HMI Template Library LTemplateKMT

WinCC Basic V15, WinCC Comfort/Advanced V15;
WinCC Professional V15, WinCC V7.x

https://support.industry.siemens.com/cs/sc/2054

Siemens Industry Online Support

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1 Introduction

1.1 Cause

HMI projects are created in companies by different colleagues and departments. The individual visualizations are created individually and, depending on the displayed content, have different appearances.

The aim of a template for HMI configurations is to provide an approach which always makes HMI configurations look similar. This increases the recognition value for the customers and operators of HMI visualizations.

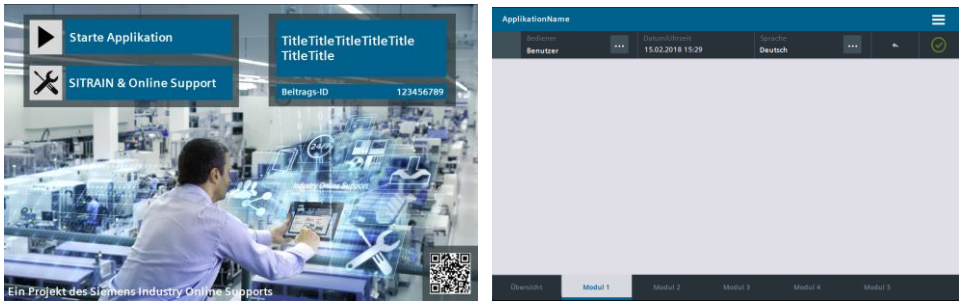
The request for a template for HMI projects are:

- New, attractive design for users
- Standardization and harmonization
  - Identical look and feel for HMI projects
  - Identical navigation and uniform structure

1.2 Overview

This document describes the new HMI template library and makes it easier to use the templates.

Figure 1-1 Start page



Note The HMI style and the set designs are binding for the template.

1.3 HMI Template Suite

The template corresponds to the design of the "HMI Template Suite". (Article ID: 91174767). In this application example, a complete operating and navigation concept is designed and offered in the form of a finished HMI template.

For extensive HMI visualizations, the "HMI Template Suite" (entry ID: 91174767) can be used as a template for HMI projects instead of the KMT template library.

Advantages:

- Complete navigation and operating concept.
- Deeper navigation levels.
- Integration of SiVArc for automated generation of visualization.

The template from the application example (Entry ID: 91174767) is to be used in the following cases.

- A function is completely developed and should be integrated as a library in customer projects.
- HMI project planning serves to operate a complete system. You therefore need extensive navigation and operating options.

Link to the application example:

https://support.industry.siemens.com/cs/ww/en/view/91174767

2 WinCC templates in the TIA Portal

The templates for operating devices (7" to 19") and for PC systems are grouped together in a library.

2.1 Content of the library

Figure 2-1 Library content

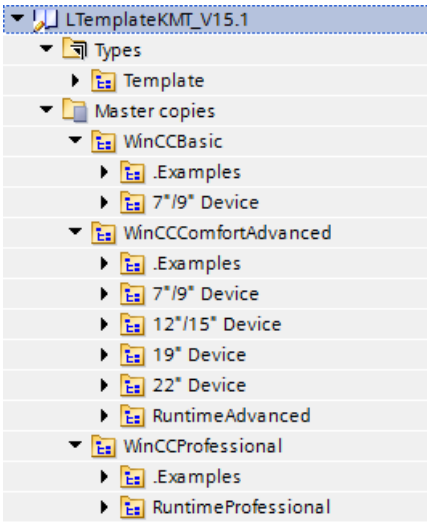


Table 1 Library contents

Main folder	Subfolder	Use
WinCC Basic		Contains operating devices that are configurable with WinCC Basic:
	7 " / 9 " panels	Contains KTP900 Basic Panel Resolution 800x480 px
WinCC Comfort/Adv		
	7 " / 9 " panels	Contains TP900 Comfort Panel Resolution 800x480 px
	12 " / 15 " panels	Contains TP1200 Comfort Panel Resolution 1280x800 px
	Runtime Advanced	Contains TP2200 Comfort, Runtime Advanced Resolution 1920x1080 px
WinCC Professional		
	Runtime Professional	Contains Runtime Professional Resolution 1920x1080 px

Note All operating devices with the same resolution can be configured using the "Exchange device" function.

2.2 Handling special resolutions

The template library covers frequently used resolutions across the entire product portfolio.

Standard resolutions covered by the library:

1. 800x480 px
2. 1280x800 px
3. 1920x1080 px

For other resolutions, the following notes apply:

Table 2 operating devices with different resolutions

No.	Resolution	Operating devices	Procedure
1.	480x272 px	KTP 400 Basic, TP400 Comfort	Customize solution without template Due to the restricted amount of space on the screen, a simple representation must be selected.
2.	640x480 px	KTP1000 Basic,	Adjusting the visualization of the Comfort 9**”** device (800x480 px)
3.	1366x768 px	TP1900 Comfort	Adjusting the visualization of the Comfort 12/15" device "Replace device and use "Adjust screen" function.

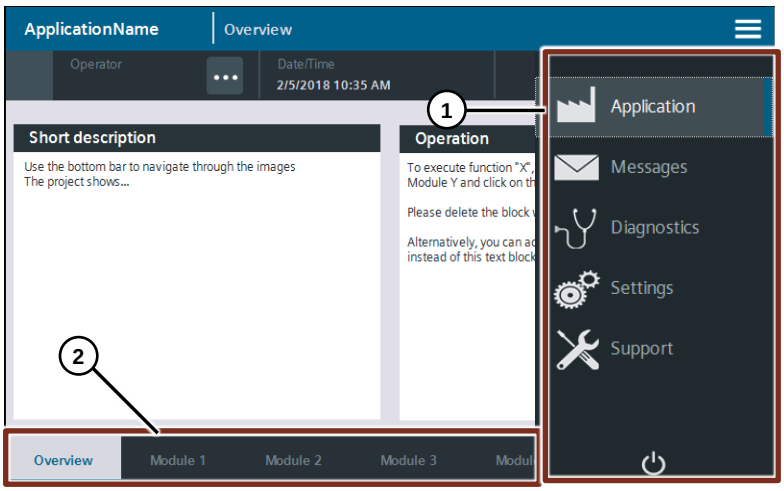
2.3 Function overview and operating concept

This chapter explains the operating concept of the template and describes the design of the template.

Note The WinCC Basic template differs from the template design due to the limited functionality.late.

General view of the template

Figure 2-2



Navigation in the project

With the main navigation (1) you can switch between the configured HMI visualization, the message and diagnosis pages, the settings and the support pages.

You can access the configured HMI visualization by clicking on the "Application" button in the slide-in menu. You can navigate through the HMI visualization using a second navigation bar (2).

2.3.1 Title bar

Uses

Display the title and open the Panel option.

Figure 2-3

Function

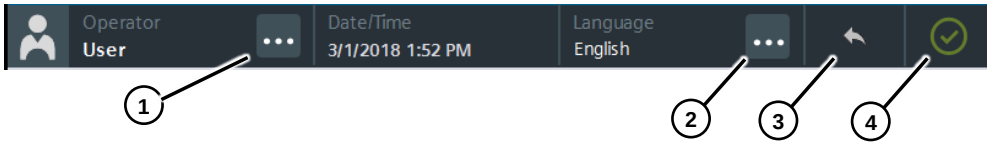
1. Button: Go to the start screen
2. Button: Open the slide-in menu

2.3.2 Status bar

Uses

The display provides important information and functions (e.g. registered user or language switching). It can be designed variably if required.

