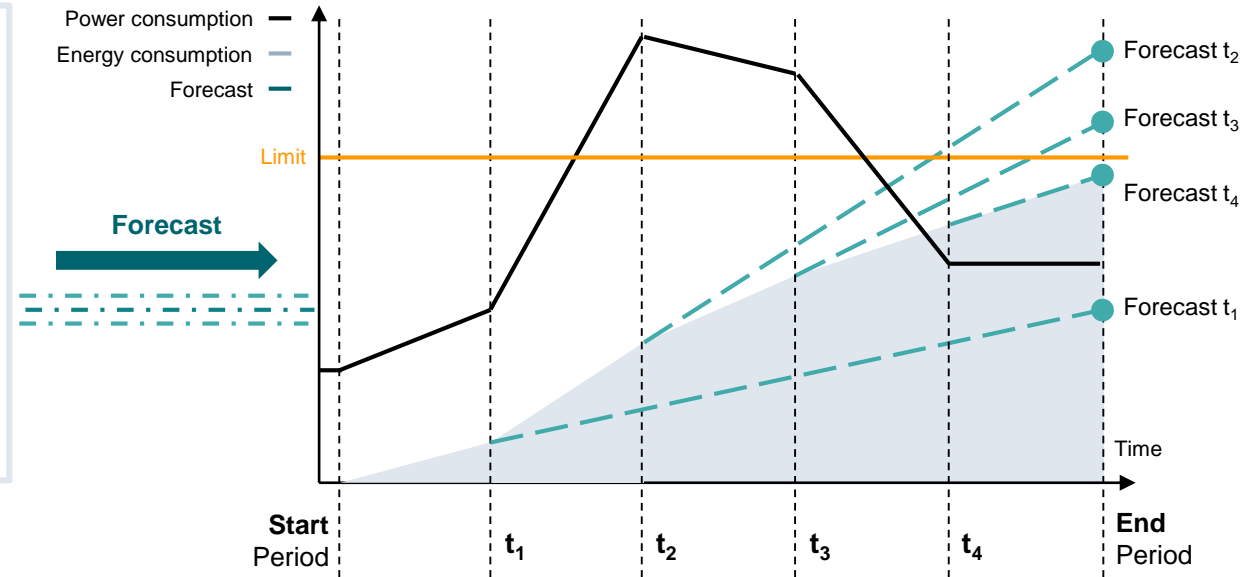


SIMATIC Energy Suite load management – Functionality



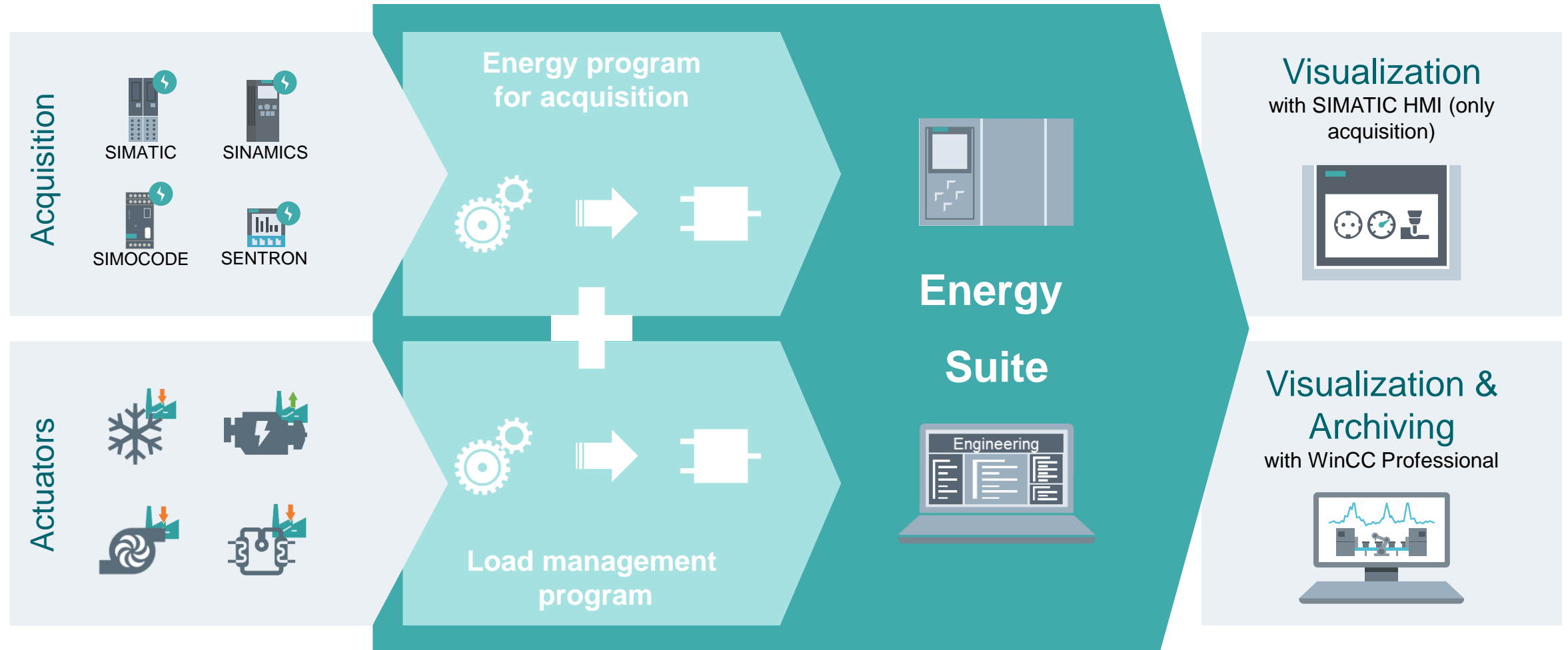
Load management software

- Continuously **calculates** the forecast of the energy demand at the end of the period
- Switches actuators** on or off depending on available potential
- Actuators are switched **according to configured priority**
- The **lower** the priority (relevance for the production process), the **more often** the actuator is switched



