

The image features a laptop in the foreground displaying the WinCC Unified software interface. The interface includes a navigation pane on the left, a main workspace with a circular gauge showing the number '30', and various control elements. In the background, a semi-transparent 3D visualization of a factory production line is shown, with several workstations and conveyor belts. A large blue banner is overlaid on the bottom half of the image, containing the title text. The overall aesthetic is clean and modern, with a light blue and white color palette.

WinCC Unified Device Handling

SIMATIC WinCC Unified Hands On: Project Creation & Runtime Start

HANDS ON

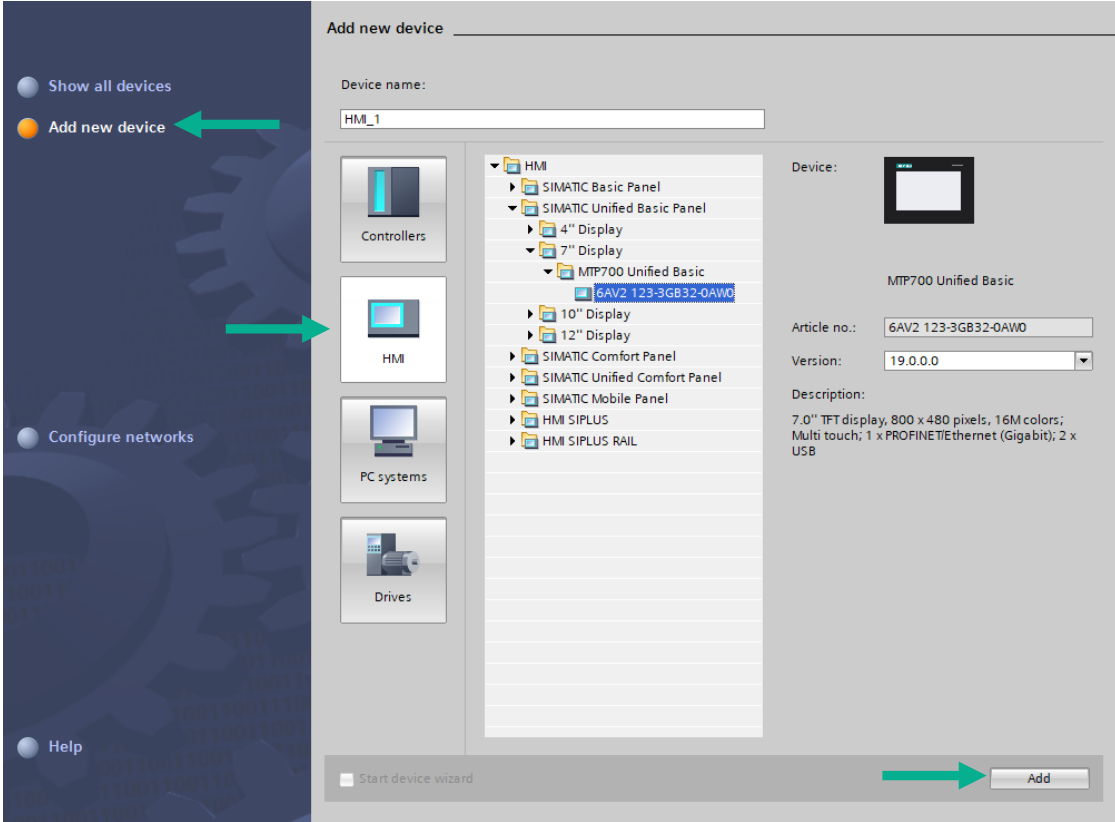
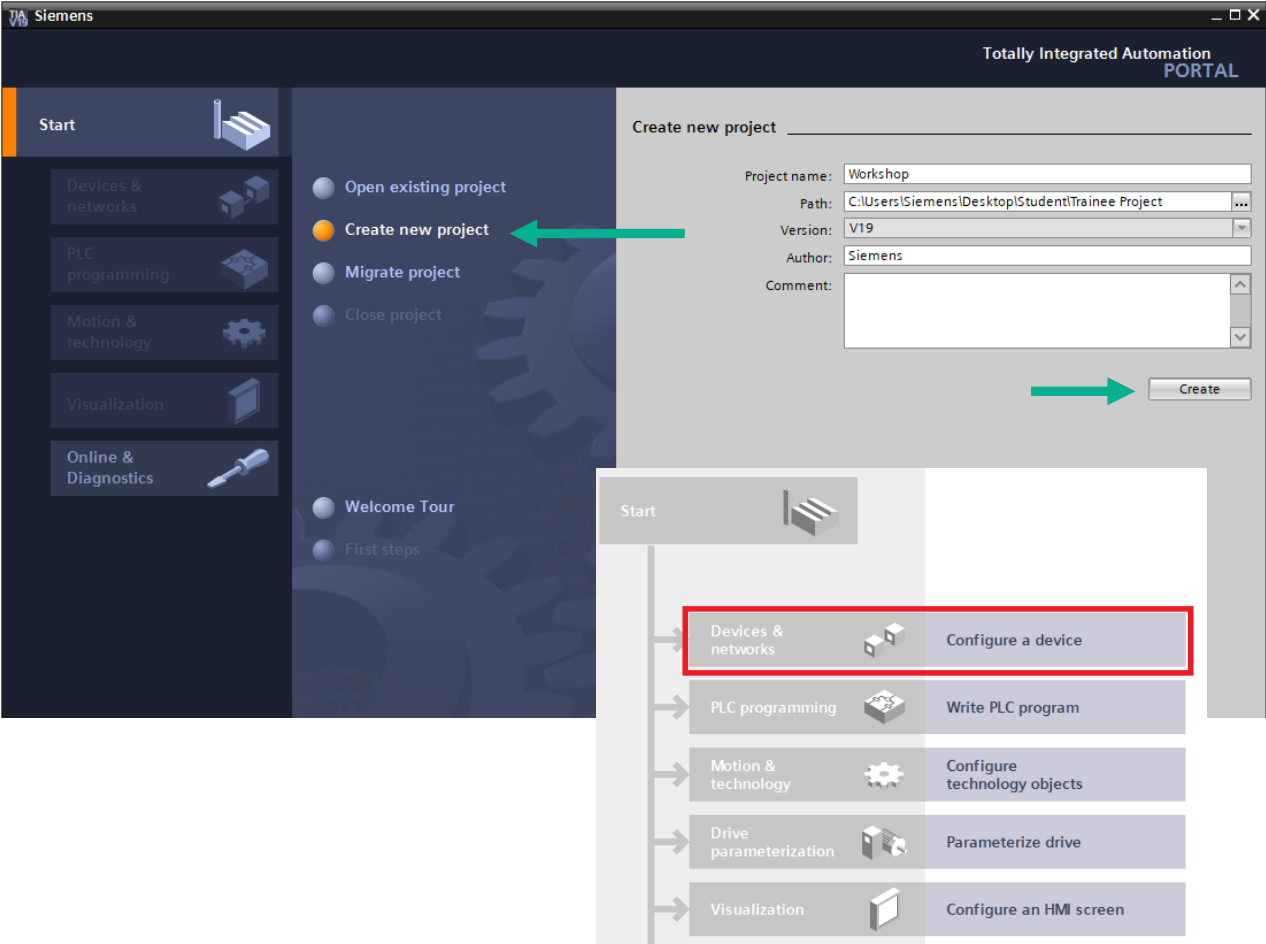