Figure 2-4



Function

1. Log user on/off
2. Set language
3. "Previous page" button.
4. Button and display: Diagnostics

2.3.3 Slide-in menu

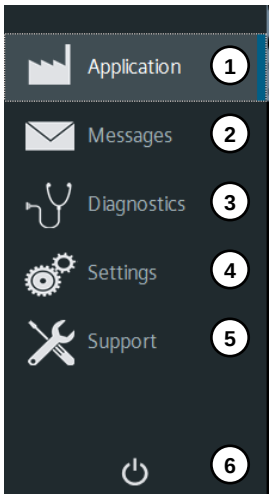
Uses

In the slide-in menu you can switch between modules or display messages and settings.

Functions

1. Application example (Application)
2. Messages/Alarms (HMI Control) (Messages)
3. Diagnostics (HMI Control) (Diagnostics)
4. Settings (Settings)
5. Online Support support pages (Support)
6. End runtime

Figure 2-5



2.3.4 Settings

Uses

Here you adjust the settings for the display and the operating device and gain access to further features (e.g. HTML browser, system functions).

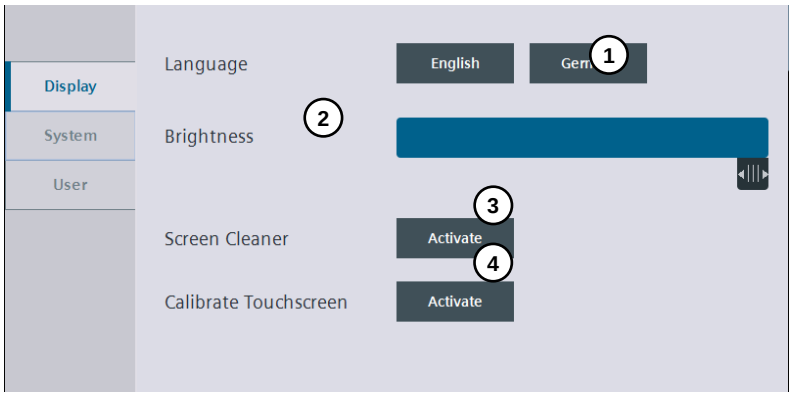
Note

The setting options differ depending on the WinCC version in use.
In WinCC runtime systems, you can directly access Windows applications and the "PG/PC interface".

Display functions

1. Set language (Language)
2. Set brightness (Brightness)
3. Activate screen cleaner (Screen Cleaner
4. Calibrate touch screen (Calibrate Touchscreen)

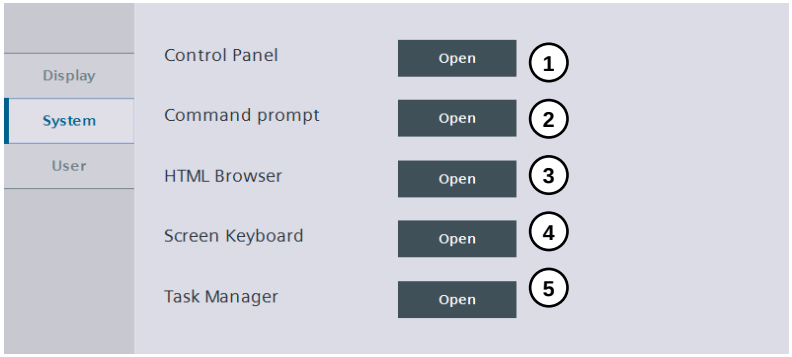
Figure 2-6



System functions

1. Open control panel (Control Panel)
2. Open command line (Command prompt)
3. Open HTML browser
4. Open keyboard (Screen Keyboard)
5. Open task manager

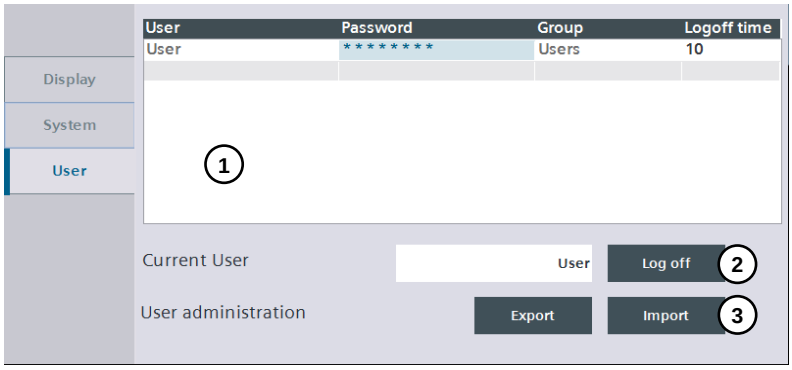
Figure 2-7



User management functions

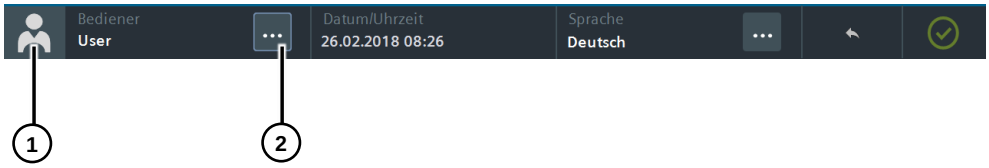
1. User
2. User logoff ("Current User Log off")
3. Save/load user administration ("User administration" Export/Import)

Figure 2-8



2.3.5 User administration

Figure 2-9



1. User logoff
2. Open login dialog

Table 2-3 Predefined users

User	Password
"user"	"password"
"administrator"	"administrator"

2.4 Creating an HMI project with the HMI template library

The following section describes how to use and customize the template library.

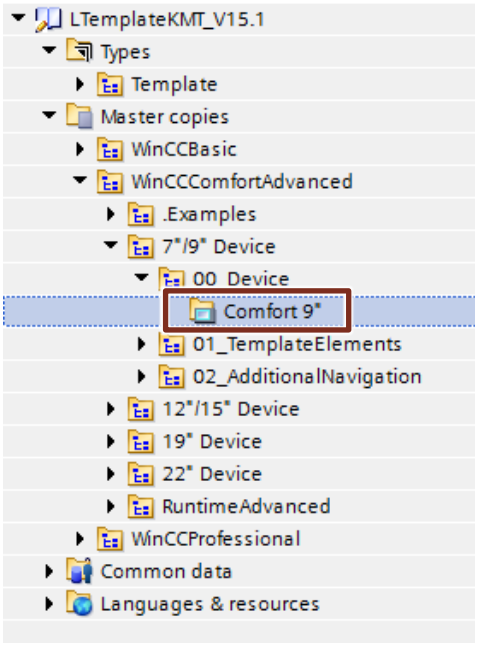
Requirement

- Existing TIA Portal project
- You must select at least English (USA) and German as the TIA Portal project languages.

2.4.1 Open template

1. Open the library "LTemplateKMT.zip"

   Figure 2-10



2. The HMI device templates in the library are sorted according to WinCC version and display size.
   Copy the desired HMI device from the library to your project. The configured operating devices are located in the "00_Device" folder.

Note If your operating device is not available, select a comparable device with a similar resolution from the library. Adjust the operating device to the new resolution with the menu command "Replace device" and the scaling settings. You will find information on further resolutions in section 2.4 .s

2.4.2 Adjusting navigation for a project

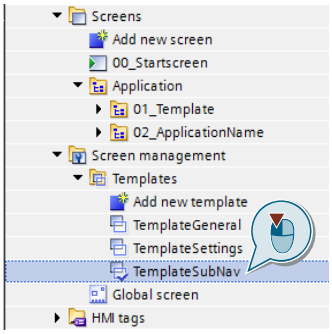
The template allows you to use an overview page from your application and up to five additional navigation buttons.