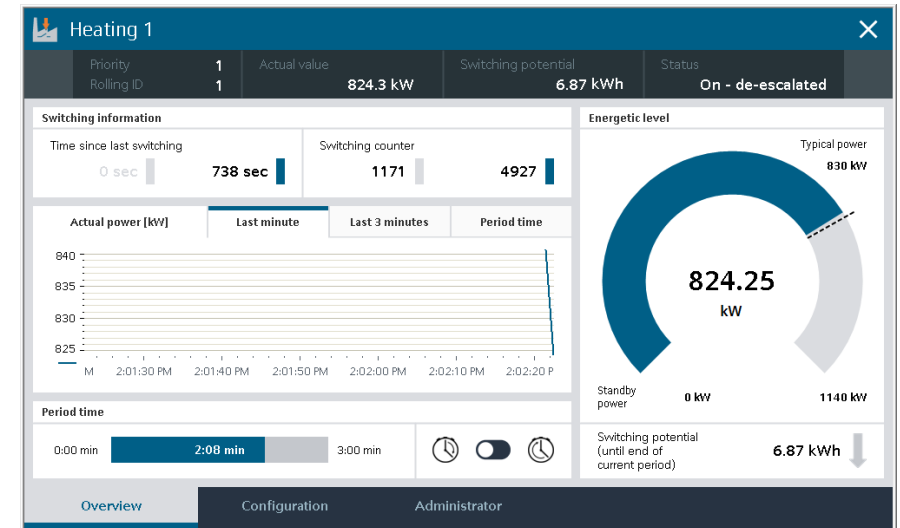
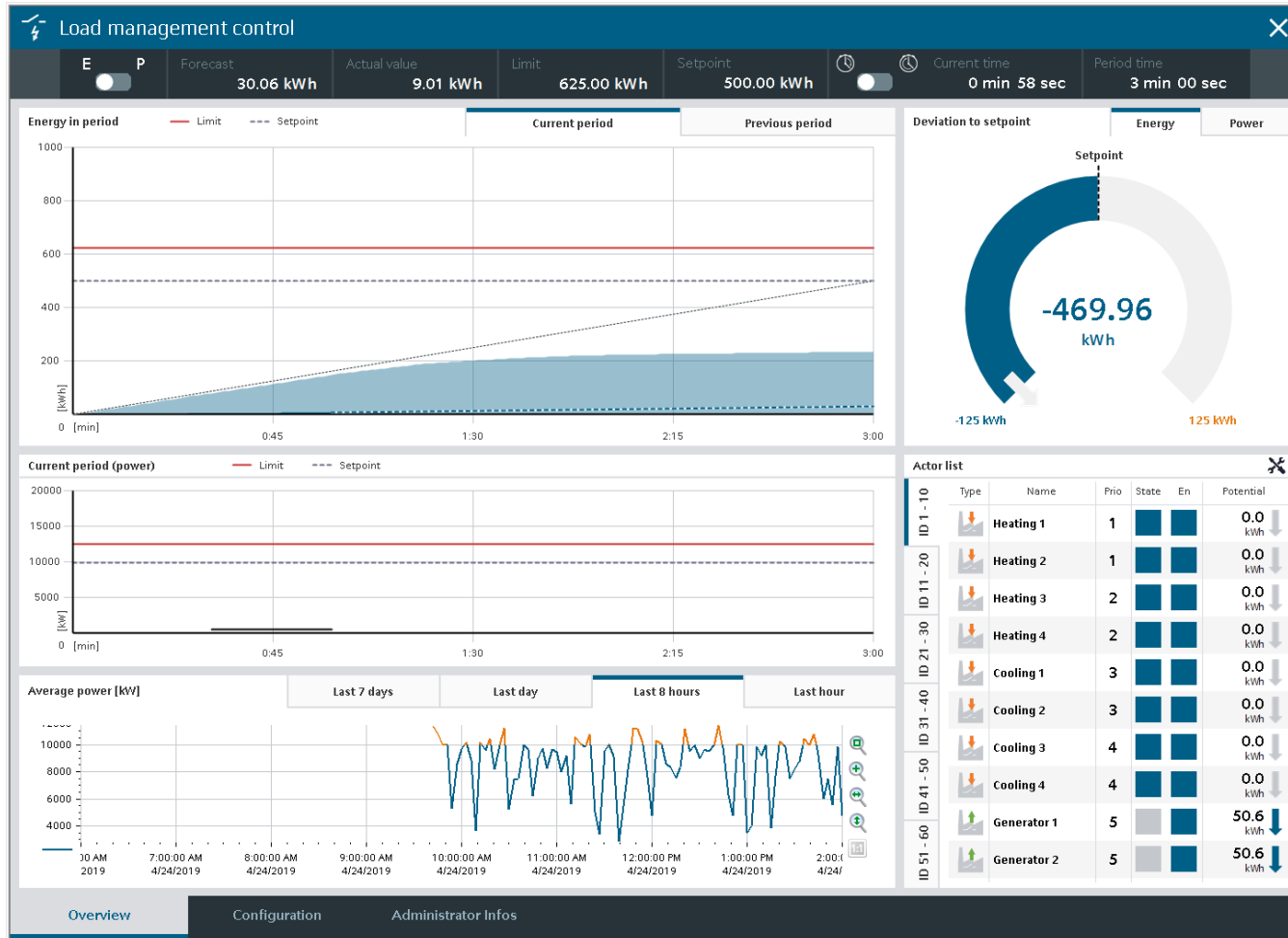
Forecast	---	< Limit	> Limit	> Limit	< Limit	---
Switching action	Heating on	Compressor & ventilation on	Generator on	Heating & compressor off	Compressor on	---
Energy demand	↗	↑	↘	↓	↗	---

SIMATIC Energy Suite load management – Load management in the Energy Suite



SIMATIC Energy Suite load management – Visualization example

<https://www.youtube.com/watch?v=Qm2QwT6KBAA>



Overview of the load management

- Presentation of the previous and current period using a triangle diagram
- Historical values of the infeed up to 7 days
- List of all actors including status and configuration possibility

Detail view per actuator

- All relevant information at a glance
- Subsequent configuration possible
- Operation of the manual mode