The screenshot displays the SIMATIC WinCC Unified software interface. On the left, a sidebar contains navigation options: 'Show all devices', 'Add new device', 'Configure networks', and 'Help'. The main area is titled 'Add new device' and features a 'Device name' field containing 'HMI_1'. Below this, a tree view shows the 'HMI' folder expanded, with 'SIMATIC Unified Basic Panel' selected. Underneath, '7" Display' is chosen, and 'MIP700 Unified Basic' is selected. The 'Device' section shows a preview of the MIP700 Unified Basic device. Below the device preview, the 'Article no.' is '6AV2 123-3GB32-0AW0' and the 'Version' is '19.0.0.0'. A 'Description' field provides technical specifications: '7.0" TFT display, 800 x 480 pixels, 16M colors; Multi touch; 1 x PROFINET Ethernet (Gigabit); 2 x USB'. At the bottom, a 'Start device wizard' checkbox is visible. In the foreground, a browser window titled 'WinCC Unified RT' shows a runtime simulation of a control panel. The panel includes a vertical scale from 0 to 50 with a green bar and a circular gauge with a needle pointing to 21. A digital display below the gauge also shows the value 21.

1. Add a Unified Panel to your TIA Project
2. Create a Start screen called 'Main screen'
3. Add some elements
4. Create User (admin) and password
5. Compile and simulate your project