To avoid operating errors and increase clarity, remove unused navigation buttons.

Procedure

1. In the HMI device, open the template "TemplateSubNav".

   Figure 2-11

2. In the template "TemplateSubNav" in the lower bar, delete unneeded buttons from the project.

   Figure 2-12 View navigation bar

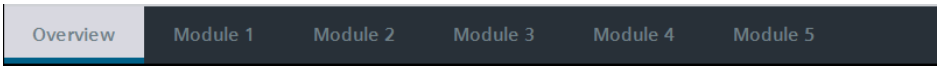
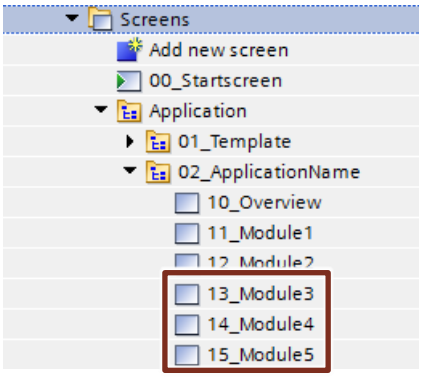
   

   Figure 2-13 View after removing the button

3. Delete the corresponding HMI images from the project.

   Figure 2-14

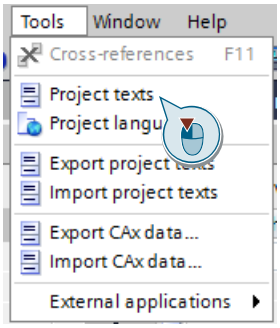
   

4. Assign descriptive names to the rest of the buttons and screens.

2.4.3 Adjusting project names

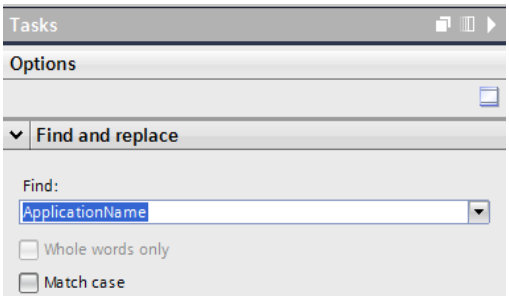
1. Open the project texts "Tools>Project texts"

   Figure 2-15



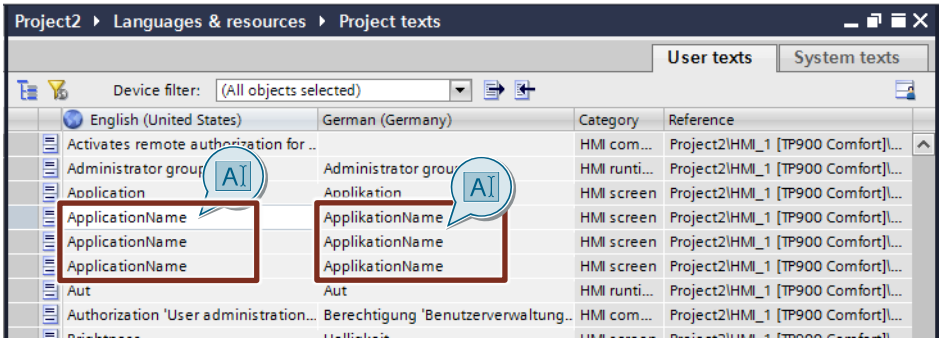
2. On the "Tasks" task card, open the "Find and replace" option

   Figure 2-16



3. Use the following terms:
   - 'ApplicationName' -> English project title
   - 'ApplicationName' -> German project title

   Figure 2-17



2.4.4 Updating the QR code on the Start page

Note

You can place a QRCode on the start page so that you can quickly access a website with a mobile device.

For application examples in Siemens Industry Online Support, you can use this QR Code to refer, for example, to the documentation of the example or to operating instructions.

The current QR code on the start screen links to the Industry Online Support home page. Exchange the QRCode according to your intended use. The QRCode has a size of 91x91 px.

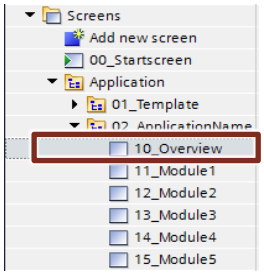
Advantage:

The QR code provides quick access to the documentation of the project from a mobile device.

2.4.5 Adjusting the overview screen of the application

The Start image of the application is "10_Overview". Open the HMI image and adapt the overview page to your application.

Figure 2-18 Overview page "10_Overview"



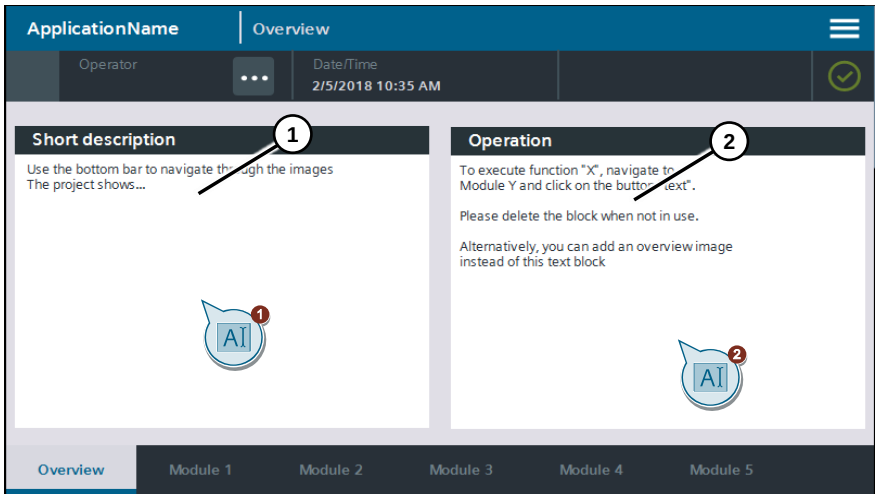
The Overview page "10_Overview" has the following design:

Version with function block

In the first block (1) you write a short motivation and introduction, what the HMI project can be used for and what should be shown.

In the second block you write information about the operation of the project, e.g. which buttons are to be pressed in which order.

Figure 2-19



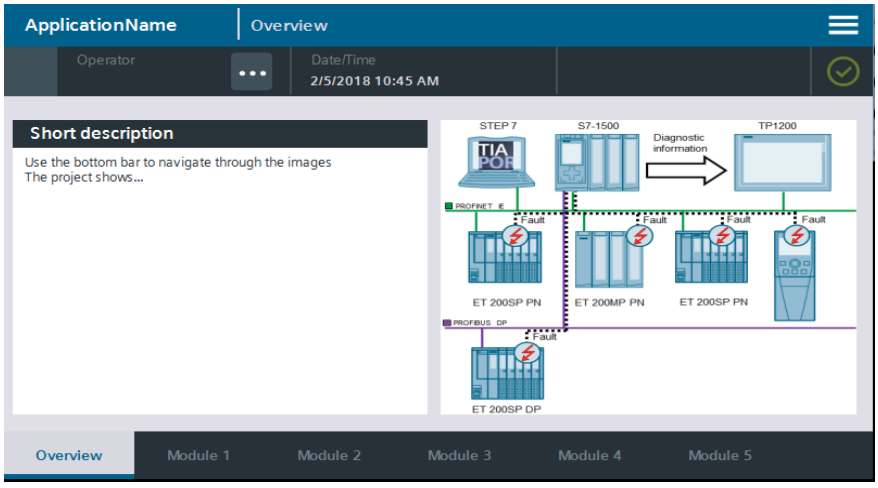
Procedure:

1. Add a short description of your application (left) and explain how it works (right).
2. If the operation of the sample application is self-explanatory, remove the right block.