TIA Portal V16

Your gateway to automation in the Digital Enterprise



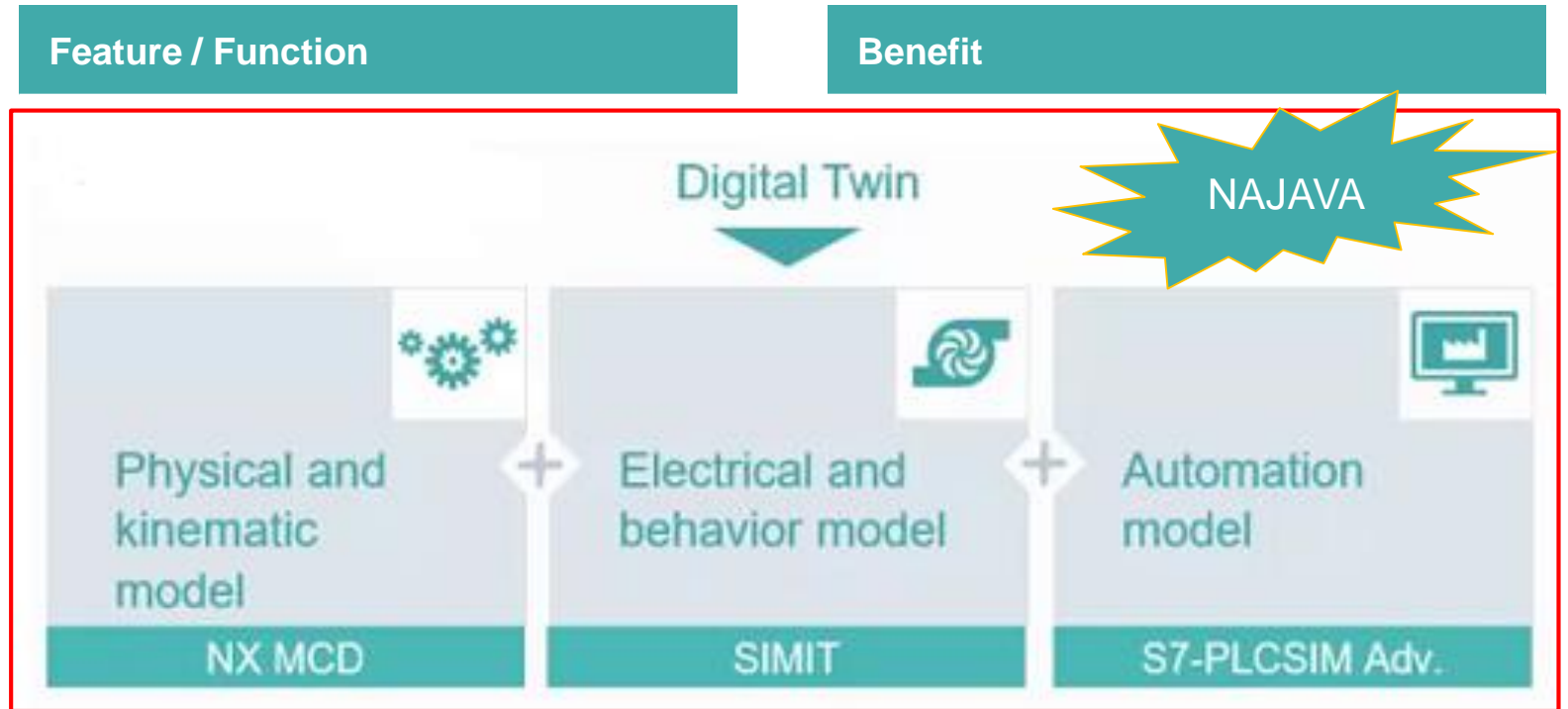
TIA Portal Cloud as 21-day free TRIAL

New

TIA Portal + SIMATIC Tools

- Step 7 Prof. / WinCC Adv. / Safety Adv.
- Startdrive Adv. / SINAMICS DCC
- S7-PLCSIM Adv. / Energy Suite / SiV Arc
- Sinetplan / Proneta / SAT

Limitation of accounts: No limitation Countries:
 Germany, Austria, Italy, Sweden, Denmark, Finland, Norway, Switzerland, United Kingdom, Netherlands, Spain, France
NEW: USA, India, Belgium, Hungary, Portugal
In evaluation: Poland, South Africa, Czech Republic, Argentina, Brazil, Canada, Japan, Mexico, Republic of Korea, Singapore, Australia, Bulgaria, Croatia, Ireland, Taiwan



www.siemens.com/simulation-cloud



„Home-Office ponuda” do 31.7.2020.

Svjedoci smo da je u ovim izazovnim vremenima vrlo važna fleksibilnost i mogućnost rada neovisno o lokaciji. Kako bismo omogućili rad izvan firme, pripremili smo posebnu ponudu koja će našim korisnicima omogućiti korištenje najnovijeg TIA PORTALA V16. Trajanje licenci vremenski je ograničeno do **31.12.2020.**

U promotivni paket uključene su TIA Portal floating licence:

- STEP 7 Professional V16
- WinCC Advanced V16 i WinCC Unified V16 (10K PT)
- STEP 7 Safety Advanced V16

Kataloški broj za naručivanje: **6ES7822-1AE06-0YS0**

>> Narudžbe su moguće do 31.7.2020.

>> Kataloška cijena: 25 €

>> Isporuka isključivo putem standardnog Online Software Delivery (OSD) procesa.



Powered
by WinCC
Unified

SIMATIC HMI Unified Comfort Panels

Unrestricted © Siemens 2020

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

SIMATIC HMI Unified Comfort Panels – Highlights



Great usability in a brilliant way

Capacitive Multitouch technology combined with bright colors and excellent readability



Size doesn't matter

Same interfaces and functionality for all devices from 7" to 22"



Need more? Add Apps!

Use Siemens Industrial Edge to extend standard functionality by edge apps



The power to do more

Realize larger applications thanks to increased system limits



Security Integrated

From access control and encrypted communication to security patches. Everything is inside



Everything under control

Full commissioning within TIA Portal. No IT-management necessary



Ready for the future as of today

Take full advantage of WinCC Unified with a Modern UI, openness and full scalability



Comfort DNA remains

Well known Comfort Panel features like automatic system backup remain



SIMATIC HMI Unified Comfort Panels – Standard- and Neutral design version

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Standard design
Silver frame – With Siemens branding



Neutral design
Black frame – No branding

SIMATIC HMI Unified Comfort Panels – Multitouch from 7” to 22”

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SIMATIC HMI Unified Comfort Panels – Display Information ¹

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	MTP 700	MTP 1000	MTP 1200	MTP 1500	MTP 1900	MTP 2200
Resolution	800x480	1280x800	1280x800	1366x768	1920x1080	1920x1080
Diagonal	7"	10.1"	12.1"	15.6"	18.5"	21.5"
PPI (Points per Inch)	133	149	125	100	119	102
Aspect ratio	15:9	16:10	16:10	16:9	16:9	16:9
Viewing angle	160°	160°	176°	170°	178°	178°
Brightness (cd)	400	400	400	400	350	250
MTBF (hours)	50.000	50.000	50.000	50.000	50.000	30.000

¹ This data is not included in the technical data in the Siemens Industry Online Support, as the values may vary if a supplier changes.

SIMATIC HMI Unified Comfort Panel

Increased system performance



	Comfort Panel 7 – 12"/15 – 22"	Unified Comfort Panel 7 – 12"/15 – 22"
PLC-Connections	8	16
Tags	2,048 / 4,096	8,000
Alarms	4,000 / 6,000	9,000
Logs	50	50
Logging Tags	2,048	5,000
Scripts	100 / 200	600
Text-/Graphic list	500	750
Screens	500 / 750	1,200
- Objects per screen	400 / 600	800 / 1,200
- Tags per screen	400	600 / 800

Increased quantity structure from 7" to 22"

