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SIMATIC HMI

WinCC V7.2 WinCC/WebNavigator

System Manual

Print of the Online Help

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.

A DANGER

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

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

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

NOTICE

indicates that property damage can result if proper precautions are not taken.

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:

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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.

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WinCC/WebNavigator Installation Notes

1.1 General information

Software Information Service

If you return the "WinCC Software Information Service" card, you will receive the latest information on all SIMATIC WinCC products.

Information about licensing terms

Please observe the license conditions which appear during the installation process. Please contact your Siemens AG representative for additional information.

Contents of the WinCC DVD for WinCC/WebNavigator

- WebNavigator server
- WebNavigator client
- WinCCViewerRT
- WebNavigator diagnostics client
- Web View Publisher
- WebNavigator Plug-In Builder
- Documentation
- Release notes

Note

Installation of WinCC/WebNavigator V7.2 is only released on the basis of WinCC V7.2

You cannot install the WebNavigator server/client of V7.2 on a computer with WinCC versions earlier than V7.2. Nor can a WebNavigator server/client version older than V7.2 be installed on a computer with WinCC V7.2.

Note that mixed use of European and Asian versions of WinCC and WebNavigator is not permitted in the configuration.

1.2 Requirements

1.2.1 Hardware and Software

Introduction

This section describes the hardware and operating system requirements for WinCC/ WebNavigator.

Note

A WebNavigator server cannot be operated on a WinCC client without a project of its own.

WebNavigator client

Table 1-1 Hardware

	Minimum	Recommended
CPU	Pentium II; 300 MHz	E.g. Intel Core 2 Duo, AMD Athlon64 or higher
RAM	256 MB	1 GB

Table 1-2 Software

Operating system Windows 7 SP1 32-bit		
	Windows XP Professional SP3	
	Windows Server 2008 Standard SP2 32-bit	
	Windows Server 2008 R2 Standard SP1 64-bit	
	Windows Server 2003 Standard SP2	
	Windows Server 2003 R2 Standard SP2	
	Via MS Terminal Services, also other operating systems such as WinCE, Win95	
	Windows XP Embedded in connection with Panel PC 477	
Software	Internet Explorer as of V7.0	
	If you want to use .NET and XAML controls, you will need to install .NET Framework 3.0.	
Other	Access to the intranet/Internet or a TCP/IP connection to the WebNavigator server	

Operation of the WebNavigator client via Wireless LAN has only been approved with SIMATIC Mobile Panel PC 12"

WebNavigator server on a WinCC single-user system

Table 1-3 Hardware			
	Minimum	Recommended	
CPU	Pentium III; 1 GHz	E.g. Intel Core 2 Duo, AMD Athlon64 or higher	
RAM	1 GB	2 GB	

Table 1-4 Software

Operating system	Windows 7 SP1 32-bit	
	Windows XP Professional SP3 (max. 3 clients)	
	Windows Server 2008 Standard SP2 32-bit	
	Windows Server 2008 R2 Standard SP1 64-bit	
Windows Server 2003 Standard SP2		
Windows Server 2003 R2 Standard SP2		
Software Internet Explorer as of V7.0		
WinCC Basic System V7.2		
Other Access to the intranet/Internet		
or a TCP/IP connection to the WebNavigator client		

WebNavigator server on WinCC server or WinCC client with its own project

	Minimum	Recommended
CPU	Pentium III; 1 GHz	E.g. Intel Core 2 Duo, AMD Athlon64 or higher
RAM	1 GB	> 1 GB

Table 1-6 Software

Operating system	Windows Server 2008 Standard SP2 32-bit	
	Windows Server 2008 R2 Standard SP1 64-bit	
	Windows Server 2003 Standard SP2	
	Windows Server 2003 R2 Standard SP2	
Software	Internet Explorer as of V7.0	
	WinCC Basic System V7.2	
Other	Access to Intranet/Internet	
	If you wish to publish on the Intranet , you will need a system that converts computer names into IP addresses. This step allows users to use alias names instead of IP addresses when connecting to the server.	
	You will need DNS registration for your IP address if you wish to publish on the Internet . This step allows users to use alias names instead of IP addresses when connecting to the server.	

WebNavigator diagnostics client

Table 1-7 Software

Operating system	Windows 7 SP1 32-bit	
	Windows XP Professional SP3	
	Windows Server 2008 Standard SP1 32-bit	
	Windows Server 2008 R2 Standard SP2 64-bit	
	Windows Server 2003 Standard SP2	
	Windows Server 2003 R2 Standard SP2	
Software	Internet Explorer as of V7.0	
Other	Access to Intranet/Internet	

1.2.2 Licensing

WebNavigator client

No license is required for the PC on which the WebNavigator client is running, as server licenses are available on the WebNavigator server.

WebNavigator server

As a prerequisite for the WinCC basic system, the WinCC RT basic license is required. No WinCC server license is required if no local WinCC clients are to be operated. Even when operating a WinCC client as a dedicated web server, you do not require a WinCC server license for the WinCC client.

Without license, WebNavigator server will run in demo mode for 30 days. However, you need a license to use WebNavigator server on a permanent basis. Licenses are available for 1/3/5/10/25/50 clients that can simultaneously access the WebNavigator server.

A message will appear if the number of licensed clients is exceeded during a login attempt by a WebNavigator client. No further logins will be possible.

WebNavigator diagnostics client

A "Diagnostics client" license is required on the client computer for the diagnostics client. The diagnostics client can access up to 18 WebNavigator servers simultaneously.

If a license for WebNavigator server or for WebNavigator diagnostics server is installed on the server, the diagnostics client will have access even if the maximum number of clients is exceeded.

WebNavigator diagnostics server

This license allows the WebNavigator diagnostics client to access the WebNavigator server if there is no WebNavigator server license for WebNavigator clients installed on the WebNavigator server.

In total, simultaneous access to up to 50 diagnostics clients per server is permitted.

Overview of licenses for WebNavigator server and client

Server	Client has no license	Client has diagnostics client license
WebNavigator server license + WinCC license	WebNavigator client To max. number of server licenses	Diagnostics client One license per diagnostics client
WebNavigator diagnostics server license + WinCC license	Demo client Unlimited number	Diagnostics client One license per diagnostics client
No WebNavigator license or no WinCC license	Demo client Unlimited number	Demo client Unlimited number
WebNavigator server license + WinCC license + "Load Balancing" license	WebNavigator client To max. number of server licenses	Diagnostics client One license per diagnostics client
WebNavigator server license + WinCC license + WinCC redundancy license + "Load Balancing Step-Up" license	WebNavigator client To max. number of server licenses	Diagnostics client One license per diagnostics client

You can combine WebNavigator and diagnostics licenses.

Restarting the WebNavigator client after license modification

If the WebNavigator licenses on the WebNavigator server are modified, e.g. to a different number of clients, Internet Explorer must be restarted on each connected WebNavigator client, and the WebNavigator client must log in again. Otherwise, the WebNavigator client will switch to demo mode. This also applies to automatic reconnection of the WebNavigator client.

Note

Diagnostics client without corresponding license

If the diagnostics client is installed without the respective license, a message will appear about one hour after each start-up of the computer. Install the diagnostics client license or remove the diagnostics client software.

Computer with WinCC basic system and diagnostics client

If you install a diagnostics client on a computer with the WinCC basic system, you will have to reinstall the diagnostics client after removing WinCC.

1.2.3 Requirements for the Use of Terminal Services

The WebNavigator client is released for Windows Terminal Services. A maximum of 25 sessions per terminal server are permitted.

Terminal server

Table 1-8 Hardware

	Minimum	Recommended
CPU	Pentium III; 1 GHz	E.g. Intel Core 2 Duo, AMD Athlon64
RAM	1 GB	> 1 GB

Note

Each terminal client will increase the memory requirements and the processor load. You must therefore ensure that the terminal server has adequate memory and processor load capacity.

Table 1-9 Software

Operating system	Windows Server 2008 SP2 32-bit or 64-bit Server 2008 R2 SP2 64-bit Windows Server 2003 SP2 or Server 2003 R2 SP2	
	It must be possible to repeatedly call and execute applications that are to be executed on the clients.	
Other:	If many users want to access the server, you will need to use a high- performance network card.	

Terminal client

 Network card with TCP/IP Terminal client RDP 5.0 Display or monitor
Pointing device

Note

As with Windows Server CAL, there are two different CAL terminal services:

- The TS device CAL enables a device to run user-independent Windows sessions on a Windows Server.
- The TS user CAL enables a user to run device-independent Windows sessions on a Windows Server.

A Windows Server Terminal Server CAL "TS CAL" is required for every user or every device.

Please go to "http://www.microsoft.com/resources/sam/lic_cal.mspx" for more information.

See also

http://www.microsoft.com/resources/sam/lic_cal.mspx (<u>http://www.microsoft.com/resources/</u> sam/lic_cal.mspx) 1.3 Installing a WebNavigator server

1.3 Installing a WebNavigator server

1.3.1 Overview

Requirements

- The software requirements for the Windows operating system have been met.
- Local administrator rights.
- The WinCC basic system is installed.

Installation Overview

- 1. Installation of the Internet Information Server (IIS).
- 2. Installation of the WebNavigator server.

Note

WinCC options previously installed

If you have already installed other WinCC options prior to the installation of WinCC/ WebNavigator, you may have to re-install these options.