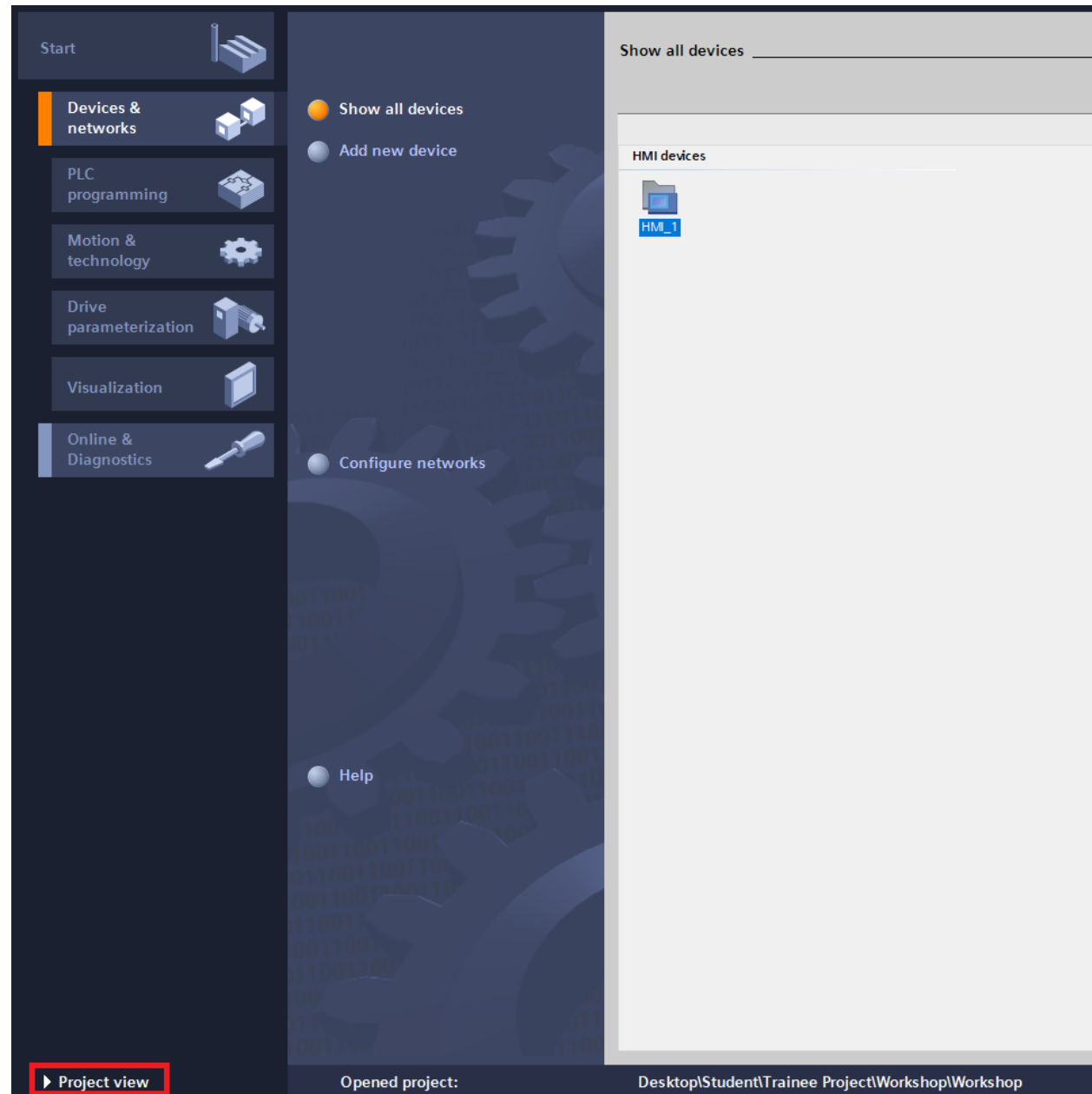
SIMATIC WinCC Unified

Create a new project and Add Device



Add either Unified Basic OR Unified Comfort 7" panel

SIMATIC WinCC Unified Working in the Device View