Doubled quantity structure compared to Comfort Panel

Differentiation only for tags and objects per screen







SIMATIC HMI Unified Comfort Panels

Glove operation



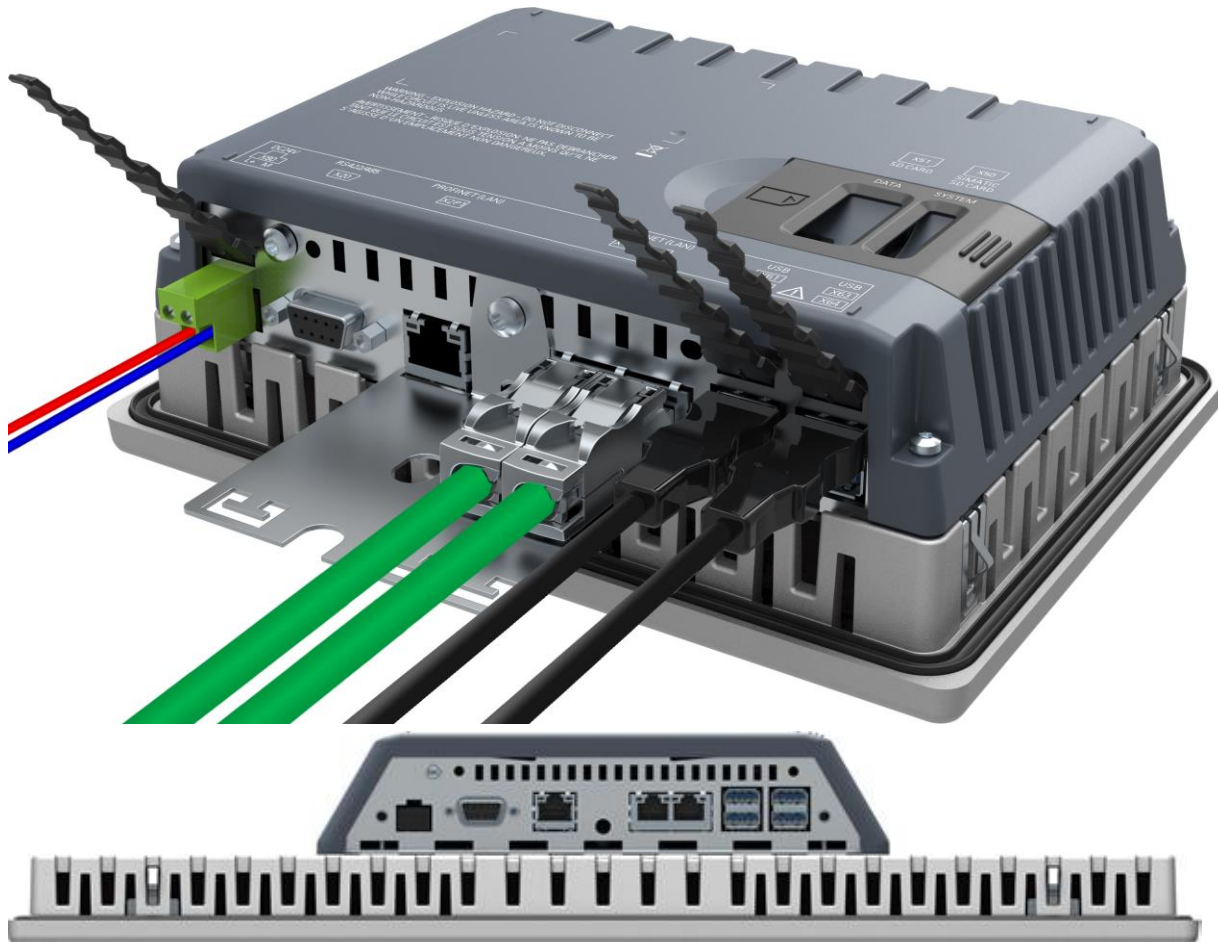
Support of commercial work gloves

- UVEX tested gloves ([link](#)):

	Glove model	Norm	Area of application	Properties	Standard touch application	Complex touch application (e.g. zoom)
	uvex phynomic XS uvex phynomic XS-W	EN 388: cut protection level 1	Fine and final assembly work	<ul style="list-style-type: none"> • Breathable impregnation • Mechanical protection 	<input type="checkbox"/>	<input type="checkbox"/>
	uvex rubipor XS	EN 388: cut protection level 1	Fine and final assembly work	<ul style="list-style-type: none"> • Breathable impregnation • Mechanical protection 	<input type="checkbox"/>	<input type="checkbox"/>
	uvex profi ergo	EN 388: cut protection level 1	Oily applications	<ul style="list-style-type: none"> • Partially coated • Impermeable to oils and water 	<input type="checkbox"/>	
	uvex C500 foam uvex C300 foam	EN 388: cut protection levels 5 and 3 respectively	Handling sharp parts	<ul style="list-style-type: none"> • Breathable • Cut protection 	<input type="checkbox"/>	<input type="checkbox"/>
	uvex rubiflex S (blue)	EN 374	Work with chemicals, paints, etc.	<ul style="list-style-type: none"> • Fully coated • Impermeable to chemicals, oils and water 	<input type="checkbox"/>	
	uvex u-fit lite	EN 374	Laboratories, food processing and medicine	<ul style="list-style-type: none"> • Disposable safety gloves 	<input type="checkbox"/>	

SIMATIC HMI Unified Comfort Panels Connectivity

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2 Port PROFINET Switch

1 IP address 100 Mbit

1 Port Ethernet

1 IP address 100 Mbit/1 Gbit

Serial

(422, 485) to support 3rd party PLCs¹

4x USB 3.0

Support of USB Hardware e.g., printer,

2x SD-Card

Data card for files, logs and customer data

System card for automatic backup

Reset Button

Set device to reset mode

¹ Available after device release via CSP

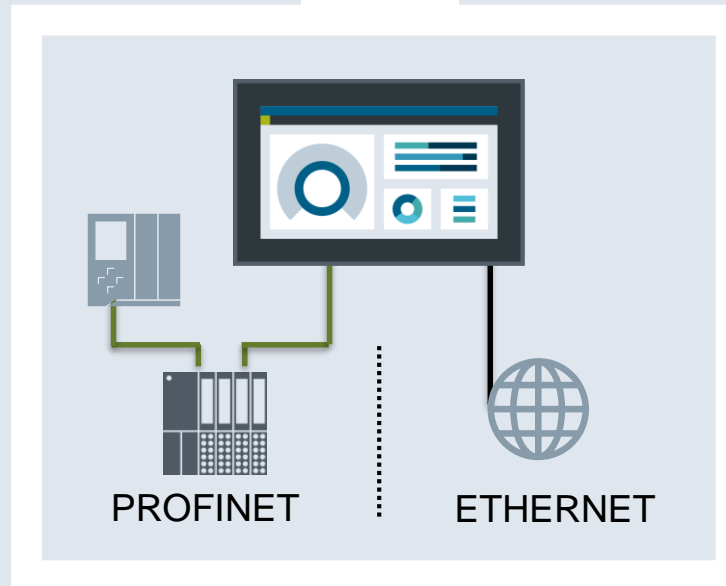
SIMATIC HMI Unified Comfort Panel

Temporary not all services on all interfaces!