Installation sequence for the WebNavigator server for Windows 7 and Windows XP

Follow the installation sequence below when installing a WebNavigator server on a computer running Windows 7 or Windows XP:

- 1. Install the Internet Information Service (IIS).
- 2. Install the SQL server.
- Start the "Web Configurator" in the Windows start menu by selecting "SIMATIC > WinCC > Web Configurator" and configure the WebNavigator server.
- 4. Start the Security Control in the Windows start menu by selecting "Programs > Siemens Automation > Security Controller" and configure the security settings.

See also

Installing the Internet Information Server (IIS) (Page 15) Installing the WebNavigator server (Page 16)

1.3 Installing a WebNavigator server

1.3.2 Installing the Internet Information Server (IIS)

Settings

Before installing the WebNavigator server, you must first install the Internet Information Service (IIS). You specify the settings for the WebNavigator server during installation.

Activate the following settings under Windows 7 and Windows Server 2008:

- Web management tools:
 - IIS management service
 - IIS management console
 - IIS management scripts and tools
 - Compatibility with IIS Metabasis and IIS 6 configuration
 - Compatibility with WMI for IIS 6
- WWW services > General HTTP features:
 - Standard document
 - Static content
- WWW services > Application development features:
 - ASP
 - ISAPI extensions
 - ISAPI filters
- WWW services > Security:
 - Requirement filtering
 - Standard authentication

Note

If the logging functions are active with IIS, the log files must be monitored and deleted, if necessary. The event views should be configured so that the log files do not become too large.

Requirements

- Administrator rights
- Write access for the registration database

Procedure

- 1. Insert the Windows installation data medium into the drive.
- 2. From the Windows start menu, select the entry "Settings" > "Control Panel."
- 3. Click the "Software" icon.

1.3 Installing a WebNavigator server

- 4. Open the "Add or Remove Programs" dialog and click "Add or Remove Windows Components". The wizard for Windows components will open.
- 5. Select the checkbox preceding the "Internet Information Service (IIS)" item in the selection window.
- 6. Activate the specified settings under Windows 7.
- 7. Close the dialog with the "OK" button. The required data is transferred and the IIS is configured accordingly.

Alternative procedure

Alternatively, you can use the command line "Start > Run > cmd" to install the IIS components located on the installation data medium:

pkgmgr.exe /iu:IIS-WebServerRole;IIS-WebServer;IIS-CommonHttpFeatures;IIS-StaticContent;IIS-DefaultDocument;IIS-HttpErrors;IIS-ASPNET;IIS-ASP;IIS-ISAPIExtensions;IIS-ISAPIFilter;IIS-BasicAuthentication;IIS-WindowsAuthentication;IIS-ManagementConsole;IIS-ManagementService;IIS-IIS6ManagementCompatibility;IIS-Metabase;IIS-WMICompatibility

Procedure for Windows Server 2008

Configure the settings for the Windows Server 2008 in the Server Manager via the role "Webserver (IIS)" in the associated role services.

1.3.3 Installing the WebNavigator server

Requirements

- Local administrator rights
- The Internet Information Server is installed.

Procedure

- Insert the WinCC DVD in the drive. The DVD starts automatically if Autorun is enabled in the operating system. If the autorun function is not activated, start the program Setup.exe on the DVD.
- 2. In the "Installation Type" dialog, select "Package Installation".
- 3. Select the "WebNavigator Server" installation.
- Before the installation, the security settings that are adapted for WinCC are displayed in the "System Settings" dialog. The firewall is configured automatically. Confirm the changes to the system settings.
- Start the installation. You can track the status of the installation in the displayed dialog. Select "Cancel" to cancel the installation.

6. You can transfer the license key for the product after installation of the WebNavigator server. To do so, click on "Transfer License Key." Select "Next" if you have already transferred the license key or want to install it at a later time.

Note

License keys will not be transferred automatically. You will have to transfer missing license keys during or after installation with "Automation License Manager" .

7. Restart the computer when prompted to do so by setup.

Result

The WebNavigator server is installed and is displayed in the navigation window of the WinCC Explorer.

Upgrading the WebNavigator server

If an older WebNavigator server is already installed, this will be recognized by the setup and installation will not be possible.

- A WebNavigator server can only be upgraded to a newer version if the WinCC basic system is upgraded.
- 1. Remove the older version of the WebNavigator server using "Change or remove software/ programs" in the control panel.
- 2. Install the new version of the WinCC basic system as an upgrade without previous manual removal.
- 3. Install the new version of the WebNavigator server.

WinCC/WebNavigator Installation Notes

1.4 Installing the WebNavigator client

1.4 Installing the WebNavigator client

1.4.1 Installing the WebNavigator client

Introduction

You can install the WebNavigator client as follows:

- Installation from the WinCC product DVD. In this case, certain Windows user rights are necessary, depending on the operating system.
- Installation via the Intranet/Internet.
 In this case, certain Windows user rights are necessary, depending on the operating system.
- Installation without user interaction:
 - Using the Windows user rights of the current user
 - Or in networks, using group policy-based software distribution

In addition, you can also install the WebNavigator client on the WebNavigator server. This is useful, for example, if you want to check the WinCC project locally on the server in Internet Explorer.

Note

.Net controls on the WebNavigator client

If you wish to use .Net controls on the WebNavigator client, you need to install the .Net Framework 4.0 on the client.

WinCCViewerRT

The web viewer "WinCCViewerRT" is installed upon installation of the WebNavigator client.

1.4 Installing the WebNavigator client

Procedure

- 1. Entry and check of the settings of the client computer in Internet Explorer.
- 2. Installation of the WebNavigator client.

Note

If you are installing from the DVD or using software distribution based on group policy, you can directly upgrade an older version of the WebNavigator client without having to remove the older client first.

If you install the WebNavigator server on a PC after the WebNavigator client, you will have to install the client again.

Plug-in reinstallation

The plug-ins "User Archive Control", "FunctionTrend Control", "Hardcopy" and "Web Client" are already integrated in the WebNavigator client as of version V7.0 upon installation.

If a WebNavigator client as of V7.0 is connected to a WebNavigator server older than V7.0 (e.g. V6.2 SP3), you will be offered these plug-ins for installation in the download area of the Web navigation user interface.

The plug-ins are already installed. Do not reinstall these plug-ins.

Information on the setup and installation of the WebNavigator client:

- Before downloading and installing a new version on the WebNavigator client, check the languages installed on the client and connected server. Only the languages of the connected server will be available on the client computer following client installation by download.
- WebNavigator client setup will be interrupted with the error message "WinCC Active" if the local WinCC project is open or has been opened since the PC was last restarted. Restart the computer. Check whether WinCC has been included in the Autostart directory. Remove the entry if necessary and then restart the computer to execute WebNavigator client installation.
- You will need at least 70 MB of free memory space on the local hard disk to install the WebNavigator client. Otherwise, the MSI setup will cancel installation with a corresponding error message.
- When installing the WebNavigator client by downloading it from the Intranet/Internet, you
 can select to either "Open" or "Save" the setup file. The procedure you select upon initial
 installation of the WebNavigator client must also be selected for the subsequent installation
 of plug-ins or ActiveX controls. Otherwise, the "MSI Installer" service will output the error
 message "Error 1316".

1.4 Installing the WebNavigator client

- In Windows XP, installation of the WebNavigator client can be accelerated if you deactivate the setting "Automatically search for network folders and printers" before you commence installation. Open the "Folder options" dialog using the menu item "Tools > Folder options" in Windows Explorer. Deactivate this option in the "View" tab under "Files and Folders". Click on the "Apply to all" button.
- In the download area of the Web Navigation user interface, the Plug-Ins which can be installed are displayed. The same minimum user rights are required for installing these plug-ins as for installation of the WebNavigator client. If you select a plug-in in the Web Navigation user interface, WebNavigator client setup will start. You will have to confirm the selected plug-in again.

Upgrading the WebNavigator client from a previous version

The current version of the WebNavigator client can be downloaded and installed from the website "www.wincc.de" on the "WinCC/WebNavigator and WinCC/DataMonitor demo access" page using the "WebNavigator" link.

Upgrade from WinCC V6.2 SP3

Perform a repair installation after upgrading from WinCC V6.2 SP3. To do so start the WinCC/ WebNavigator client installation with "Settings > Control Panel > Software" and select "Repair". Otherwise, controls may be reinstalled during operation. Restart the computer.

Installing the WebNavigator client under Windows Server

Installation of the WebNavigator client under Windows Server with a lower user authorization than "Administrator" is not possible in the default setting of group policies. Enable the installation of the WebNavigator client in the group policy by

- Assigning and making the software public
- Or activating the setting "Always install with elevated privileges" under "Administrative Templates / Windows Components / Windows Installer". You must activate "Never" for the "Deactivate Windows Installer" option.

1.4.2 User rights, user groups and optional installation possibilities

Windows user rights required for installation and initial registration of the WebNavigator client

"Administrator" rights are required for installing the WebNavigator client via Intranet/Internet or using the product DVD. The initial registration of the client on the WebNavigator server must take place with the user identification used during installation and the same or higher Windows user rights. The connections must be established successfully. All subsequent logins can then be performed by users with different Windows user rights, which may be more restricted.