Switch the “Data Driven” Project view

SIMATIC WinCC Unified Add Screen and Elements

1. Add a new screen, rename as shown

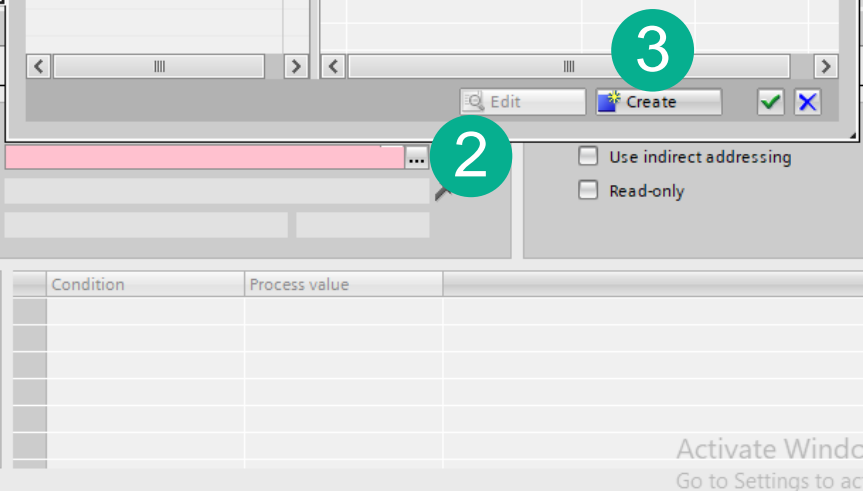
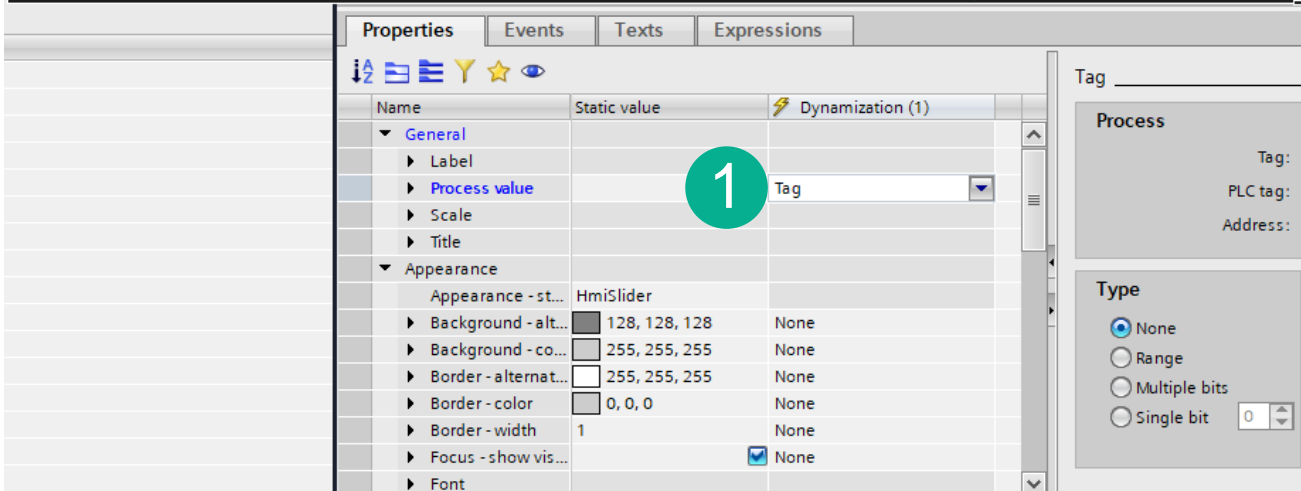