Integrated Switch

2 Ports

- S7/S7+ Communication
- MRP / HSYNC
- PN Basic Services
(assign name, IP,..)
- Project Download via PN



Gigabit Interface

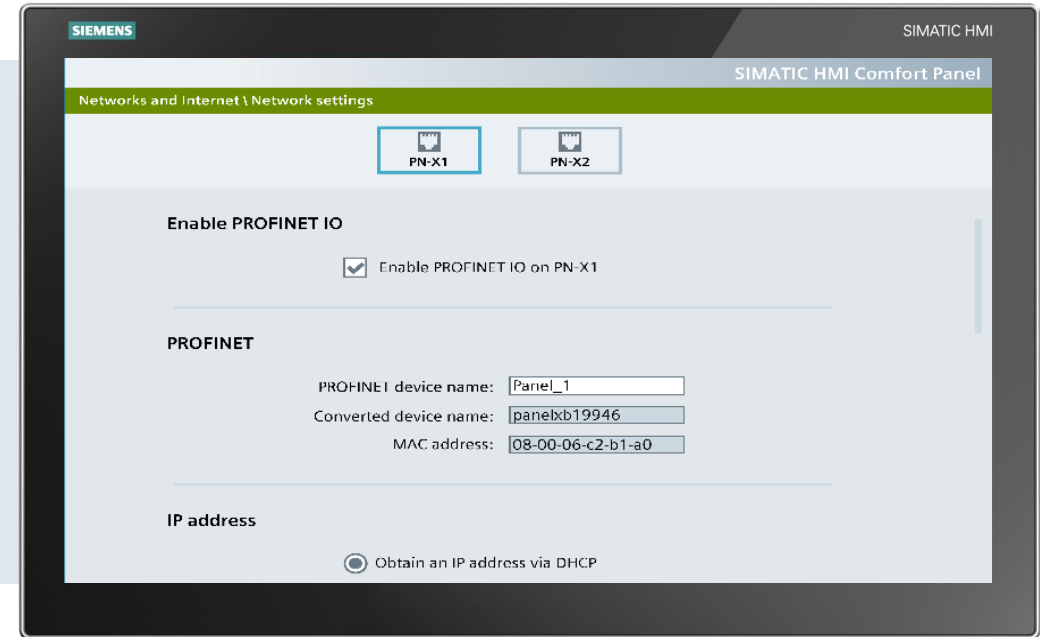
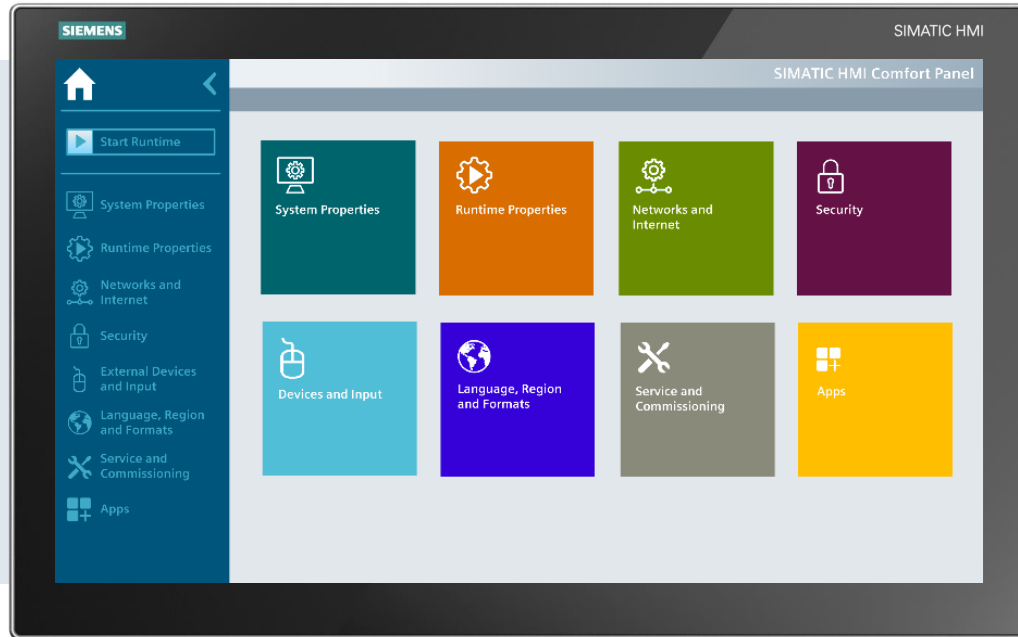
1 Ports

- Project download and Firmware Update via Ethernet
- Sm@rtServer (VNC) Access
- Web Browser
- Network Access
- Edge Management and Apps
- 3rd Party PLC¹
(e.g. Modbus RTU)

- If both communication services are required, two Ethernet wires must be used temporarily
- Will be changed with Update for WinCC Unified V16

SIMATIC HMI Unified Comfort Panel

Completely new designed control panel



- New look for the Control Panel - optimized for touch devices
- User has only access to control panel UI – not operating system UI

SIMATIC HMI Unified Comfort Panels – Get work done!

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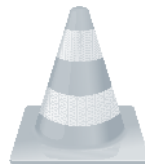


Ready to use system applications

Work in documents, view instruction videos or get access to web-based systems with the preinstalled applications on every Unified Comfort Panel.

Preinstalled system applications

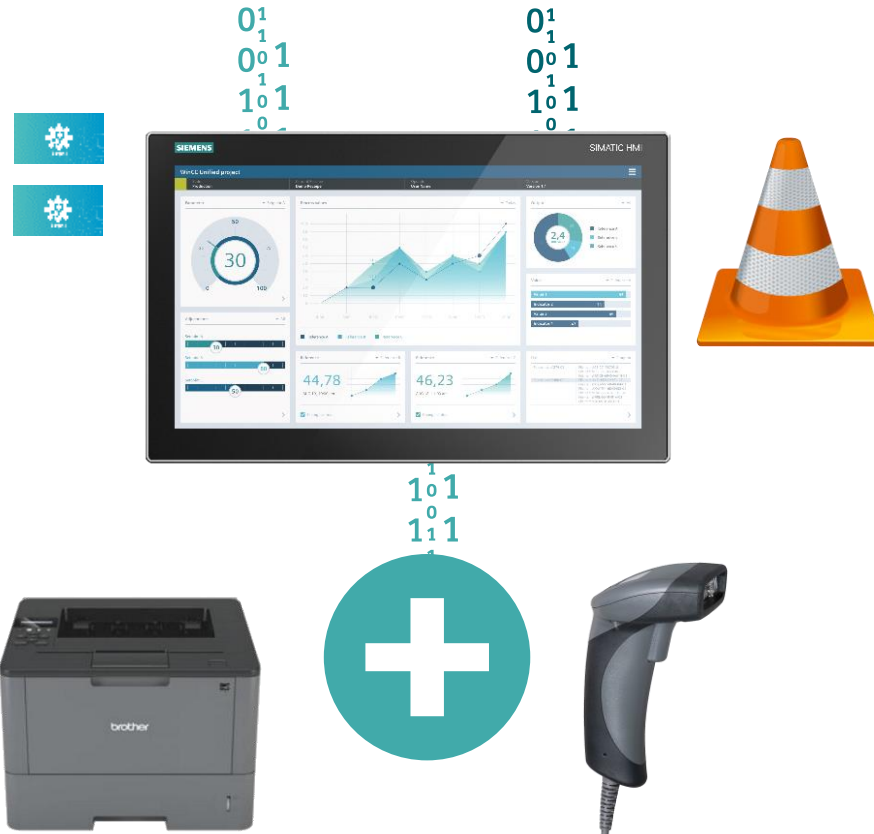
Browser	Google Chrome
Media Player	VLC Media Player
Office	Libre Office
PDF Viewer	Okular