Version without function block

If you do not need a functional description, use an overview screen instead. The screen shown in the image is an example.

Figure 2-20



2.5 Efficient engineering (Tips and tricks)

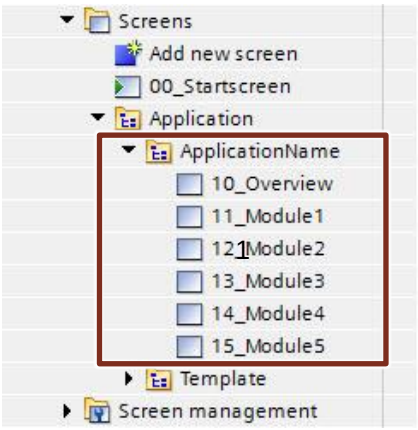
In order to achieve a high level of recognition in HMI projects, the following adaptations to the project are proposed.

The following suggestions are optional, which means they can be omitted. Use the objects contained in the library and adhere to the design guidelines.

2.5.1 Application

Project the HMI images of the application in the folder "02_ApplicationName".

Figure 2-21



The existing images are already linked to the corresponding navigation button.

Add new HMI screens from the library from the subfolder "01_Examples> 01_Screens> 00_newScreen".
The stored HMI screen contains the predefined layers and the correct background color.

2.5.2 HMI style

In the HMI styles, a unique style is defined for the HMI objects.

Many configuration tasks can be covered using these styles. In special cases, you may deviate from the styles.

The naming of styles differs according to the field of application:

Table 4

Designation	Function
".ExampleStyle"	Style objects with the prefix "." (dot) are intended for sample project planning.
"ExampleStyle"	Style objects without a prefix are intended for the template.

In the HMI style "styleTemplate", the following designs are defined for standard objects:

Figure 2-22 HMI button styles:

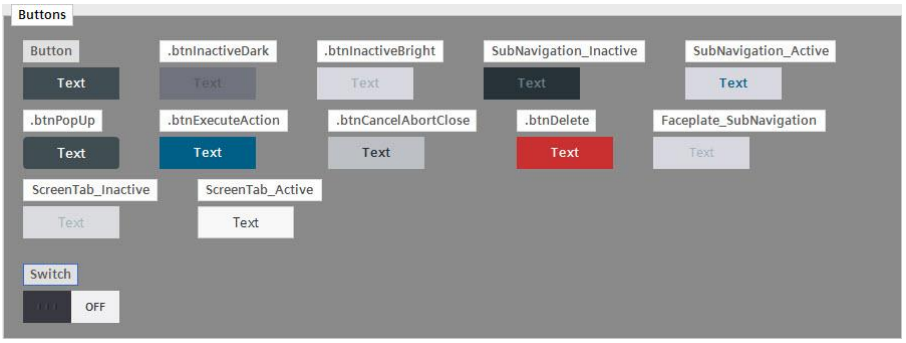


Figure 2-23 HMI text styles:

Table 5 Name of the text styles

Object	Normal font	Bold font
small font (15 px) /19	.txtSmall	.btxtSmall
normal font (19 px) / 23	.txtMedium	.btxtMedium
large font (23 px) /27	.txtLarge	.btxtLarge

Figure 2-24 HMI rectangle styles (colors)

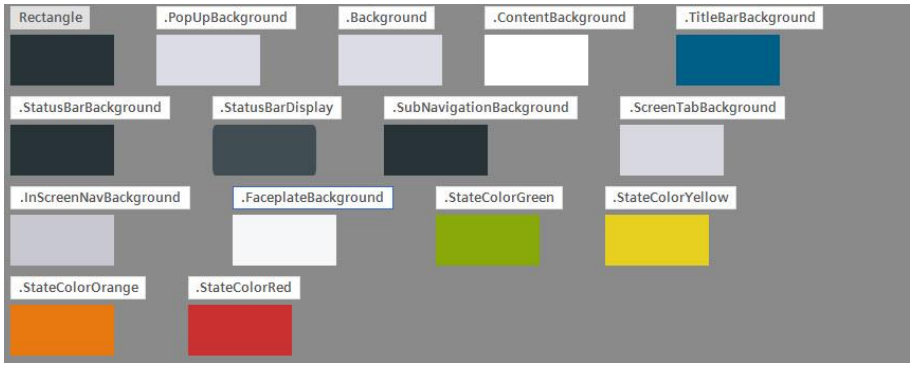
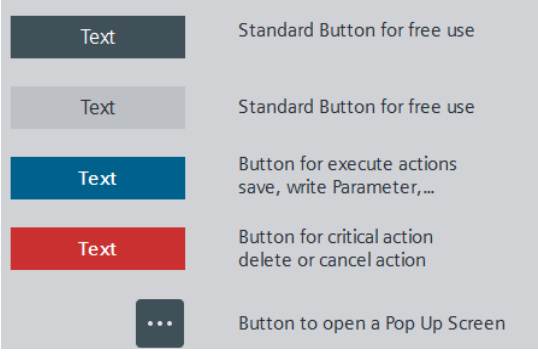


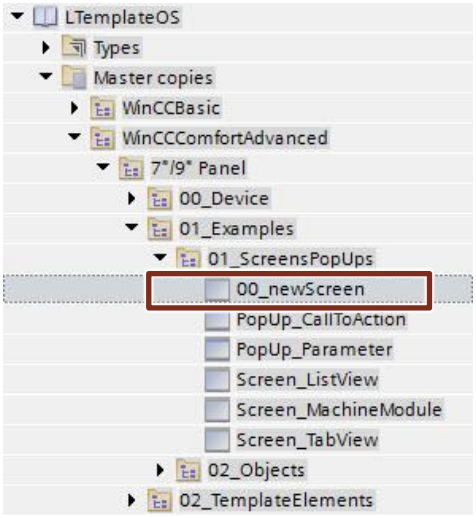
Figure 2-25 Buttons with instructions for use



2.5.3 Add new HMI screen

An empty HMI image is stored in the library, which has the same properties as the HMI images configured in the template.
To add a new HMI screen, drag the screen template "00_newScreen" from the library into your HMI device.

Figure 2-26



2.5.4 Configuration deviating from the defined HMI style

The predefined HMI styles do not cover all the objects and visualization options offered by WinCC Comfort. If you want to use objects for which there is no predefined HMI style, read the following hints and tips:

Hint

Use an existing style as a template:

First select an HMI style for an object. Deactivate the style for this object directly afterwards.

Result: The object retains the design of the HMI style and you can customize it for your application.

Note Configure in the same design as the template.

2.5.5 Darken screen

The HMI variable "ScreenInactive" can be used to darken the images present in the template, e.g. when calling up a pop-up image. To do this, you must set the following variable. All HMI images of the template are projected accordingly.