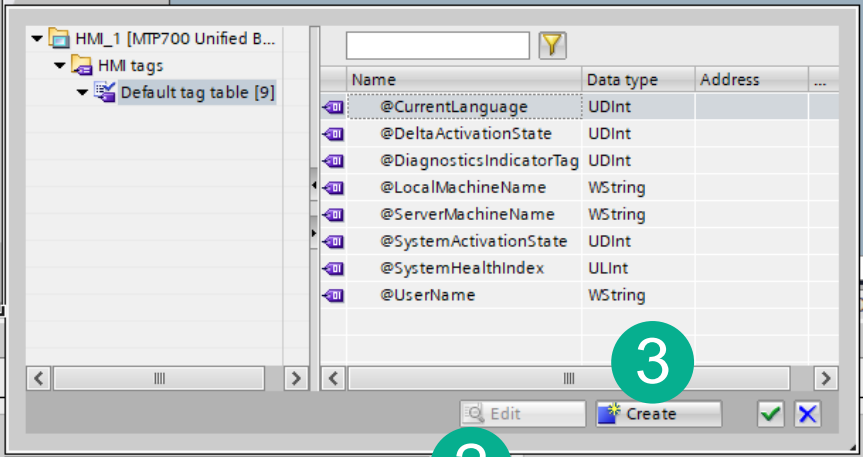
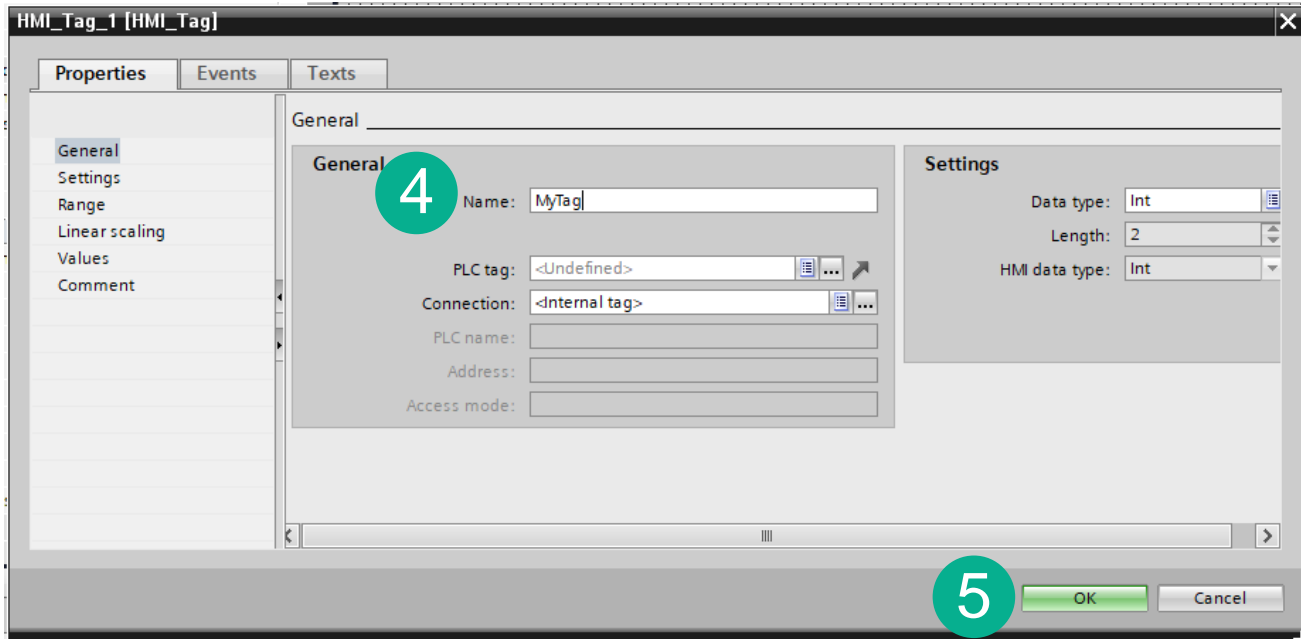
2. Drag and drop the Slider, Gauge, IO field and Text Box elements into the screen from the toolbox as shown

