

SIMATIC

Configuring WinCC Unified Runtime as a System for SIMATIC Unified AR

Compact Operating instructions

Legal information

Warning notice system


This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

 DANGER

indicates that death or severe personal injury will result if proper precautions are not taken.
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 WARNING
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indicates that death or severe personal injury may result if proper precautions are not taken.

 CAUTION
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indicates that minor personal injury can result if proper precautions are not taken.
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NOTICE

indicates that property damage can result if proper precautions are not taken.
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If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

Proper use of Siemens products

Note the following:

 WARNING
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Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.
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Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

SIEMENS

SIMATIC Unified AR

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1 Configuring WinCC Unified Runtime as a System for SIMATIC Unified AR

Integrating WinCC Runtime as a system in Unified AR allows you to retrieve and display real-time information about the state of machines and plants using AR technology.

To achieve this, **WinCC Unified Runtime PC** is configured for display in the Unified AR app to be shown as screens within individual compositions.

1.1 Prerequisites

Please note the following prerequisites.

1.1.1 WinCC Unified

Notice**System requirements**

SIMATIC HMI WinCC Unified supports integration in SIMATIC Unified AR starting from V18.2.

Ensure the following preparations are made:

1. A user with a password is set up in the TIA Portal and transferred to a Unified Runtime accordingly. A local UMC (user management component) is set up and linked to WinCC Unified.
2. You have created and configured a Unified Runtime PC device (PC Systems / HMI Application / SIMATIC WinCC Unified Runtime) in the TIA Portal.
 - a. For this device, one or more users are configured and transferred to the Unified Runtime via "Security Settings / Users & Roles".
 - b. Users in the TIA Portal are linked to the corresponding WinCC Unified role (e.g., Admin, Operator, or Monitor) and transferred to the Unified Runtime.
3. The project is loaded onto the device and is active in Runtime. Please refer to the [compiling and loading](#) documentation for more information.

Notice**Additional Documentation**

Refer to the official [documentation](#) for WinCC Unified Runtime (Entry ID: 109954244).

See also: [WinCC Unified - Getting Started](#)

1.1.2 Unified AR

You have installed SIMATIC Unified AR for iOS on your mobile device

Notice

Unified AR application manual

Please note the complete [SIMATIC Unified AR application manual](#) (Entry-ID: 109820771).

1.2 Procedure

1. Connect a barcode and create a composition. When creating the composition, you have the following options:
 - a. Option 1: Enable the "Allow New" switch. When scanning the barcode, a "Add Composition" tile will appear. Tap on the tile to automatically create a new composition. Give the composition a name.
 - b. Option 2: Create a new composition using the "plus" symbol and assign a name. By entering any barcode payload, a barcode will be automatically generated and linked to the composition.
2. Scroll down and select "Add Screen". You will be taken to the Screen Details.
3. In the Screen Details, select "Choose System" at the top. Choose "Add System". Alternatively, you can select an already linked system.
4. In the system settings, select a system of type "WinCC Unified RT".
5. Enter the host or IP address, or the URL of the running WinCC Unified Runtime.
6. Proceed with entering the credentials (username and password) of the WinCC Unified Runtime.
7. Click on "Test Connection". A certificate viewer will appear. Decide whether to trust the certificate.
8. After connecting a Unified RT system, you can now enter the screen name and define additional settings.

Note

Customize Screen Name

Make sure to provide the specified "Screen Name" that matches the screen name of the Unified RT.

9. In the Screen Details, define further settings for your screen, such as height, width, or position.

You have connected a WinCC Unified Runtime project with a screen from your composition in the SIMATIC Unified AR app.