Table 6

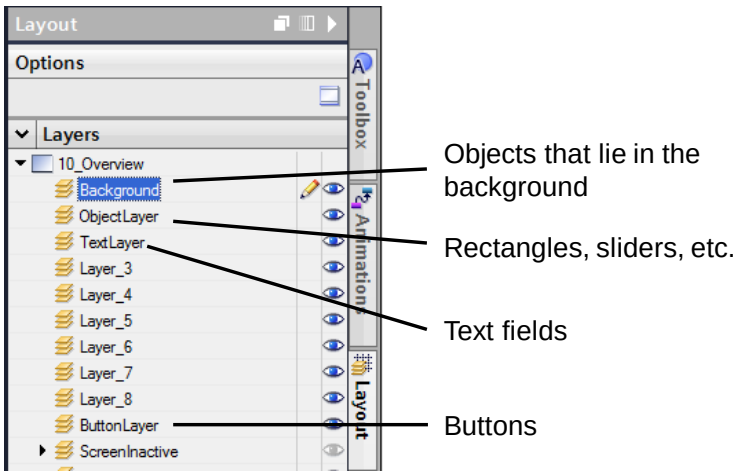
Variable	Property
"ScreenInactive" = true	Screen darkened
"ScreenInactive" = false	Screen normal

This property is resolved by a semitransparent screen that is made visible by the "ScreenInactive" variable.

2.5.6 Using the Layer view

By default, the HMI images in the 02_ApplicationName folder contain the following layout structure:

Figure 2-27 Assignment of predefined layers



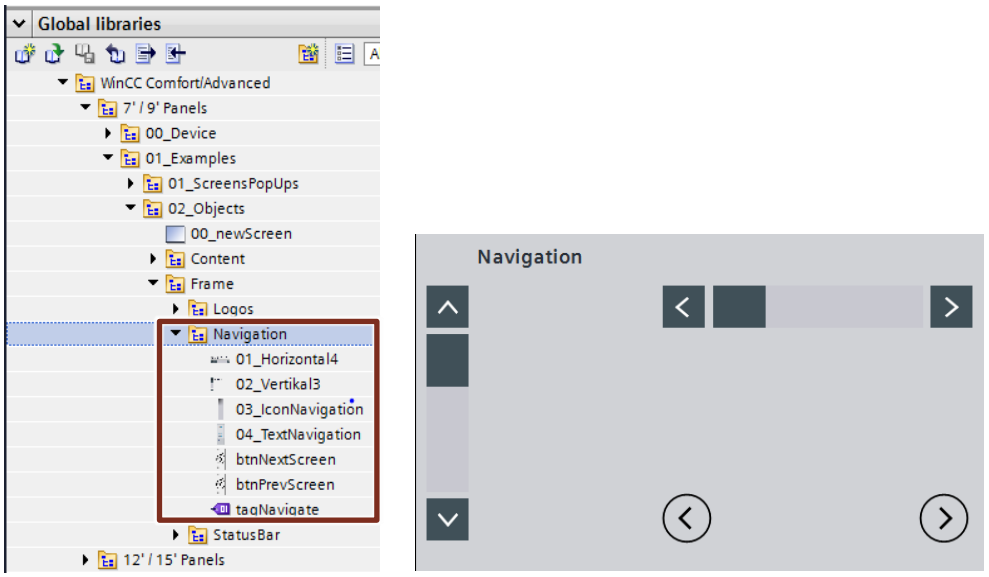
Structuring according to these categories offers the advantage that objects can be changed more effectively thanks to the deactivation of individual levels.

2.5.7 Other navigation options

By default, you can configure the application to a maximum of five HMI screens. If the number of images is insufficient, you can create multiple images within a module, which are then switched directly on the HMI image using navigation elements.

There are several templates in the library in the folder "01_Examples> 02_Objects> Frame> Navigation".

Figure 2-28

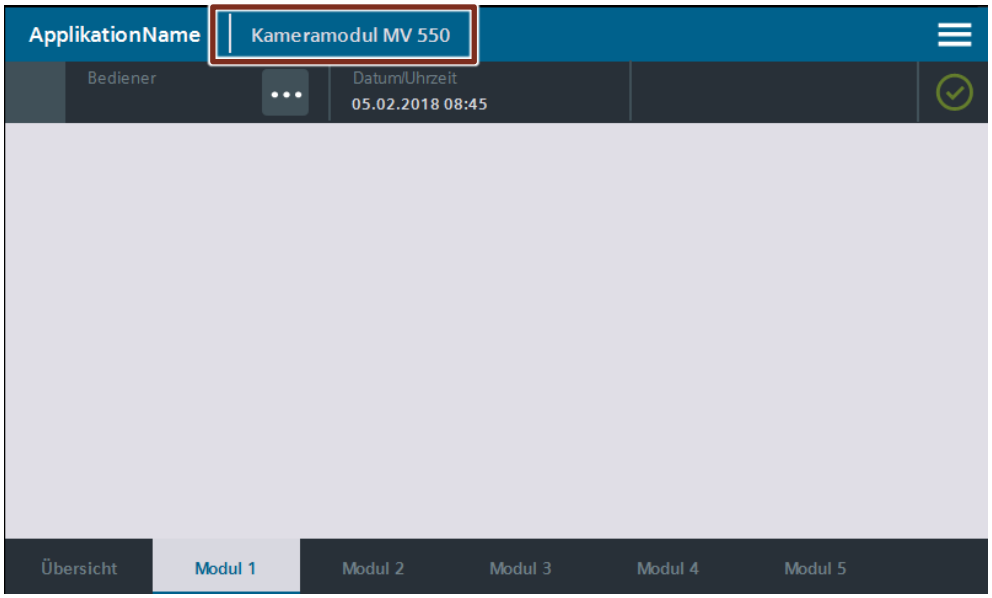


You can use these template elements to create additional navigation levels. For the animation of the elements, the HMI tag "tagNavigate" is used.

2.5.8 Additional text in the title bar

If the text on the navigation buttons is not sufficient, you can optionally add a subtitle in the title bar.

Figure 2-29



Procedure

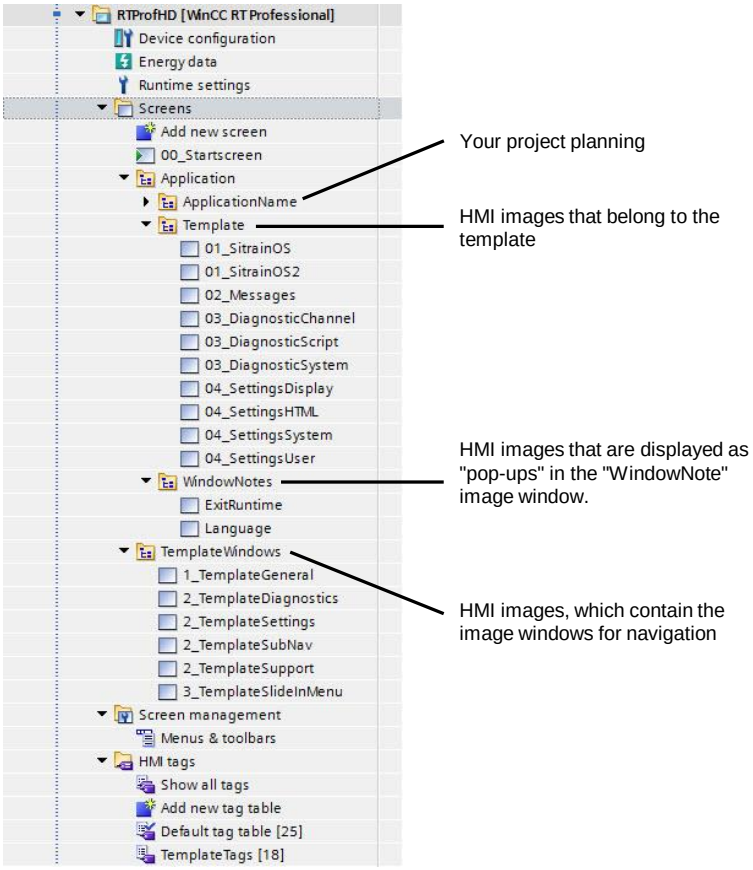
1. Open the HMI screen on which you want to add the subtitle.
2. Open the "LTemplateKMT" library and drag the "txtSubTitle" object group from the "00_Elements" folder to the top of the image. Change the texts (EN/DE).
3. Make sure there is a sufficient distance to the main title.