WinCC/WebNavigator Installation Notes

1.4 Installing the WebNavigator client

Installing the WebNavigator client with limited Windows user rights

The MSI technology used allows you to install the WebNavigator client even with limited Windows user rights. This procedure can be set during the installation using the group policy based software distribution in networks.

Even the add-ins and plug-ins for the WebNavigator client can be installed. "Administrator" rights are required for the installation of plug-ins that were created with the WinCC Plug-In Builder.

Installation for a configured group of users or computers

Using the Microsoft Systems Management server or group policy on a Domain Controller, it is possible to install a group of users or computers configured by the Administrator.

- For this the MSI file "WinCCWebNavigatorClient.msi" is published at the Domain Controller and enabled for a user group. Installation is then performed either during login of the defined users or when the computer is started, depending on the configuration of the group policybased software distribution.
- When using a Microsoft Systems Management Server, the installation is configured by the administrator, triggered and executed when the relevant computer boots.

Group policy-based software distribution

Software is normally installed with the access rights of the current Windows user. When using MSI technology, the installation is performed by an operating system service with a higher level of rights. This enables installations for which the Windows user does not have the necessary rights. Applications which require higher rights for installation are referred to as "privileged installations" in MSI technology. Installation of these applications is possible when a Windows user is assigned the "Always install with elevated privileges" permission.

A group policy is created in the domain controller for use of group policy-based software distribution. The software to be distributed is then assigned or made public using Active Directory.

- Assignment: Software distribution can be assigned to a user or a computer. The software to be distributed is automatically installed when the user logs in or the computer is started.
- Publication: The software distribution can be published for individual users. When the user logs on to the client computer, the software to be distributed appears in a dialog and can be selected for installation.

Installation without user interaction

During installation of the WebNavigator client, the user is normally prompted to enter information, for example on the components to be installed. By implementing a configuration file, installation is possible without user interaction. The required path specification and user information are provided in the "options.ini" configuration file. The file must be in the same directory as the WebNavigator client setup.

This installation procedure is useful if group policy-based software distribution is being used.

Installation from the product DVD requires user interaction.

The settings predefined in the table are used under the following conditions:

1.4 Installing the WebNavigator client

- The "options.ini" configuration file is missing and there is no corresponding entry available in the client registry, for example due to another installed SIMATIC HMI product.
- The installation is performed via group policy-based software distribution with assignment to the computer.

Information	Parameters	
Target directory for WebNavigator client	INSTALLDIR=" <syspath1>\Siemens\WinCC"</syspath1>	
Target directory for common components	COMMONDIR=" <syspath2>\Siemens "</syspath2>	
User information / user name	USER	
User information / organization	COMPANYNAME	

The "<syspath?>" parameters result from the settings in the registry under the key "HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion" :

- "<syspath1>" corresponds to the key "ProgramFilesDir" e.g. "C:\\Program Files"
- "<syspath2>" corresponds to the key "CommonFilesDir", e.g. "C:\\Program Files\\Common Files"

Example of a "options.ini" configuration file

The configuration file specifies the user information and the target directories. In this example, only the standard language "English" is installed. If you want to install an additional language, assign the value "1" to the parameter, for example "DEU=1".

```
[USERINFO]
USER=Integration
COMPANYNAME=Siemens AG
[INSTALLPATH]
```

```
COMMONDIR=" C:\Program Files\Common Files\Siemens "
INSTALLDIR=" C:\Program Files\Siemens\WinCC "
```

[FEATURES] DEU=0 FRA=0 ITA=0 ESP=0

WinCC/WebNavigator Installation Notes

1.4 Installing the WebNavigator client

1.4.3 Internet Explorer Settings

Introduction

You have to adapt the Internet Explorer security settings in order to utilize full functionality of the WebNavigator Client.

Procedure

- 1. Click "Tools > Internet Options" in Internet Explorer.
- Select the "Security" tab. Select the corresponding zone, for example, "Local Intranet" or "Internet".
- 3. Click "Custom Level...".
- 4. Enable the "Script ActiveX controls marked safe for scripting" and "Download signed ActiveX controls" options.
- 5. Enable "Active Scripting" under "Scripting".
- 6. Click "OK". Carry out the modifications in the subsequent dialog.
- 7. Click the "Trusted Sites" icon. Click the "Sites..." button to open the "Trusted sites" dialog.
- Enter the address of the WebNavigator Server in the "Add this website to the zone" field. Possible formats and wildcards include "*://157.54.100 - 200", "ftp://157.54.23.41", or "http:// *.microsoft.com".
 Deactivate the "Require server verification (https:) for all sites in this zone" option. Click "Add". Click "OK".
- Click the "Trusted Sites" icon. Click the "Standard level" button and then the "Custom Level" button. Enable "Initialize and script ActiveX controls not marked as safe". Click "OK".
- 10.Click on the "General" tab.
 - Click in the "Settings" area on the "Temporary Internet Files" button. Enable the "Automatic" option under "Check for newer versions of stored pages:". Click "OK".
- 11. Close the "Internet Options" dialog by clicking "OK".

1.4.4 Installation from the DVD

Requirements

- For the installation and use of the WebNavigator client, the information in Internet Explorer Settings (Page 23) applies.
- Depending on the operating system, specific minimum user rights are required to install the WebNavigator client; see User rights, user groups and optional installation possibilities (Page 20).

1.4 Installing the WebNavigator client

Procedure

- Insert the WinCC DVD in the drive. The DVD starts automatically if Autorun is enabled in the operating system. If the Autorun function is not activated, start the program Setup.exe on the DVD.
- 2. In the "Installation Type" dialog, select "Package Installation".
- 3. Select the "WebNavigator Client" program package.
- 4. Before the installation, the security settings that are adapted for WinCC are displayed in the "System Settings" dialog. The firewall is configured automatically. Confirm the changes to the system settings.
- 5. Start the installation. You can track the status of the installation in the displayed dialog. Select "Cancel" to cancel the installation.
- 6. Restart the computer when prompted to do so by setup.

Result

The WebNavigator client is now installed and has been added as a function to the navigation window of the WinCC Explorer.

1.4.5 Installation via the Intranet/Internet

Requirements

- For the installation and use of the WebNavigator client, the information in Internet Explorer Settings (Page 23) applies.
- Depending on the operating system, specific minimum user rights are required to install the WebNavigator client; see User rights, user groups and optional installation possibilities (Page 20).
- The WebNavigator server must be installed on a computer. The Internet Information Server must be configured with the WinCC Web Configurator. The users must be registered in the WinCC User Administrator. The WinCC project must be in runtime.

Procedure

- Go to the address bar of Internet Explorer and enter the URL "http://www.servername" of the WebNavigator server. For installation in a virtual directory, the URL can be as follows: "http:// www.servername/WebNavigator/".
- 2. Type in the user name and password.

1.4 Installing the WebNavigator client

3. The first time you access the WebNavigator server, you will be prompted to install the WebNavigator client. Click the "Click here to install" link. Click the "Save" button in the "File Download" dialog to store the client setup on the target computer. It is recommended to save the Setup file because, in the event of a restart of the client computer being necessary, the Setup need not be downloaded again.

Note

If you have already installed the WebNavigator client and wish to install a more recent version via the Intranet/Internet, open the client setup straight away. You do not need to save the installation file on the target computer. Remove the old installation file first if you wish to save the new one. Alternatively, you can save the new version of the file in a different directory.

- 4. Leave the Internet Explorer open and open Windows Explorer. Navigate to the directory in which you saved the setup file. Start setup by double-clicking on the file.
- 5. Follow the instructions on the screen and enter the information and settings necessary. The client-side controls of the WebNavigator will be installed. Close the Setup dialog.

Result

Following successful installation, the WebNavigator client connects to the WinCC project currently in runtime.

1.5 Installing the WebNavigator diagnostics client

1.5 Installing the WebNavigator diagnostics client

Introduction

The software for the WebNavigator diagnostics client is installed on the client computer from the DVD.

Requirements

• To do this, you must have administrator rights.

Procedure

- Insert the WinCC DVD in the drive. The DVD starts automatically if Autorun is enabled in the operating system. If the Autorun function is not activated, start the program Setup.exe on the DVD.
- 2. In the "Installation Type" dialog, select "Custom Installation".
- 3. Select the "Diagnose Client" program in the Web Navigator" program group.
- 4. Before the installation, the security settings that are adapted for WinCC are displayed in the "System Settings" dialog. The firewall is configured automatically. Confirm the changes to the system settings.
- 5. Start the installation. You can track the status of the installation in the displayed dialog. Select "Cancel" to cancel the installation.
- 6. Restart the computer when prompted to do so by setup.

Result

The WebNavigator diagnostics client is now installed.

WinCC/WebNavigator Installation Notes

1.6 WebNavigator Demo Project

1.6 WebNavigator Demo Project

Introduction

The WinCC Demo Project can be downloaded as a self-extracting ZIP file from:

http://support.automation.siemens.com/WW/view/en/35102867 (<u>http://support.automation.siemens.com/WW/view/en/35102867</u>)

Installation

To install the project, copy the file in a local target directory and start the decompressing process by double-clicking the file.