3. Resize Text field to 32 - Bold

Name	Static value	Dynamization (0)
General		
Font		
Font	Siemens Sans, 32pt, style=Bold	...
Italic		<input type="checkbox"/> None
Name	Siemens Sans	None
Size	32	None
Strikethrough	None	None
Underline		<input type="checkbox"/> None
Weight	Bold	None
Text	Main Screen	None

SIMATIC WinCC Unified Change Properties – Highlight Slider

1. Change to “Tag”
2. Click “...” to browse
3. Create a tag
4. Rename tag
5. Confirm change



SIMATIC WinCC Unified Change Properties – Highlight Gauge

1. Change to “Tag”
2. Click “...” to browse
3. Select “MyTag”
4. Confirm change

The screenshot displays the SIMATIC WinCC Unified interface. On the left, a gauge labeled 'Gauge_1 [Gauge]' is shown with a value of 0. Below it, the 'Properties' window is open, showing the 'General' tab. The 'Process value' property is set to 'Tag', indicated by a red circle with the number 1. To the right, the 'Tag' selection dialog is open, showing a list of tags under 'Default tag table [9]'. The tag 'MyTag' is selected, indicated by a red circle with the number 3. The 'Edit' button is highlighted with a red circle with the number 2, and the 'Create' button is highlighted with a red circle with the number 4. The 'Process' window shows the 'Tag' field set to 'MyTag'.

Name	Static value	Dynamization (1)
General		
Label		
Process value		Tag
Scale		
Title		

Name	Data type	Address
@CurrentLanguage	UDInt	
@DeltaActivationState	UDInt	
@DiagnosticsIndicatorTag	UDInt	
@LocalMachineName	WString	
@ServerMachineName	WString	
@SystemActivationState	UDInt	
@SystemHealthIndex	ULInt	
@UserName	WString	
MyTag	Int	

SIMATIC WinCC Unified Change Properties – Highlight IO Field

1. Highlight Default tag table
2. Drag “MyTag” from Details view on top of IO Field
3. Observe Process tag is automatically filled in

The screenshot displays the SIMATIC WinCC Unified interface. On the left, the 'Workshop' tree shows the 'Default tag table [9]' selected, with a red circle '1' next to it. Below it, the 'Details view' shows a table of system tags, with 'MyTag' of data type 'Int' selected, marked with a red circle '2'. The main workspace contains a graphical IO field (a gauge) and a red arrow pointing from the 'MyTag' entry to the IO field. At the bottom right, the 'IO field_1 [IO field]' properties window is open, showing the 'Tag' section where 'MyTag' is entered in the 'Tag' field, marked with a red circle '3'. The 'Process' section is also visible, showing 'PLC tag:' and 'Address:' fields.

Name	Data type	Address
@CurrentLanguage	UDInt	
@DeltaActivationState	UDInt	
@DiagnosticsIndicatorTag	UDInt	
@LocalMachineName	Wstring	
@ServerMachineName	Wstring	
@SystemActivationState	UDInt	
@SystemHealthIndex	ULInt	
@UserName	Wstring	
MyTag	Int	

Name	Static value	Dynamization (1)
General		
Font		
Font	Siemens Sans, 14pt	
Italic		None
Name	Siemens Sans	None
Size	14	None
Strikethrough	None	None
Underline		None
Weight	Normal	None
Mode	Input/output	None
Output format		None
Process value		Tag
Appearance		
Appearance - st...	HmiIOField	

SIMATIC WinCC Unified Runtime Settings

Project tree: Workshop > HMI_1 [MTP700 Unified Basic] > Runtime settings

General

Alarms

Language & font

Storage system

Tag settings

Web client

Security

Layers

General

Identification

Runtime ID: 984d7fdd-62a0-45fe-a686-8767a88d96ad

Encrypted transfer

Activate encrypted transfer

Password:

Confirm password:

After you have entered the password, press Enter to confirm.