2.6 WinCC Professional project

The template was implemented for WinCC Professional with the resolution 1920x1080 px.
Due to the functional scope of WinCC Professional, the HMI styles and pop-up images in WinCC Professional have been replaced by image windows.

This section explains the most important features and differences.

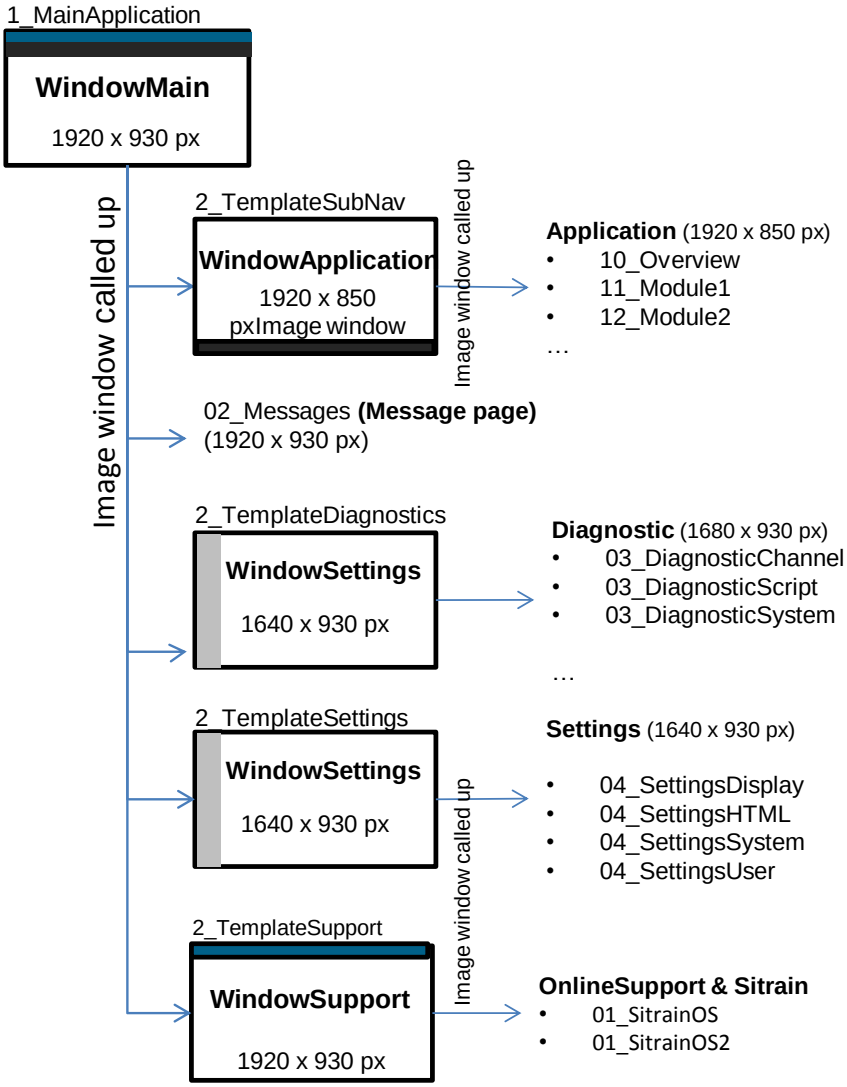
Figure 2-30 Overview Runtime Professional



2.6.1 In-screen window technology concept

The navigation, which is solved in WinCC Comfort with "image templates" and pop-up images, is configured in WinCC Professional with different image windows as follows:

Figure 2-31 Image window technology WinCC Professional



In-screen window hierarchy

- All HMI pictures are called up via the main screen "1_TemplateGeneral" in the in-screen window "WindowMain". The main picture contains the title bar as well as the status bar.
- The in-screen window "WindowApplication" in the main in-screen window is called up for the application.
- The HMI screen "2_TemplateApplication" contains the in-screen window as well as the navigation bar for the application.
- The settings are displayed in the "WindowSettings" in-screen window and the information on Online Support & SITRAIN is displayed in the "WindowSupport" in-screen window.
- Messages and the Diagnostics page are called directly in the main in-screen window "WindowMain".

The design of the template for WinCC Professional is identical to the design of the other templates, so the operation and the look and feel are indistinguishable.

WindowNote

Additionally, there is another in-screen window, "Window Note". This in-screen window is located above the main in-screen window "WindowMain" in the HMI screen "1_TemplateGeneral", meaning that this in-screen window replaces the "PopUp screen" in WinCC Comfort.
For the template it is used for changing the languages and for the note "End Runtime".

To use the in-screen window for other content, proceed as follows:

1. Configure a new HMI image in the desired size, e.g. "NoteMessageBoxSave"
2. Place the following script on a button, for example.

```
ActivateScreenInScreenWindow
„1_TemplateGeneral“,„WindowNote“,„NoteMessageBoxSave“
HMIRuntime.Screens(„1_TemplateGeneral“).ScreenItems(„WindowNote“).Left = 600
HMIRuntime.Screens(„1_TemplateGeneral“).ScreenItems(„WindowNote“).Top = 400
HMIRuntime.Screens(„1_TemplateGeneral“).ScreenItems(„WindowNote“).Visible =
True
```

Note Change the bold objects from the script to the value that matches your application. The ".Left" and ".Top" properties describe the position where the window is visible. The size of the in-screen window changes automatically.

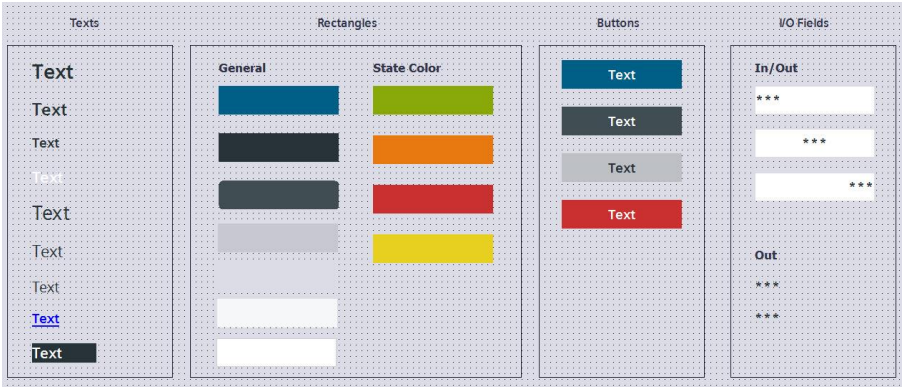
2.6.2 Differences in the configuration for WinCC Comfort

HMI styles

In WinCC Professional, you cannot use HMI styles.
To achieve a uniform look & feel, copy objects that have already been configured.

The HMI image "BasicStyleTemplateObjects" is stored in the library under "01_Examples". This contains the standard objects that correspond to the style of the template.

Figure 2-32 HMI screen "BasicStyleTemplateObjects"



Drag the screen into the Runtime Professional configuration and use the existing elements for your configuration.