The following logins are already configured in the demo project:

WinCC	Login	Password
WebNavigator German	winccd	winccpass
WebNavigator English	wincce	winccpass
WebNavigator French	winccf	winccpass
WebNavigator Italian	wincci	winccpass
WebNavigator Spanish	winccs	winccpass
Terminal PocketPC	PocketPC	winccpass
Terminal Mobic	Mobic	winccpass
Terminal MP370	MP370	winccpass

See also

http://support.automation.siemens.com/WW/view/en/35102867 (<u>http://support.automation.siemens.com/WW/view/en/35102867</u>)

1.7 Deinstallation

1.7 Deinstallation

Introduction

You can remove the WebNavigator server and WebNavigator client in the usual way, as in Windows.

Procedure

- 1. Open the Windows "Control panel" under the start menu.
- 2. Double-click on the "Software" icon.
- 3. Click the "Change or Remove Programs" icon.
- 4. Select the WebNavigator server or client and click "Remove". Follow the instructions on the screen.

Result

The WebNavigator Server or WebNavigator client has now been removed from the computer.

Note

If you uninstall the WebNavigator server, you should also uninstall the corresponding licenses with the "Automation License Manager" program. The licenses can be reactivated later.

WinCC/WebNavigator Release Notes

2.1 Information about WebNavigator

Introduction

These release notes contain important information.

The statements in these release notes take precedence over information provided in the manuals and in the online help.

Please read these release notes carefully as they contain useful information.

Communication via proxy server

Please note the following for communication using a proxy server:

- The WebNavigator client must be a member of the server domain.
- If the users registered on the WebNavigator client have no access to the proxy server, logon to the proxy server with NTLM authentication is as follows:
 - 1. The logon dialog for the proxy server appears.
 - 2. The logon dialog for the WinCC user appears.
 - 3. The logon dialog for the proxy server appears again.

Security restrictions with the WebNavigator client.

NOTICE

Security restrictions and response times in Internet Explorer

Please note the Internet-specific security restrictions when using the WebNavigator client. The WebNavigator client may take significantly longer (>20 seconds) than a regular WinCC client to recognize that the WebNavigator server is down or that the communication is faulty.

WebNavigator server: Configure a port other than the standard port "80"

When configuring the port in the WinCC Web Configurator, use "8080", for example, rather than the standard port "80".

WebNavigator client: Do not use WinCC project names with national special characters

You cannot use national special characters in the project name for WinCC projects that you want to show with the WebNavigator client.

2.1 Information about WebNavigator

WebNavigator client: Display of ActiveX controls in Internet Explorer

ActiveX controls are disabled in Internet Explorer by default. For this reason, the WinCC controls are not displayed correctly in Internet Explorer on a WebNavigator client.

To display the WinCC controls correctly, add the Web server as a trusted website and enable the ActiveX controls only for the "Trusted sites" zone.

To continue protecting Internet Explorer from foreign ActiveX controls, check that the restricted security settings still apply to the other zones after making the changes.

For more information, refer to the following documentation:

 WinCC/WebNavigator: "WinCC/WebNavigator Installation Notes > Installation of WebNavigator Client > Settings in Internet Explorer"

WebNavigator client: Updating pictures with faceplates

To enable updating of changes to pictures with faceplates, you must enable the setting "Every time I visit the webpage" in the settings for temporary Internet files in Internet Explorer.

WebNavigator client: Language-dependent texts as text references as of WinCC V7.2

Language-dependent texts via text references are now displayed on the WebNavigator client in the language that is currently set on the WebNavigator client. Previously, the texts were shown in the language of the associated WinCC server.

WebNavigator client: Manual logoff with ODK function as of WinCC V7.2

Users can now also be logged off manually from the WebNavigator client with the ODK function "PWRTLogout()". You will find a description of this function in the ODK documentation under "ODK UserAdministrator/Functions for logging in/out".

Secure connection over HTTPS: Memory leak when Windows XP SP3 is used

Access to a WebNavigator server via HTTPS may result in a memory leak when the Windows XP SP3 operating system is used. Further information can be found on the Microsoft support page:

http://support.microsoft.com/hotfix/KBHotfix.aspx?kbnum=959658 (<u>http://support.microsoft.com/hotfix/KBHotfix.aspx?kbnum=959658</u>)

This behavior can be rectified by the following Microsoft patch:

http://support.microsoft.com/kb/959658 (<u>http://support.microsoft.com/kb/959658</u>)

WinCC uninstallation: WebNavigator client must be installed later.

If you uninstall WinCC, you will need to post-install the WebNavigator client.

WinCC/WebNavigator Release Notes

2.1 Information about WebNavigator

Alarm after installation of a plug-in

The Program Compatibility Wizard may possibly output an alarm during installation of a plugin. The plug-in is installed correctly. You may therefore acknowledge this alarm with "The program was installed correctly."

Project Change

Following a change of projects, a sporadic inoperable period of the Internet Information Services (IIS) may occur. The computer must then be restarted.

WebNavigator server: Using the Trend Micro virus scanner in Windows 7 / Windows Server 2008 SP2

Operation of the Trend Micro "Office Scan" Corporate Edition V10.5 virus scanner in Windows 7 or Windows Server 2008 SP2 may have a negative impact on the performance of your WebNavigator Server.

Custom ActiveX Controls (Industrial X)

Compatibility with WinCC and WebNavigator server or WebNavigator client must be ensured if custom ActiveX Controls (Industrial X) are used:

- Direct installation of ActiveX Controls on the computer with WinCC and WebNavigator server or client. You must install the ActiveX control before installing WinCC and the WebNavigator server or client. If the ActiveX control does not function without errors after this step, there is no compatibility.
- Installation as a plug-in via the Web Navigation user interface on the WebNavigator client. If the ActiveX Control is packaged in a plug-in and installed via download, an upgrade of WinCC and the WebNavigator server or client will also require the generation of a new plugin using this ActiveX control. Ensure compatible binaries (DLL, OCX, etc.) are used when creating the plug-in.

WebNavigator client: "Protected Mode" with Windows 7

"Protected Mode" is not supported for the WebNavigator client under Windows 7.

WebNavigator client: Connection with the WebNavigator server with Windows Server 2008

In order to connect a WebNavigator client to a WebNavigator server as a "user", you must add the WebNavigator server as a trusted site.

Security settings in Internet Explorer: Installation via SSL connection

If you want to download the WebNavigator from an ASP portal via an SSL connection, note that the download is not possible under certain conditions. You can correct this with one of the following settings:

2.1 Information about WebNavigator

- Deactivate the "Do not save encrypted pages to disk" option in the "Advanced" tab for the Internet options of the Internet Explorer.
- Deactivate the "Internet Explorer Enhanced Security Configuration" option in the "Control Panel/Add/Remove Programs/Windows Components".

WebNavigator client: WinCC Alarm Control on a WebNavigator server in WinCC ServiceMode

Initial Situation

The WebNavigator client is connected with a WebNavigator server operated in WinCC ServiceMode.

Behavior

If you are using WinCC Alarm Control prior to WinCC V7 that is connected via a server prefix, you will not be able to open the selection dialog.

Solution

Use the WinCC AlarmControl that is offered as of WinCC V7.

WebNavigator client: Diagnostics file "WebNavReconnnect.log"

After installation of the WebNavigator client, the diagnostics file "WebNavReconnnect.log" will be saved in the "<User>\Application Data\Siemens\SIMATIC.WinCC\WebNavigator\Client" directory. The diagnostics file will be saved into the respective user profile so that this user no longer requires administrator rights. Under Windows 7 the directory will be available under "LocalLow".

WebNavigator client: WinCC Computer with "Basic Process Control"

The plug-in "WinCC Basic Process Control" must be installed on the WebNavigator client if the client is connected to a computer with WinCC Basic Process Control. Without the plug-in, the functionality of WinCC Basic Process Control will not be available on the WebNavigator client: for example, the relevant ActiveX Controls and the group display will not be available.

The plug-in is on the WebNavigator server in the "<wincc_installationpath>\WebNavigator \Server\Web\Install\Custom" directory. You can download the plug-in via the WebNavigator navigation user interface from the download area.

A description of supported and non-supported functions may be found in WinCC Information System under "Options for Process Control > System Overview Process Control Options > Configuration in PCS 7 Environment > Web Client".

If the WebNavigator client is to be installed on a dedicated web server with WinCC Basic Process Control, the plug-in "WinCC Basic Process Control" must be installed immediately after installation of the WebNavigator client. The download page for the plug-in is displayed. You will only be able to exit this page after installation of the plug-in for displaying the process pictures.

For more information on the supported functionalities of the WebNavigator client when connected to a PCS7 OS, please refer to the PCS7 documentation.

WinCC/WebNavigator Release Notes

2.1 Information about WebNavigator

WebNavigator client: Downloading plug-ins with Internet Explorer 8

Deactivate the SmartScreen filter in Internet Explorer 8 during the download. Otherwise, the plug-in will start twice on completion of the download.

WebNavigator client: "FLAG_COMMENT_DIALOG" of the "GCreateMyOperationMsg" function

The WebNavigator client does not support the parameter "FLAG_COMMENT_DIALOG" for the "GCreateMyOperationMsg" function.