SIMATIC HMI Unified Comfort Panel

Increased flexibility by openness

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TIA Portal Openness

- Enables automated engineering for Panel and PC-Systems

Application Openness

- Preinstalled applications
- Siemens Industrial Edge to expand the standard functionality

Runtime Openness

- Local access to HMI Runtime Tags via OpenPipe
- Custom Web Controls for more flexibility

Hardware Openness

- More flexibility with ready to use USB hardware e.g., printer

SIMATIC HMI Unified Comfort Panels

Openness to add applications using Edge technology

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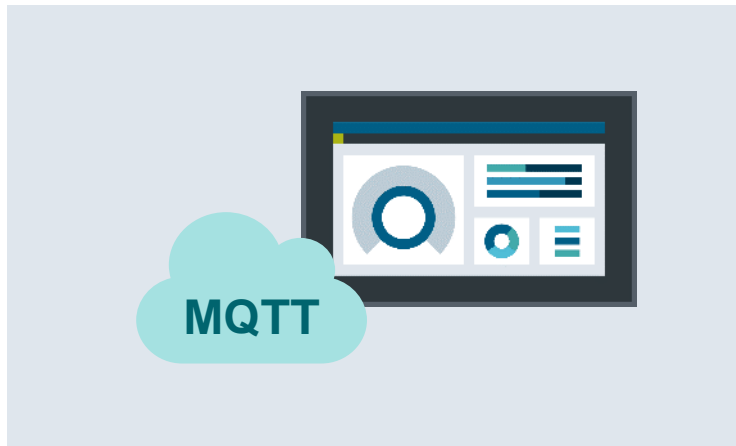
Expand the standard functionality via Edge Apps

- Siemens or others can provide applications
- Access to WinCC Unified Online Tags using OpenPipe interface
- **Device Managed Edge**
Apps can be managed directly on the device
- **Central Managed Edge** **Step 2**
Apps can be managed centrally via Edge Management System

Note: Edge applications can be used on **all** Unified Comfort Panels.

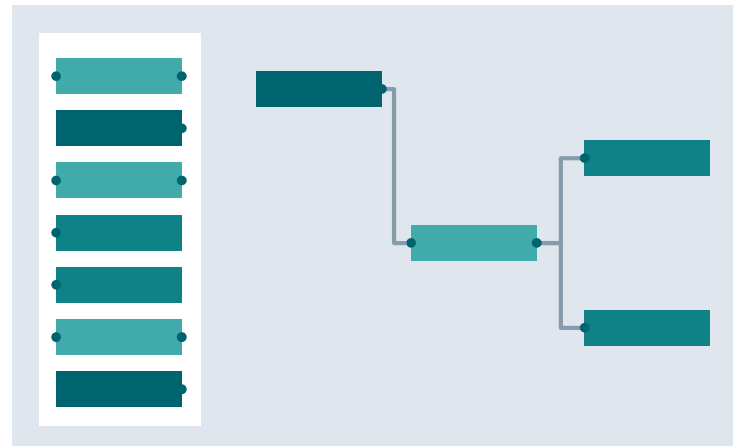
SIMATIC HMI Unified Comfort Panels – Edge App Examples

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MQTT App Cloud Connection

MQTT is the most common protocol for the connection of automation equipment to cloud based systems like MindSphere.



SIMATIC Flow Creator Data processing made easy

Define your data flow and create rules, KPIs or trigger actions, if threshold values are exceeded or a special event happens.



SIMATIC Notifier Mobile Notification

Transform the Unified Comfort Panel into a messaging service. Manage and send mobile notifications directly to your Smartphone or Smartwatch.

Device-Managed Edge Licensing – Unified Comfort Panel

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Free



Demo, Test and Development

- Siemens Industrial Edge is part of every Unified Comfort Panel by default
- Simply activate the Edge functionality in the Control Panel
- No need for a separate software package

€200

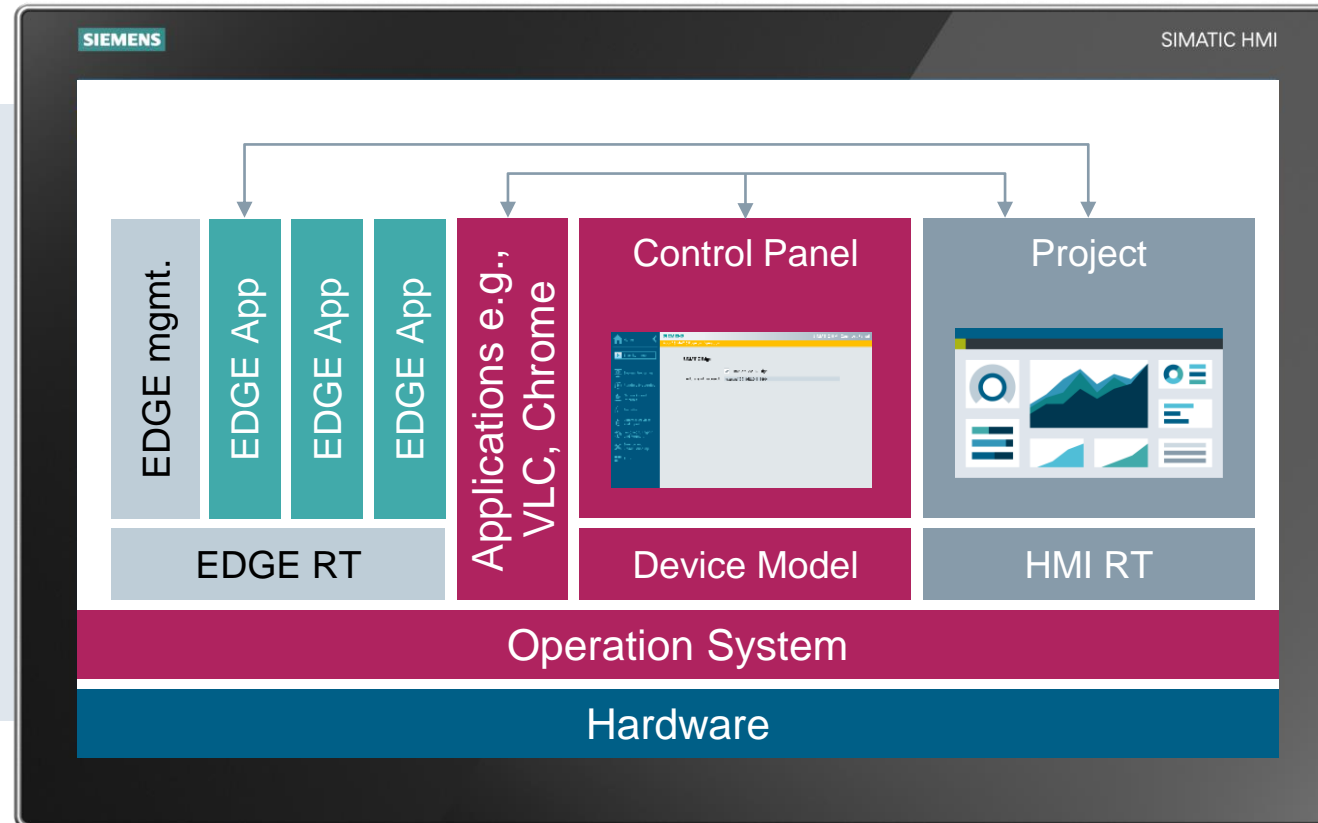


Productive Usage

- As soon as the device is in productive usage a certificate of license will be required for each Unified Comfort Panel
- No need for license transfer
- Version independent

SIMATIC HMI Unified Comfort Panel

System architecture





SIMATIC Industrial OS

One Linux ...