Settings

In the Settings pages of Runtime Professional, you have direct access to the following Windows applications:

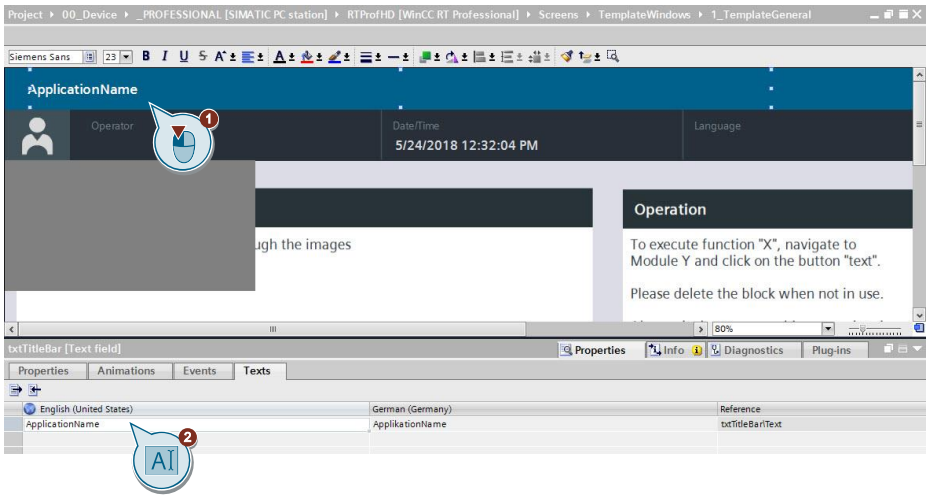
- Windows Calculator
- Task Manager
- PG/PC interface

2.6.3 Adjusting and configuring the WinCC Professional template

Adjusting project names

1. Open the "1_TemplateGeneral" screen.
2. Change the default text of the object "txtTitleBar".

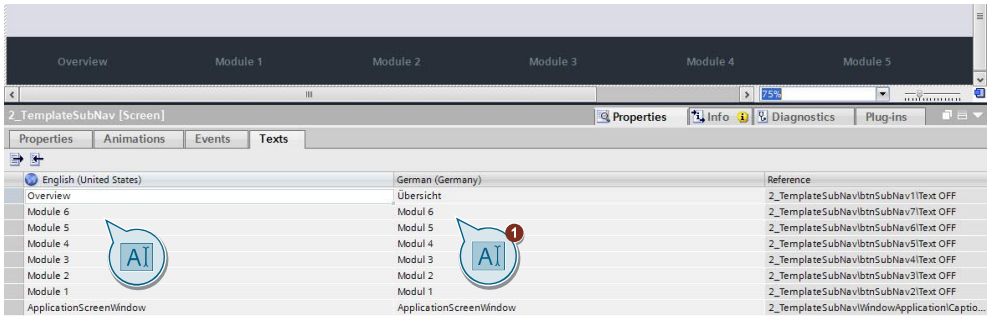
Figure 2-33



Adjusting navigation

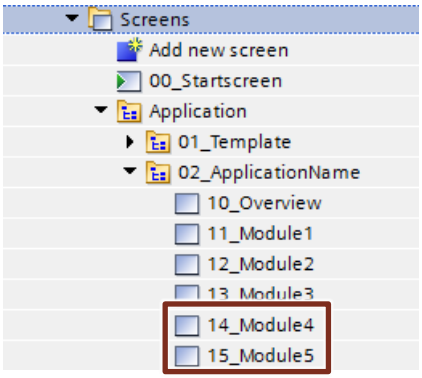
1. Open the "2_TemplateSubNav" screen.
2. In the Inspector window, select "Properties > Texts"

Figure 2-34



3. Change the texts of the navigation buttons in this editor.
4. Delete any navigation buttons in the "2_TemplateSubNav" screen which are not needed.
5. Delete the corresponding HMI images from the project.

Figure 2-35



Updating the QR code on the Start page

See Chapter 2, similar procedure as for WinCC Comfort

Adjusting the overview screen of the application

See section 2, similar procedure as for WinCC Comfort

3 WinCC V7 template

For WinCC V7.5, a single-user template is available that is based on the look & feel of the TIA portal templates.

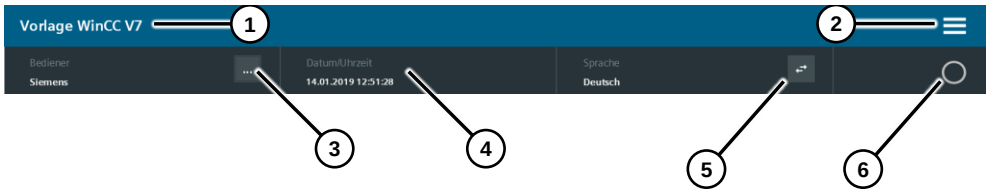
Due to the functional scope of WinCC V7.5, the implementation of the project planning does not correspond exactly to that of the other templates. This section describes the image recall concept and the navigation of the template for WinCC V7.5.

The template is designed for demo and test applications and was therefore created in the resolution 1600x900 px.

3.1 Function overview

3.1.1 Title bar and status bar

Figure 3-1



Status bar function

1. Title display
2. Opening the SlideinMenu

Status bar function: Display of the operator, the time and the current language. Diagnostic display on the right edge of the screen.

Status bar function

3. Log user on/off

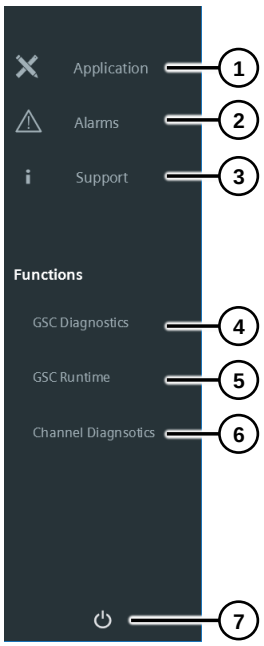
Table 3-1 Predefined users

"siemens"	"siemens"
"administrator"	"administrator"

4. Display time
5. Set language
6. Diagnostic display (can be connected to connection variable from the controller)

3.1.2 Slide-in menu

Figure 3-2



Functions

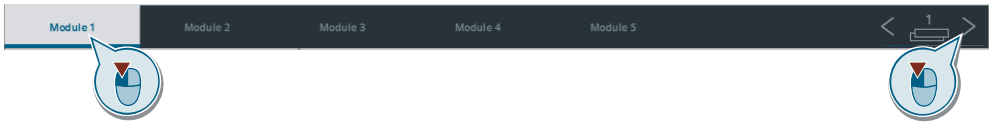
1. Open application example (Application/start page)
2. Open messages/alarms
3. Open Support (Links to Online Support and Sitrain)
4. Display GSC diagnosis (control, pop-up)
5. Display GSC Runtime (Control, Pop-up)
6. Display channel diagnosis (Control, Pop-up)
7. End runtime

Note If you click on one of the buttons 13, the menu closes automatically.

Alternatively, you can click a free area within the menu to close it.

3.1.3 Navigation bar

Figure 3-3



Operation

In the navigation bar you can switch between your projected plant displays. You can switch through the navigation bars at the right edge of the screen. The current navigation bar is indicated by the numbers (1 to 3).

Project planning of the switchover

Table 3-2

No.	WinCC screen
1	SubNavigation1.Pdl
2	SubNavigation2.Pdl
3	SubNavigation3.Pdl

3.2 Screen call concept

The WinCC V7 template uses an image window layer in comparison to the TIA portal.

All overlapping elements and functions can therefore be configured and changed in the "1_MainPage.Pdl" screen.