See also

http://support.microsoft.com/hotfix/KBHotfix.aspx?kbnum=959658 (<u>http://support.microsoft.com/hotfix/KBHotfix.aspx?kbnum=959658</u>)

http://support.microsoft.com/kb/959658 (http://support.microsoft.com/kb/959658)

2.2 Service and Support

2.2 Service and Support

2.2.1 Warnings

Safety notes

This manual contains information that must be observed to ensure your personal safety and to prevent property damage. Notices referring to your personal safety are highlighted in the manual by a safety alert symbol; notices referring to property damage only have no safety alert symbol. Depending on the hazard level, warnings are displayed in a descending order as follows:

means that there can be severe physical injury or even death if the corresponding safety measures are not followed.

means that there can be severe physical injury or even death if the corresponding safety measures are not followed.

means that there can be slight physical injury if the corresponding safety measures are not followed.

NOTICE

means that there can be damage to property if the corresponding safety measures are not followed.

Note

means an undesirable result or state can occur if the corresponding instruction is not followed.

Note

is an important information about the product, the way to handle the product or the respective part of the documentation and we wish to especially bring this to your notice.

If multiple levels of hazards can occur, the warning is always displayed with the highest possible level. If a warning with a warning triangle is to be indicate physical injury, the same warning may also contain information about damage to property.

2.2 Service and Support

Qualified Personnel

The corresponding machine/ system may only be set up and operated with the help of this documentation. A device/system must only be commissioned and operated by qualified personnel. Qualified persons in the sense of safety instructions in this documentation stand for persons who are authorized to operate, earth and mark machines, system and electrical circuits according to safety standards.

Proper use

Please observe the following:

The machine may only be used for the application instances that have been described in the technical description and only in combination with third-party devices and components recommended and/or approved by Siemens. Smooth and safe operations demand proper transport, proper storage, installation and assembling as well as careful operations and maintenance.

Brands

All designations with the trademark symbol [®] are registered trademarks of Siemens AG. Other designations in this documentation may be trademarks whose use by third parties for their own purposes can violate the rights of the owner.

Security information

Siemens offers IT security mechanisms for its automation and drive product portfolio in order to support the safe operation of the plant/machine. Our products are also continuously developed further with regard to IT security. We therefore recommend that you keep yourself informed about updates and upgrades for our products and always use the latest version of each product. You can find information on this at:

http://support.automation.siemens.com (<u>http://support.automation.siemens.com</u>)

You can register for a product-specific newsletter here.

For the safe operation of a plant/machine, however, it is also necessary to integrate the automation components into an overall IT security concept for the entire plant/machine, which corresponds to the state-of-the-art IT technology. You can find information on this at:

http://www.siemens.com/industrialsecurity (<u>http://www.siemens.com/industrialsecurity</u>)

Products used from other manufacturers should also be taken into account here.

Disclaimer of liability

We have checked the contents of the description to ensure that it matches with the hardware and the software it describes. Nevertheless, we cannot assume responsibility for any deviations that may arise. The details outlined in this description are checked regularly and the required corrections are done in the subsequent editions. Suggestions for improvement are welcomed. 2.2 Service and Support

The statements in the online documentation are more binding than the statements in the manuals and PDF files.

Please follow the Release Notes and Installation Notes. The information in these Release Notes and Installation Notes has priority over that in the manuals and online help with regard to legal validity.

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Siemens AG Automation and Drives SIMATIC Human Machine Interfaces P.O. Box 4848 D-90327 Nuremberg, Germany

See also

http://support.automation.siemens.com (<u>http://support.automation.siemens.com</u>) http://www.siemens.com/industrialsecurity (<u>http://www.siemens.com/industrialsecurity</u>)

2.2.2 Customer Support

Customer Support and Technical Support

You can reach the SIMATIC hotlines at the times specified in the following table. The SIMATIC hotline employees speak German and English. The Authorization hotline offers French, Italian or Spanish customer support in addition to German and English.

Technical support

Nuremberg(GMT +1:00)Service HoursMonday - Friday, 8:00 to 17:00 (CET/CEST)Phone+49 (0)911 895 7222Fax+49 (0)911 895 7223E-mailhttp://www.siemens.com/automation/support-request (http://www.siemens.com/automation/support-request)

An overview of the Technical Support is available at the following URL:

http://support.automation.siemens.com/WW/view/en/16605032 (<u>http://support.automation.siemens.com/WW/view/en/16605032</u>)

Automation Value Card (AVC)

The Automation Value Card (AVC) provides extended Technical Support and is available 24 hours every day of the week. Information on the AVC can be found at the following URL:

http://support.automation.siemens.com/WW/view/en/21981898 (<u>http://support.automation.siemens.com/WW/view/en/21981898</u>)

SIMATIC Customer Online Support

Service and Support

An overview of the support offering for our products is available at the following URL:

http://www.siemens.com/automation/service&support (<u>http://www.siemens.com/automation/service&support</u>)

In Product Support, for example, you will find downloads of firmware updates, service packs and useful utilities.

Online Help is available so that you can successfully use the Support offering. Open the Online Help by selecting the corresponding button on the Internet site or at the following URL:

http://support.automation.siemens.com/WW/support/html_00/help/Online_Hilfe.htm (<u>http://support.automation.siemens.com/WW/support/html_76/help/Online_Hilfe.htm</u>)

WinCC FAQs

WinCC Online Support with information on FAQs (Frequently Asked Questions) may also be found at the following URL:

http://support.automation.siemens.com/WW/view/de/10805548/133000 (<u>http://support.automation.siemens.com/WW/view/en/10805583/133000</u>)

Searching in the Support database

The topic-related search in the Support database can be found under the following URL:

http://www.siemens.com/automation/csi/km (<u>http://www.siemens.de/automation/csi_en/km</u>)

Technical Forum

The Technical Forum supports exchange with other SIMATIC users. It is available at the following URL:

http://www.siemens.com/automation/csi/forum (<u>http://www.siemens.de/automation/csi_en/forum</u>)

Technical documentation for SIMATIC products

You can find a guide to the technical documentation provided for individual SIMATIC products and systems at the following URL:

http://www.siemens.com/simatic-tech-doku-portal (<u>http://www.siemens.com/simatic-tech-doku-portal</u>)

Contact person database

To contact your local agent, search our contact database at the following URL:

http://www.automation.siemens.com/partner/index.asp (<u>http://www.automation.siemens.com/partner/index.asp?lang=en</u>)

Product Information

SIMATIC WinCC

Go to the following URL for additional information about WinCC products:

http://www.siemens.com/wincc (<u>http://www.siemens.com/wincc</u>)

SIMATIC Products

Go to the following URL for additional information about SIMATIC products:

http://www.siemens.com/simatic (<u>http://www.siemens.com/simatic</u>)

See also

Internet: Support Request (<u>http://www.siemens.com/automation/support-request</u>)

Internet: Technical support (http://support.automation.siemens.com/WW/view/en/16605032)

Internet: Automation Validation Card (AVC) (<u>http://support.automation.siemens.com/WW/</u>view/en/21981898)

Internet: Service and Support (http://www.siemens.com/automation/service&support)

Internet: WinCC FAQs (<u>http://support.automation.siemens.com/WW/view/en/</u>10805583/133000)

Internet: Support Technical Forum (<u>http://www.siemens.de/automation/csi_en/forum</u>)

Internet: Support Search (http://www.siemens.de/automation/csi_en/km)

Internet: Support Online Help (<u>http://support.automation.siemens.com/WW/support/html_76/help/Online_Hilfe.htm</u>)

Internet: Technical documentation for SIMATIC products (<u>http://www.siemens.com/simatic-tech-doku-portal</u>)

Internet: Contact person database (<u>http://www.automation.siemens.com/partner/index.asp?</u> lang=en)

Internet: Information about WinCC (http://www.siemens.com/wincc)

Internet: SIMATIC Products (http://www.siemens.com/simatic)

2.2.3 Support Request

Dear customer

In order to provide you with fast and effective support, please complete the "Support Request" form online on the Internet. Describe the problem in as much detail as possible. We would appreciate if you would provide us with all project data, so that we can reproduce the error situation or shorten the turn-around time.

Before filling out the support request, check whether your configured quantity structure is within the range of tested quantity structures (see topic "Performance Data").

Support Request form

The Support Request form is available at the following URL:

http://www.siemens.com/automation/support-request (<u>http://www.siemens.com/automation/support-request</u>)

When filling out the report, you will be guided through several steps, which will ask about all required information.

A detailed description of the Support Request can be found at the following URL:

http://support.automation.siemens.com/WW/view/en/16605654 (<u>http://support.automation.siemens.com/WW/view/en/16605654</u>)

Procedure

- 1. Open the "Support Request" form using the link on the Internet. Step 1 "Select product" is displayed:
- 2. Enter the project name in the "Product/Order number" box. Upper/lower case is not relevant. Search for parts of the product name or enter the full product name in the correct order. You can e. g. search for the following terms:
 - "WinCC Runtime"
 - "WinCC DataMonitor"
 - "wincc webnavigator"
 - "Connectivity"

The found products are offered in the "Product selection" field.

- 3. Select the desired product and click on "Next" to switch to step 2 "Select use case".
- 4. Select a use case or describe your specific use case in the "Other use case" field.
- 5. Press "Next" to switch to step 3 "Our solutions".

Suggested solutions and FAQs for the selected key words are listed. Once you have found a suggested solution for your problem, you can close the form in the

browser.

If you did not find any applicable suggested solutions, press "Next" to switch to step 4 "Describe problem".

6.	Describe your problem as exactly as possible in the "Details" field.
	Pay particular attention to the following questions and comments. Please also check the
	WinCC installation and configuration with regard to the following references.
	If you have any idea what has caused the error, please let us know. No detail should be
	omitted, even if you consider it unimportant.
	- Was the configuration data created with older WinCC versions?