- Based on one of the best-known and most stable distributions → Debian 9
- Use of existing advantages such as freely available packages, simple update concept, etc.
- Large community (support and exchange of experiences)
- LTS version → Long-term availability
- Preemptive Patch → real-time capable
- Quick and easy installation
- Installation of additional components (e.g. Gnome Desktop-Environment) already prepared

cross-platform, ...

- SIMATIC IPCs (entire current Portfolio)
- Edge Devices (based on SIMATIC IPC)
- SIMATIC HMI Panels (new Generation)
- SIMATIC IOT Devices (new Generation)
- Hypervisor-based platforms, z. B.: Open Controller

SIMATIC HMI Template Suite – The TIA Portal library for good HMI design

SIEMENS
Ingenuity for life



Ready to use screen
templates for WinCC Unified
and Unified Comfort Panels

Available for all common
resolutions from 7" - 22"

Available free of charge in
Industry Online Support

Download under entry ID **91174767**
or from Industry Online Support via the following link:
<https://support.industry.siemens.com/cs/ww/en/view/91174767>

SIMATIC WinCC Unified System – Application Examples

Type	German	English
TIA Portal Add-In Data 2 Unified	SIOS Download	SIOS Download
WinCC Unified Tag Simulator	SIOS Download	SIOS Download
WinCC Unified Demo projects	SIOS Download	SIOS Download
TIA Portal Library HMI Template Suite	SIOS Download	SIOS Download
Getting Started Edge @ Unified Comfort Panel	Soon	Soon
From Comfort to Unified Comfort Guideline	Soon	Soon
















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SIMATIC Industrial PC

SIMATIC Industrial-PC Portfolio



		Rack PC	Box PC	Panel PC
Embedded Industrial-PCs without fan	IPC1x7 Ultracompact		 IPC127E	
	IPC2x7 Compact		 IPC227E	 IPC277E
	IPC4x7 Powerful		 IPC427E	 IPC477D/E
High-end Industrial-PCs High-end functionality	IPC6x7 High Performance	 IPC647E	 IPC627E	 IPC677E
	IPC8x7 Extensive expandability	 IPC847E		
	IPC1047 High CPU and GPU Performance	 IPC1047		
Advanced Industrial-PCs Latest PC technology	IPC5x7 Maximum Performance	 IPC547G	 IPC527G	
Basic Industrial-PCs Attractive price	IPC3x7 available from stock	 IPC347E	 IPC327E	 IPC377E

Long-term availability:
4 – 6 years
plus 5 years
repair and spare parts service

Long-term availability:
2 – 3 years plus 3 years
repair and spare parts service

SIMATIC IPC127E

The ultra-compact industrial PC for your application

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Ingenuity for life

High-performance data processing with the most compact design

- Latest CPU technology of Intel Apollo Lake series
2 or 4-core processors
- Comprehensive interface equipment
- Integrated 128 GB SSD
- Up to 3 LAN interfaces

Operating system

- Windows 10 Enterprise LTSB 2016
- SIMATIC Industrial OS (Debian based Linux)

High flexibility

- Flexible mounting in all vertical mounting positions
- Small space requirement
(installation volume approx. 0.3 liters)



High system availability

- Maintenance-free, as there are no rotating parts (fan, HDD)
- Self-diagnosis thanks to local diagnostic software SIMATIC IPC DiagBase

High investment security

- Short delivery times due to warehouse variants
- Long-term availability: Service & support period from 8 - 10 years from market launch

Adaptable to the machine

- Up to 55 °C ambient temperature
- Dust protection due to closed housing
- LEDs for efficient self-diagnosis; optimization for headless operation

SIMATIC IPC327E/IPC377E

Industrial PC technology at an attractive price

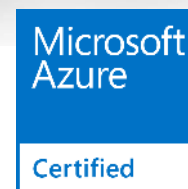


Latest PC technology

with Intel Celeron Quad Core, up to 8GB RAM and mPCIe/mSATA for easy expandability

Proven standards

with USB 3.0, display port, 6 serial ports and more for easy integration into existing systems



SIMATIC quality

designed for 24/7 operation in industrial environments incl. standard run-in tests and certificates

Attractive price

with an excellent price-performance ratio for cost-efficient implementation of a wide range of applications

Available from stock

with reduced complexity in pre-configured variants for shorter delivery times

* To operate AWS IoT Greengrass, the following operating systems are supported:

- Ubuntu 18.04.1 LTS
- SIMATIC Industrial OS V1.3

SIMATIC Rack PCs – High performance, functionality and expandability for versatile applications