Allow initial password transfer via unencrypted download

Screen

Start screen: Main Screen

1. Open Runtime Settings
2. Uncheck encrypted transfer
3. Verify that Start Screen is set as shown

SIMATIC WinCC Unified Create Users

The screenshot displays the SIMATIC WinCC Unified interface. On the left, the 'Security settings' tree is expanded to 'Users and roles'. A table in the center lists users: 'Anonymous' (unchecked) and 'User' (checked). A dialog box is open for setting the password for the 'User' entry. Below the table, the 'Assigned roles' section shows a list of roles with 'HMI Administrator' selected. Red circles with numbers 1 through 4 indicate the steps: 1. Select 'Users and roles' in the tree; 2. Click the '+' icon to add a new user; 3. Select the 'HMI Administrator' role; 4. Enter the password 'Siemens1!' in the dialog box.

User name	Password	Runtime timeout	UM domain ID	Comme
<input type="checkbox"/> Anonymous				User cr
<input checked="" type="checkbox"/> User		30 Min		
<Add new user>				

Password:

Confirm password:

Assigned user groups		Assigned roles		Assi
Assigned roles				
	Assigned to	Name	Desc	
<input type="checkbox"/>		Drive Administrator	Syste	
<input type="checkbox"/>		Drive Safety Engineer	Syste	
<input type="checkbox"/>		Drive Engineer and Service	Syste	
<input type="checkbox"/>		Drive Operator	Syste	
<input type="checkbox"/>		Drive Guest	Syste	
<input type="checkbox"/>		Drive Ext. Role Fieldbus	Syste	
<input type="checkbox"/>		Drive Ext. Role SDI Standard/Adv	System-defined role "Drive Ext. Rol...	30 Min A user with this role can change d...
<input checked="" type="checkbox"/>		HMI Administrator	System-defined role "HMI Adminis...	30 Min User management, Monitor, Oper...
<input type="checkbox"/>		HMI Operator	System-defined role "HMI Operator"	30 Min Web access, Operate, HMI read an...
<input type="checkbox"/>		HMI Monitor	System-defined role "HMI Monitor"	30 Min Web access, Monitor, HMI read ac...
<input type="checkbox"/>		HMI Monitor Client	System-defined role "HMI Monitor ...	30 Min WinCC Unified Client Monitor - limi...
<input type="checkbox"/>		HMI Online Configuration Engineer	System-defined role "HMI Online C...	30 Min Operate HMI, read and write acce...

1. Under Security Setting select Users and Roles
2. Add a new local user
3. Select HMI Administrator role
4. Set password to 'Siemens1!'

SIMATIC WinCC Unified Download to Simulator - Test the screen

The screenshot shows the SIMATIC WinCC Unified interface. On the left, the Project Tree is visible, with 'HMI_1 [MTP700 Unified Basic]' selected. The main area displays a simulated HMI screen with a vertical bar chart, a circular gauge, and a digital display, all showing a value of 21. A browser window is open in the foreground, displaying the simulated screen content. The browser window title is 'WinCC Unified RT' and the address bar shows 'desktop-5kkm6am/WebRH'. The browser window is marked with a '4' in a green circle. The Project Tree is marked with a '1' in a green circle. The simulated screen is marked with a '3' in a green circle. The browser window is marked with a '2' in a green circle.

1. Select HMI device in the Project Tree
2. Press Start Simulation, Portal will open the default browser
3. Test your work
4. When finished close the browser

Get started smoothly with the WinCC Unified System

Supporting Materials

Tutorial Center

Video series for an easy start with the WinCC Unified System. Learn all the things you need to get started smoothly.

Template Suite

Ready-to-use screen templates for PC Systems and the Unified Comfort Panels in a free TIA Portal library incl. Wizard.

Get started or modernize

Everything you need know when you want to switch from an existing visualization to the WinCC Unified System



Find all the supporting materials for the WinCC Unified System at a glance
<https://support.industry.siemens.com/cs/ww/en/view/109777887>

Modernize **NOW**:
www.siemens.com/modernize-now

WinCC Unified Workshop



Siemens Industries Inc Digital Industries Factory Automation Visualization

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