- How can the error be reproduced?
- Are other programs running simultaneously with WinCC?
- Have you deactivated the screen saver, virus checker and power management function?
- Search the computer for log files (WinCC\Diagnose*.log, drwatson.log, drwtsn32.log). The log files are needed for error analysis. Thus, be sure to send the log files as well.
- 7. Use the "Search" button to upload your affected project and the log files (e. g. as a Zip file) to the Support Request.

Press "Next" to switch to step 5 "Provide contact information".

 Enter your contact information. Read the privacy notice and choose whether your personal data should be permanently saved.
 Press "Next" to switch to step 6 "Summary & Send".

Press "Next" to switch to step 6 "Summary & Send".

 Press the "Print" button if you would like to print the support request. You close the support request by clicking the "Send" button. Your data will be transmitted to Customer Support and processed there.

Thank you for your cooperation. We hope that we can be of assistance in solving your problems. Your WinCC Team

See also

Internet: Error Report (http://www.siemens.com/automation/support-request)

Internet: Overview of Support Request (<u>http://support.automation.siemens.com/WW/view/en/</u>16605654)

WinCC/WebNavigator Getting Started

3.1 First Web Project

Introduction

WinCC/WebNavigator provides a solution for operator control and monitoring of the automation system via the Intranet and Internet. WinCC/WebNavigator offers you an easy and efficient way of implementing the operator control and monitoring functions of the WinCC project.

The optional "WinCC/WebNavigator" package consists of server components that you install on the WebNavigator server. You need the WebNavigator client components on the computer that you are using to control and monitor the process pictures that are displayed as in the WinCC basic system. For this purpose, use Internet Explorer or the "WinCCViewerRT" Web Viewer on the client.

WinCC/WebNavigator also contains the "WebNavigator Diagnostics Client" component. The functionality of this Diagnostics Client is no different from that of a WebNavigator client. The Diagnostics Client provides cost-effective and reliable access to one or several WebNavigator Servers for diagnostics purposes.

Overview

This Getting Started is based on the WinCC demo project. For this example project, WinCC, WebNavigator Server and WebNavigator Client are installed on the same computer.

Edit the WinCC project on the WebNavigator Server. Use the WebNavigator Client if you access the project with Internet Explorer or "WinCCViewerRT".

Requirement

- The WinCC basic system is installed.
- You have installed the WinCC demo project. Information about its installation is available in the chapter "Information about installation of the WinCC demo project (Page 27)".
- WebNavigator Server is installed. Information about its installation is available in the "Information about installation of the WebNavigator Server (Page 14)" chapter.

3.1 First Web Project

Procedure

Perform the following steps for the first Web project:

- Configure the WinCC project
 - Publish the WinCC process pictures for web access
 - Administer the users for WebNavigator Client
- Configuring the WebNavigator Server
 - Configure the WebNavigator web page
 - Configure the firewall
 - Check the activated web page
- Operating the WinCC project
 - Configure the Internet Explorer settings
 - Install the WebNavigator Client and operate the WinCC project using Internet Explorer
 - Set up WinCCViewerRT and operate the WinCC project using WinCCViewerRT
- Creating a new process picture and displaying it on the WebNavigator client

See also

Creating a new process picture (Page 69) Installing the WebNavigator Client (Page 62) Administering the users for WebNavigator Client (Page 49) Starting the demo project (Page 51)

3.2 Configuring the WinCC project

3.2.1 Publishing process pictures

Introduction

If you wish to display WinCC process pictures on the WebNavigator Client, you must publish them first. For publishing the pictures, use the Web View Publisher, which automatically makes the necessary adjustments to the project data.

Procedure

 Select "WebNavigator" in the navigation window of WinCC Explorer. Select the "Web View Publisher" command from the shortcut menu. The WinCC Web Publishing Wizard is now launched.

🎭 WinCC Web Publishing Wizard - Introducti	ion _O	×
	SIEMEN	5
SIEMENS	 The WinCC Web Publishing Wizard will help you publish your WinCC Pictures to a Web Server by preparing and copying the selected files from your WinCC Project to the Picture Publishing Folder of your WinCC Web Server. 	
	Skip this screen in the future.	
	Cancel < Back Next > Finish]

2. Click "Next".

WinCC/WebNavigator Getting Started

3.2 Configuring the WinCC project

👫 WinCC Web Publishing Wizard - Select dire	ctories
	SIEMENS
15.5	Select the folder containing your WinCC pictures and the folder of the WinCC Web Server to which you will publish your pictures.
	Path to your WinCC project:
	Server Prefix
	D:\demoprojekt\WebDemoProjectV7\
1000 COL	
	Publishing folder of the WinCC Web:
	D:\demoprojekt\WebDemoProjectV7\WebNavigator\
SIEMENS	Diagnostics:
	Show hidden objects
	Cancel < Back Next > Finish

 Select the WinCC project folder under "Path to your WinCC project". Select the target folder for the published pictures under "Publishing folder of the WinCC

Web". Accept the proposed folder within the WinCC project folder. Click "Next".

4. Move the pictures that you wish to publish to the "Selected files" list.

% WinCC Web Publishing Wizard - Sele	ect pictures
	SIEMENS
Add 🗙 Remove 🔡 🗸	
Files	Selected files
 NewPdl2.PDL OLD_A_002_Slides_Allg OLD_B_010_V7_Graphic OLD_C_012_V6_Alarms OLD_C_024_V6_Reports OLD_C_025_V6_Reports OLD_C_032_V6_Open OLD_C_048_Native_Use OLD_C_051_PAX_Chan OLD_002_V6_Scalabi OLD_017_V6_Data OLD_023_Option_We OLD_035_Option_We OLD_036_V6_DataM 	 A_001_Stat_WinCC.pdl Applications_AST_Mining Addons_de.PDL Applications_AST_Mining Applications_AST_Mining Applications_AST_Mining Applications_AST_Mining Applications_AST_Paper Applications_AST_Plastic Applications_AST_Ceme Applications_AST_Plastic Applications_AST_Ceme Applications_AST_Plastic Applications_AST_Ceme Applications_AST_Poupt Applications_AST_Pood1 Applications_AST_Poupt Applications_AST_Food3 Applications_AST_Power Applications_AST_Food3 Applications_AST_Power Applications_AST_Metal Applications_AST_Water Applications_AST_Metal Applications_AST_Water Applications_AST_Mining
	Cancel < Back Next > Finish

Click "Next".

WinCC Web Publishing Wizard - Select functions			
Add Remove III -		Selected files	≡∳Start Audit \
- animate_press.rot	>>>	 ASTValamsVASTMessag => Color_Set_Runtime.r.t ASTValamsVASTMessag => Color_Set_Runtime.r.t ASTVDemoVASTLoopInA => delay.fct ASTVDemoVASTPopup.fct => global_c_var.fct ASTVDemoVASTPote.fct => global_c_var.fct ASTVDemoVASTValueM => Its_Pfad_auslesen.fct ASTVRecipesVASTRecip => keineBerechtigung.fct ASTVRecipesVASTRecip => LoopInAlamMesse.fct ASTVStringsVASTRDSN.fct => myOpenPicture.fct ASTVStringsVASTRDSN => OpenBrowserPage.fct ASTVSystemVASTRIPAS => Picture_Up.fct ASTVSystemVASTRANPR => PiD_Control_Loop.fct ASTVSystemVASTSaveSt => vrusequence.fct CASTVagsVASTTOgleBit => Start_Alarm_Logging.fct Color_Save_after_Runtim => Start_Audit_Editor.fct 	Star_Auul_ Start_Excel. Start_Global Start_Global Start_Global Start_Graphi Start_Industr Start_Outloo Start_Report Start_Report Start_Tag_L Start_Text_L Start_Text_L Start_Text_L Start_Text_L Start_Text_L Start_Virtual Start_Virtual Start_VinBD Start_WinBD Start_WinDC
		Cancel < Back Next >	Finish

5. Move the necessary C project functions to the "Selected files" list.

Click "Next".

🌯 WinCC Web Publishing Wizard - Referenced graphics				
	SIE	MENS		
Add X Remove 📰 -				
Files	Selected files			
>	Image: Second	AST.AlarmNa AST.AlarmNa AST.Alarms.o AST.Alarms.o AST.Alarms.o AST.Auto.bn AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Carbona AST.Carbona AST.Cement AST.Cement AST.Cement		
	Cancel < Back Next >	Finish		

6. Move the graphics used in the process pictures to the "Selected files" list.

Click "Next".

7. To start publishing the pictures, click "Finish".

WinCC/WebNavigator Getting Started

3.2 Configuring the WinCC project

📬 WinCC Web Publishing Wizard - Finish	SIEMENS
The WinCC Web Publishing Wizard is finished collecting information.	
To publish your pictures, press Finish.	
List of result	
Status Name WinCC Web Publishing Wizard	
Image: System System ZZZ_CreatePDLListe.pd Image: System System Image: System System Image: System System Image: System Image: System	Screen
ZZZ_CreatePDLListe.pd (1) The picture(s) have been published successfully.	Screen
	Screen
ZZZ_Vorlage_PrevNext.	Screen
NewTrend.pdl OK	Screen
Image: Second	VBScript VBScript
C:\Program Files\Siemens\WinCC\APLIB\ScriptLibStd	VBScript
	v bochpt
Cancel < Back	Next > Close

Result

The results list displays the status of all published objects. You can click an object to view additional object information.