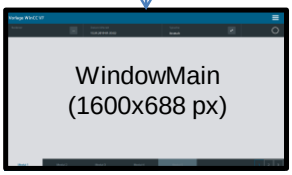
The WinCC screen "01_MainPage.Pdl" contains the windows for diagnostic display as well as the following screen windows:

Table 3-3

Screen window name	Function
WindowMain	Display of the operating screen ("11_Module1.Pdl")
WindowMenu	Slide-in menu display ("SlideInMenu.Pdl")
WindowSubNav	Display of the lower navigation bar ("SubNavigation1.Pdl")
WindowNote	Display of a notification, e.g. note on terminating the runtime ("Note_StopRuntime.Pdl")

00_StartScreen.Pdl

01_MainPage.Pdl



In the "WindowMain" image window, all images of the template are called up.

Template_Objects.Pdl

Example objects for integration into the application example

- Lines, IOFields, Texts, Buttons

Template_Objects2.Pdl

Example visualizations for integration into the application example

- Switches, bars, content to structure

3.2.1 Picture navigation

Use the buttons in the lower navigation bar to navigate between the individual HMI images. The configured WinCC images are displayed in the "WindowMain" image window.
On the right side of the navigation bar, you can switch between three different navigation bars, so that a total of 15 buttons are available.

Depending on which bar is active, "SubNavigation1.Pdl" to "SubNavigation3.Pdl" is displayed in the "WindowSubNav" image window.

Figure 3-4

3.2.2 Project Planning

The HMI images from "11_Module1" to "15_Module5" are already connected for "Module 15".

To extend these, proceed as follows:

1. Open the "SubNavigation2.Pdl".
2. Open the "Mouse click" event of any button.
3. Activate the commented out line and change the term "11_Module" to the name of the image you want to call with this button.

   Figure 3-5

```
Sub OnClick(Byval Item)

'Parent.Parent.ScreenItems("WindowMain").PictureName = "11_Module"

End Sub
```

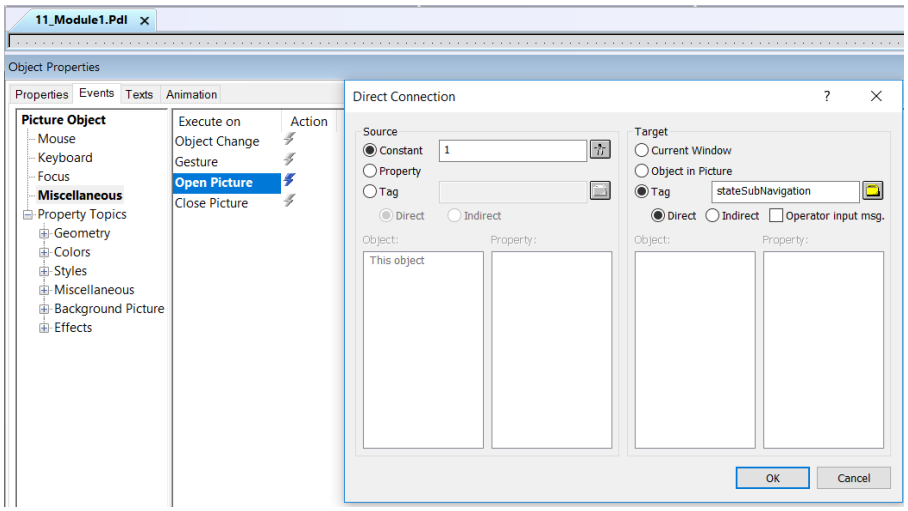
Highlight bar

Animations are already defined for the blue bar and the buttons to highlight currently active buttons. The variable "stateSubNavigation" is responsible for this.

Project Planning

For each page call of an image, set the variable "stateSubNavigation" to the respective value (1 to 15). The assignment of values is continuous. For the first control bar the values from 1 to 5 are reserved and for the third control bar the values from 11 to 15.

Figure 3-6 Example: for "Module1.Pdl" the value is set to "1".



Note For the first navigation bar, all project planning has already been carried out.

3.3 Differences compared to TIA Portal Templates

HMI style

You cannot use the HMI design templates in WinCC.
In order to achieve a uniform look & feel, use the already planned objects and use the design for your project planning.

The Graphics Designer provides two images with design templates for HMI objects and sample visualizations:

Template_Objects1.Pdl : Lines, IO Fields, Texts, Buttons

Tempalte_Objects2.Pdl : Visualization examples, switches, pointer instruments

Settings

The settings pages were not adopted in the WinCC Classic template, since the functions can be solved either with Windows functions or with WinCC board tools (e.g. User Control).

Diagnostic functions

The WinCC template contains the "GSC Diagnostics" and the "Channel Diagnostics" instead of the diagnostics page.
All diagnostic controls can be opened as "popups" in the slide menu.

3.4 Creating a project with the WinCC template

Procedure

Open the WinCC Project and update the computer name.

Open the WinCC Graphics Designer.

Open the screen "01_MainPage.Pdl".

Note

The image "01_MainPage.Pdl" contains image windows for calling the navigation elements (level 15: Slide-in Menu and Navigation Menu) and the windows for the diagnostic controls (level 11)).

The "WindowMain" main image window calls up the operating screen:

Adjusting the title

Change the title of the project at the top of the screen.

Adjusting navigation

1. Open the image "SubNavigation1.Pdl" in Graphics Designer.
2. Adapt the scripts for the page call to the project if necessary (see section 3.2.2).
3. If necessary, proceed in the same way with the images "SubNavigation2.Pdl" and "SubNavigation3.Pdl".

Writing an application

System screens are called in the WinCC screen "01_MainPage" in the screen window "WindowMain". Project plan in the resolution 1600x688 px.

4. Open the image "11_Module1.Pdl" in the Graphics Designer.

Configure your application here.
The screen "11_Module1.Pdl" is configured as the "start screen" for the application in the slide-in menu. All available pictures are already connected with the lower navigation.

Note To achieve a uniform design, use objects from the WinCC screens "Template_Objects.Pdl" and "Template_Objects2.Pdl".

Copy the desired objects and paste them onto your screen.

Note WinCC images that you do not need ("1X_ModuleX.Pdl") can be removed from the project. Note that you can remove the references to the deleted images in the bottom navigation.

3.5 General information

Note Existing icon images for the template are stored in the "Graphics" folder under "/icons", i.e. under "\TemplateKMT_WinCCV75\GraCS\icons".

4 Appendix

4.1 Service and support

Industry Online Support

Do you have any questions or need assistance?

Siemens Industry Online Support offers round the clock access to our entire service and support know-how and portfolio.

The Industry Online Support is the central address for information about our products, solutions and services.

Product information, manuals, downloads, FAQs, application examples and videos – all information is accessible with just a few mouse clicks:
https://support.industry.siemens.com

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The Technical Support of Siemens Industry provides you fast and competent support regarding all technical queries with numerous tailor-made offers – ranging from basic support to individual support contracts. Please send queries to Technical Support via Web form:
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- On-site and maintenance services
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- Service programs and contracts

You can find detailed information on our range of services in the service catalog web page:
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Industry Online Support app

You will receive optimum support wherever you are with the "Siemens Industry Online Support" app. The app is available for Apple iOS, Android and Windows Phone:
Fehler! Linkreferenz ungültig.

4.2 Links and literature

Table 4-1

No.	Topic
\1\	Siemens Industry Online Support https://support.industry.siemens.com
\2\	Link to the article page of the HMI templates https://support.industry.siemens.com/cs/ww/de/sc/2054
\3\	Link to the "HMI Template Suite" (application example) https://support.industry.siemens.com/cs/ww/en/view/91174767

4.3 Change documentation

Table 4-2

Version	Date	Change
V1.0	11/2018	First version
V 2.0	02/2019	WinCC Classic template updated