High-end

IPC1047

Maximum CPU und GPU Performance

IPC847

Maximum expandability and long-term availability

IPC647

Highest compactness and long-term availability

Industrial

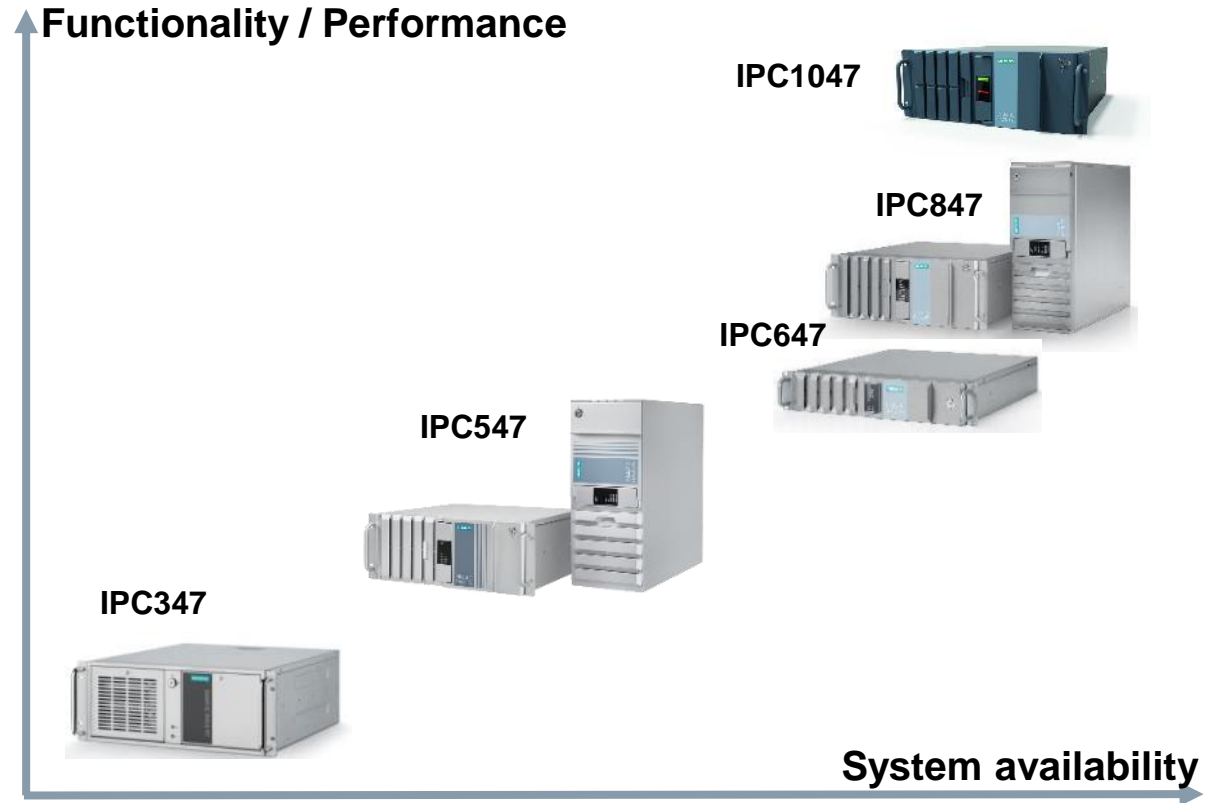
IPC547

Latest technology and maximum performance

IPC347

High performance and optimized price

Functionality / Performance



On stock - short delivery times

Build-to-order - maximum configuration freedom

SIMATIC Quality – 24/7 continuous operation in industrial applications

SIMATIC ITP1000 PC in Tablet design

SIEMENS
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Mobile Devices in Production

Strong growth of mobile devices in manufacturing (+5.1% last year)

Specific Functions

At least 70% of all Industrial Tablet users need special functions

Windows in Production

Some have tried to switch to iOS / Android and return to Windows.



Paperless Factory

No more printed documents in production.

High performance

Demanding applications now mobile.

Industry Core Requirements

High ruggedness, long product availability for use in industrial environments.

Long-term available, Windows-based industrial tablet PC with many interfaces and integrated functions

TIA Portal V16

Zanimljivi linkovi

- Digital Training with Highlights of TIA Portal V16
<https://support.industry.siemens.com/cs/document/109772991/sitrain%3A-digital-training-with-highlights-of-tia-portal-v16?dti=0&lc=en-WW>
- TIA Portal Tutorial Centar
https://cache.industry.siemens.com/dl/dl-media/707/106656707/att_961750/v9/106656707_TIA_Portal_-_Tutorial_Center_web/start.htm#!/en
- Automation Tasks in 10 minutes
https://cache.industry.siemens.com/dl/dl-media/570/109767570/att_986452/v1/109476605_Automation_Tasks_web/start.htm#!/de
- Basic Process Library
<https://support.industry.siemens.com/cs/ww/en/view/109749508>
- HMI Option +
<https://support.industry.siemens.com/cs/ww/en/view/109754400>
- HMI design Template
<https://support.industry.siemens.com/cs/ww/en/view/91174767>



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Ordering Information



SIMATIC WinCC Unified – Promotion Packages

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Available until 31/12/2020

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

SIMATIC WinCC Unified – Promotion Packages Plant Intelligence Options

SIEMENS
Ingenuity for life

Available until 31/12/2020

WinCC Unified Plant Intelligence Optionen

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

6AV2155-0XP01-6AL0

Packages only available via Online Software Delivery (OSD)

~ 30%
discount

SIMATIC WinCC Unified V16 Engineering – Ordering information



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

**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>

WinCC Unified V16 – IPC Packages



Package	Order Number
WinCC Unified V16 PC RT 150, Package	6AV2155-3DB01-6AA0
WinCC Unified V16 PC RT 500, Package	6AV2155-1EB01-6AA0
WinCC Unified V16 PC RT 1k, Package	6AV2155-2EB01-6AA0
WinCC Unified V16 PC RT 2.5k, Package	6AV2155-2MB01-6AA0
WinCC Unified V16 PC RT 5k, Package	6AV2155-1FB01-6AA0
WinCC Unified V16 PC RT 10k, Package	6AV2155-2FB01-6AA0
WinCC Unified V16 PC RT 50k, Package	6AV2155-1GB01-6AA0

Further information: <https://support.industry.siemens.com/cs/de/en/view/99860269>

SIMATIC HMI Unified Comfort Panels – Ordering information



Device Name	Display Size	MLFB Standard Design	MLFB Neutral Design
MTP700 Unified Comfort	7.0"	6AV2128-3GB06-0AX0	6AV2128-3GB36-0AX0
MTP1000 Unified Comfort	10.1"	6AV2128-3KB06-0AX0	6AV2128-3KB36-0AX0
MTP1200 Unified Comfort	12.1"	6AV2128-3MB06-0AX0	6AV2128-3MB36-0AX0
MTP1500 Unified Comfort	15.6"	6AV2128-3QB06-0AX0	6AV2128-3QB36-0AX0
MTP1900 Unified Comfort	18.5"	6AV2128-3UB06-0AX0	6AV2128-3UB36-0AX0
MTP2200 Unified Comfort	21,5"	6AV2128-3XB06-0AX0	6AV2128-3XB36-0AX0
License for Device Managed Edge		6AV2170-2BA00-0AA0	

Mounting Frames – Ordering information

Available Q2/2020

Name	Mounting compatibility	MLFB
Mounting Frame Set 15" Touch	from TP1500 to MTP15000	6AV6881-6QD41-1AA0
Mounting Frame Set 19" Touch	from TP1900 to MTP1900	6AV6881-6UD41-1AA0
Mounting Frame Set 22" Touch	from TP2200 to MTP2200	6AV6881-6VD41-1AA0

SIMATIC HMI Unified Comfort Panels – Starter Kits

Available Q2/2020

Device Name	MLFB	List price
MTP700 Unified Comfort Starter Kit	6AV2128-3GB06-0AP0	1400 €
MTP1000 Unified Comfort Starter Kit	6AV2128-3KB06-0AP0	2150 €
MTP1200 Unified Comfort Starter Kit	6AV2128-3MB06-0AP0	2800 €
MTP1500 Unified Comfort Starter Kit	6AV2128-3QB06-0AP0	3350 €
MTP1900 Unified Comfort Starter Kit	6AV2128-3UB06-0AP0	4000 €
MTP2200 Unified Comfort Starter Kit	6AV2128-3XB06-0AP0	4650 €