You have successfully published the pictures and functions.

3.2.2 Administering the users for WebNavigator Client

Introduction

In order to enable a user to access a WinCC project via a WebNavigator Client, you must assign the appropriate authorizations to the user in the WinCC User Administrator. You can select a different start picture and runtime language for each user.

Procedure

1. Right-click "User Administrator" in the navigation window of the WinCC Explorer. Select the "Open" command from the shortcut menu.

💮 User Administrator	- [DemoProject¥7.mcp]	_ 🗆 X
File User Table View	Chipcard AddOns Help	
i ii ii ×-••		
Winccd Administrator-Gr Administrator-Gr Administrator-Gr WebNavigator-C winccd wincce winccf wincci	Login winccd SIMATIC Logon Login only via chip card ✓ WebNavigator Automatic logout Web options after 0 Minutes absolute time Idle time Inglese (Stati Uniti)	
WinCCs WinCC-Gruppe	No. Function 1 User Administration 2 Tag entering 3 Process controlling 4 Picture Editing 5 Change picture 6 Window selection 7 Hardcopy 8 Confirm alarms 9 Lock alarms 10 Free alarms 11 Message Editing 12 Stat archive 13 Stop archive 14 Edit archive values 15 Archive Editing 16 Action Editing	
• •	17 Projectmanager	-

- 2. You can use an existing user for the Web project. Select the user named "winccd" who has been assigned the login "winccd" and password "winccpass", for example, or create a new user based on this template.
- 3. Select the "Add user" command from the "Users" menu if you want to create a new user.
- 4. Specify the login and password for the new user.
- 5. Select the new user in the navigation window of the User Administrator.
- 6. Select the "WebNavigator" check box in the table window. The "Web Options" area is displayed.
- 7. Use the "..." button to select the start picture for this user, e.g. "winccPic.pd_". You can only select published pictures as start pictures.
- 8. Use the "..." button to select the Runtime language for the user. You can select one of the languages installed in WinCC.
- Select the required user rights by double-clicking in the "Authorization" column of the table window. If system authorization no. 1002 "Web access - monitoring only" has been enabled, the user is only allowed to monitor the WinCC project when acting as WebNavigator Client.
- 10.Close the User Administrator.

3.3 Configuring the WebNavigator Server

3.3.1 Starting the demo project

Introduction

You have copied the WinCC demo project to the computer. In this step, you set up the Web project for the computer that acts as both WebNavigator Server and WebNavigator Client.

Procedure

- Start WinCC by selecting "SIMATIC > WinCC > WinCC Explorer" in the Windows Start menu.
- 2. Open "DemoProjectV7".
- 3. Click "Start server locally" in the next dialog. The WinCC project can only be activated if your computer has been entered as an available server in the computer list.
- 4. Right-click "Computer" in the navigation window of WinCC Explorer and select "Properties...".
- 5. Click the "Properties" button in the dialog.
- 6. Enter the computer name in the "Computer name" field.
- 7. Click "OK". Restart the project to activate your changes.
- 8. Close the project by selecting "File > Exit".
- 9. Reopen the demo project to configure the WebNavigator Server.

See also

Configuring the WebNavigator web page (Page 51)

3.3.2 Configuring the WebNavigator web page

Introduction

The WinCC Web Configurator is used to set up and manage the Microsoft Internet Information Service (IIS). You will be creating a default web page in this step.

Requirement

- The WebNavigator Server is installed.
- The Windows "Internet Information Service" component is installed.

Procedure

 Select "WebNavigator" in the navigation window of WinCC Explorer. Click the "Web Configurator" command in the shortcut menu. Click "Next" on the start page.

🖶 WinCC Web Configurator		×
	Here, you can create a new standard Web site or add a virtual folder to an existing activated Web site: Create a new standard Web site (stand-alone) Add to an existing Web site (virtual folder)	
ļ	Cancel < Back Next> Finish	

2. Enable the "Create a new standard web page (standalone)" option and then click "Next".

HinCC Web Configurator		×
	Here, you can change the name, IP address and TCP connection (default: 80) of your Web site: Name of the Web site: WebNavigator Port: Internet Address (URL): 80 (All not assigned) Default Web-Page: WebClient.asp Reconnect Interval 10 s Start the web-site after being configured.	
	Cancel < Back Next > Finish	

- 3. Enter the name "WebNavigator" for the web page.
- 4. Select the default port "80" in the "Port" field.
- 5. Select an "IP address". Use only the addresses that are available in the selection list. Select "All not assigned" to enable Intranet and Internet access to the computer.
- 6. Select "WebClient.asp" as the default web page.
- 7. Click "Finish" if you have not activated a Firewall. Click "Next" if you have installed a Firewall.

Result

You have created the Web folder and activated the web page.

3.3.3 Configuring the Firewall

3.3.3.1 Configuring the Firewall in Windows XP/Windows 2003

Introduction

This section describes how to activate the "HTTP" or "HTTPS" services and the procedure for other port settings in Windows XP or Windows 2003.

Requirement

- A default web page was created using the Web Configurator.
- The Firewall is activated.
- The user who is logged has Windows administrator rights.
- You have to set up the HTTPS service in IIS if you are using it for WebNavigator. For more information, refer to "Setting up an HTTPS service in IIS (<u>http://support.microsoft.com/kb/324069</u>)".

Procedure for the default port

🔁 WinCC Web Configurator		×
	Configuring the Windows-Firewall Please select in the register 'Advanced' of 'Windows-Firewall' the network connection for which users from the Internet should be permitted access. Activate via 'Settings' the services 'Webserver (HTTP)' or 'Secure WebServer (HTTPS)'. Windows-Firewall	
	Cancel < Back Next > Finish	

1. Click the "Windows Firewall" button in the Web Configurator.

The "Windows Firewall" dialog opens.

2. Click the "Advanced" tab.

Select the required network connection and then click the "Settings" button. The "Advanced Settings" dialog opens.

🎯 Windows Firewall	×
General Exceptions Advanced Network Connection Settings Windows Firewall is enabled for the <u>c</u> onnections selected below. To add	- 1
✓ 1394-Verbindung Settings ✓ LAN-Verbindung Settings Advanced Settings ? ×	
Services ICMP Select the services running on your network that Internet users can access. Services FTP Server Internet Mail Access Protocol Version 3 (IMAP3) Internet Mail Access Protocol Version 4 (IMAP4) Internet Mail Server (SMTP) Post-Office Protocol Version 3 (POP3) Remote Desktop Secure Web Server (HTTPS) Telnet Server Web Server (HTTP)	
Add Ediţ Delete	
OK Cancel	

- 3. Select the "Secure Web server (HTTPS)" or "Web server (HTTP)" check box. Click the "Edit" button to display the current service settings for the web server.
- 4. Close all Windows dialogs with "OK".
- 5. Click "Finish" in the Web Configurator. The server configuration is completed.

Procedure for other port settings

Customize the Windows Firewall settings as follows if you are not using the default port.

- 1. Click the "Windows Firewall" button in the Web Configurator. The "Windows Firewall" dialog opens.
- Click the "Advanced" tab. Select the required network connection and then click the "Settings" button. The "Advanced Settings" dialog opens.
- 3. Click "Add" in the " Advanced Settings" dialog. The "Service Settings" dialog opens.

😸 Windows Firewall	x
General Exceptions Advanced	
Network Connection Settings Windows Firewall is enabled for the <u>connection</u> exceptions for an individual connection, select	
☑ 1394-Verbindung	Se <u>t</u> tings
LAN-Verbindung	
Advanced Settings	<u>? ×</u>
Services ICMP	
Select the services running on your network that	
access. Service Settings Services	<u>?×</u>
Description of service:	
Internet WebServer2	
□ Internet □ Internet Name or IP address (for example computer hosting this service on	
Post-Offi wn36	
Remote Secure \	
Telnet S External Port number for this serv	vice:
Web Se 8080	⊙ <u>I</u> CP O <u>U</u> DP
✓ WebSer Internal Port number for this serv	ice:
8080	Ī
· [OK Cancel
Add Edit	Delete
OK	Cancel

- 4. Specify the web server settings:
 - Web server name in the "Service description" field
 - Name or IP address
 - External and internal port number for this service
 - "TCP" service

Confirm with "OK".

- 5. Activate the web server you created in the "Advanced Settings" dialog.
- 6. Close all Windows dialogs with "OK".
- 7. Click "Finish" in the Web Configurator. The server configuration is completed.

3.3.3.2 Configuring the Firewall in Windows 7/Windows 2008

Introduction

The chapter describes how to activate "HTTP" and "HTTPS" services for port "80" in Windows 7 or Windows 2008.

Consult your network administrator if you want to set up the Windows Firewall with advanced security or for a different port.

Requirement

- You have created a default web page with Web Configurator.
- The Firewall is activated.
- The user who is logged has Windows administrator rights.
- You have to set up the HTTPS service in IIS if you are using it for WebNavigator. For more information, refer to "Setting up an HTTPS service in IIS (<u>http://support.microsoft.com/kb/324069</u>)".

Procedure for the default port

- 1. Click the "Windows Firewall" button in the "WinCC Web Configurator". The "Windows Firewall" dialog opens.
- Windows 7: Click "Allow a program or feature through Windows Firewall". Windows 2008: Click "Allow a program to communicate through Windows Firewall".
- 3. Activate "Secure WWW services (HTTPS)" or "WWW services (HTTP)".
- 4. Close all Windows dialogs with "OK".
- 5. Click "Finish" in the Web Configurator. The server configuration is completed.

3.3.4 Check the activated web page

Procedure in Windows XP/2003

- 1. Select "Programs > Administration > Internet Information Services" from the Windows Start menu. The "Internet Information Services" editor opens.
- 2. Click on the plus symbol next to the computer name in the "Structure" field.
- 3. Click on the plus symbol next to "Websites". The data window displays the corresponding web pages.
- Check the view of the web pages. If the status "Stopped" is displayed next to the required web page, for example,

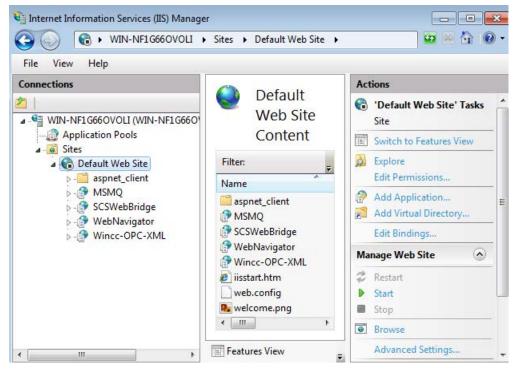
"WebNavigator", start the web page. Select the "Start" command from the shortcut menu to launch the web page.

💐 Internet Information Services				_ 🗆 ×
_ <u>A</u> ction View ← → 🗈 🖬 😭 🔂 🛃 😫 💂 ▶ =				
Tree	Description	State	Host Header Name	IP Address
Internet Information Services	🗟 Default FTP Site	Running		* All Unas:
	Default Web Site (Stopped)	Stopped		* All Unas:
	🜏 WebNavigator	Running		* All Unas:
	SMTP Virtual Server	Running		* All Unas:
			-	

5. Close the editor. The web page is activated.

Procedure in Windows 7/2008

1. Select "All programs > Administration > Internet Information Services (IIS) Manager" from the Windows Start menu.



- 2. Click the computer name in the "Connections" field.
- 3. Click "Default Web Site".
- 4. Check the view of the web pages.
 If the status "Stopped" is displayed next to the required web page, for example, "WebNavigator", start the web page.
 Select the "Start" command from the shortcut menu to launch the web page.
- 5. Close the "Internet Information Services (IIS) Manager". The web page is activated.

3.4.1 Operating the WinCC project with Internet Explorer

3.4.1.1 Internet Explorer Settings

Introduction

You have to adapt the Internet Explorer security settings in order to utilize full functionality of the WebNavigator Client.

Procedure

- 1. Click "Tools > Internet Options" in Internet Explorer.
- Select the "Security" tab. Select the corresponding zone, for example, "Local Intranet" or "Internet".
- 3. Click "Custom Level...".
- 4. Enable the "Script ActiveX controls marked safe for scripting" and "Download signed ActiveX controls" options.
- 5. Enable "Active Scripting" under "Scripting".
- 6. Click "OK". Carry out the modifications in the subsequent dialog.
- Click the "Trusted Sites" icon. Click the "Sites..." button to open the "Trusted sites" dialog.
- Enter the address of the WebNavigator Server in the "Add this website to the zone" field. Possible formats and wildcards include "*://157.54.100 - 200", "ftp://157.54.23.41", or "http:// *.microsoft.com".
 Deactivate the "Require server verification (https:) for all sites in this zone" option. Click "Add". Click "OK".
- Click the "Trusted Sites" icon. Click the "Standard level" button and then the "Custom Level" button. Enable "Initialize and script ActiveX controls not marked as safe". Click "OK".
- 10.Click on the "General" tab.Click in the "Settings" area on the "Temporary Internet Files" button.Enable the "Automatic" option under "Check for newer versions of stored pages:".Click "OK".
- 11. Close the "Internet Options" dialog by clicking "OK".

3.4.1.2 Installing the WebNavigator Client

Introduction

This chapter describes how to install the WebNavigator Client on the WebNavigator Server via Intranet/Internet.

Requirement

- The WebNavigator Server is installed.
- The "WinCC WebNavigator" license is installed.
- The WinCC project is in Runtime.
- The WinCC pictures are configured and published for web access.
- A user for the WebNavigator Client has been created in WinCC.
- Internet Explorer

Procedure

- 1. Go to the address bar of Internet Explorer and enter the URL "http://www.<servername>" of the WebNavigator Server.
- Type in the user name and password, for example, "winccd". The first time you access the WebNavigator Server, you are prompted to install the WebNavigator Client. Click on the link "Click here to install".
- 3. Click "Save" in the "File Download" dialog to save the client setup to the target computer. Saving the client setup to the client computer saves you from having to download the data once again if you have to restart the client computer.
- 4. Select the destination folder for the setup file of the WebNavigator Client in the next dialog.
- 5. Without closing Internet Explorer, open Windows Explorer. Navigate to the folder in which you saved the Setup file. Start the setup by double-clicking on setup.exe.
- 6. Follow the instructions on the screen and make the necessary entries and settings.
- 7. Select the "Complete" option in the "Setup type" dialog to install all components of the Client. Click "Next".
- 8. Click "Install" in the next dialog.
- 9. Click "Finish" in the "Install Wizard completed" dialog.

Result

On successful installation, the WebNavigator Client connects to the WinCC project currently in Runtime. The standard web page is displayed with the picture that you specified for the user in the User Administrator.

During installation of the WebNavigator client, the "WinCCViewerRT" Web viewer is also installed. "WinCCViewerRT" is a viewing program that you can use in place of Internet Explorer to visualize the WinCC project.

3.4.2 Operating the WinCC project using WinCCViewerRT

3.4.2.1 Configuring WinCCViewerRT

Introduction

WinCCViewerRT is a program for visualizing WinCC projects. You can configure WinCCViewerRT for operation with the WebNavigator Server and Graphics Runtime.

Requirement

- On the server
 - The WebNavigator Server is installed.
 - A WinCC/WebNavigator license is installed.
 - The WinCC project is in Runtime.
 - The WinCC pictures are configured and published for web access.
- On the client
 - The WebNavigator Client is installed.

Procedure

1. Double-click the link "WinCCViewerRT.exe" in the "Webnavigator\Client\bin" installation folder.

The configuration dialog opens if you reconfigure WinCCViewerRT. WinCCViewerRT opens if WinCCViewerRT has already been set up. Use the <Ctrl+Alt+P> key combination to open the configuration dialog of WinCCViewerRT.

WinCCVie	werRT		x
General	Parameters	Graphics Runtime Runtime	
Confi	guration file		
C:\	Documents a	nd Settings\Ka\WinCCViewerRT.xml	
Serve	er		
Addr	ess	http://servername	
		Use project settings. (This requires a server version >= 7.0.2)	
Crede	entials		
User	name	winccd	
Pass	word	****	
		OK Cancel	

- 2. Enter the login data in the "General" tab:
 - Server address: http://<server name> or http://<IP address>
 - User name and password, if you want to specify a default user for the login dialog.
 - The user settings you configured in the User Administrator will be activated if you enable the "Apply project settings" option.
- 3. Specify the Runtime language in the "Parameters" tab.

If necessary, disable any key combinations with which the user switches to other programs. If required, you can modify the preset <Ctrl+Alt+P> key combination that is used to open the WinCCViewerRT configuration dialog.

Define a key combination with which a user can log off and a new user can log on. The key combination can only be used if no default user has been set in the "General" tab.

- 4. Specify the WinCC Runtime properties in the "Graphics Runtime" tab:

 - Start pictureConfiguration file for user-defined menus and toolbars
 - Window attributes
 - Impermissible user actions

WinCCViewerRT	×
General Parameters Graphics Runtime Runtime	
Start Picture	
Start configuration menu and toolbars	
Window Attributes	
Title	<u> </u>
✓Border Resize Maximize Move	
Minimize	- -
OK	Cancel

- 5. Specify additional user actions in the "Runtime" tab:
 - Activating the screen keyboard

- <Ctrl+Alt+Del> key combination to allow switching to the Task Manager or operating system via the screen keyboard.

- Auto-logoff settings

WinCCViewerRT	×
General Parameters Graphics Runt	ime Runtime
Allow Ctrl+Alt+Del Automatic logout after O Minutes	○ absolute time ● idle time
	OK Cancel

6. Close the dialog with the "OK" button.

Result

WinCCViewerRT is configured. The connection to the WebNavigator Server is set up after you close the dialog. The settings are saved to the "WinCCViewerRT.xml" configuration file. The configuration file settings are used at the next start of WinCCViewerRT. WinCCViewerRT applies the user interface language from WinCC.

The configuration file is saved in the folder "Documents and Settings\<User>\Application Data \Siemens\SIMATIC.WinCC\WebNavigator\Client". You can rename the file, for example, to "User1.xml". You can also start WinCCViewerRT by means of the command line with the user-specific configuration file, e.g. "WinCCViewerRT.exe User1.xml". This procedure allows for different configurations, depending on the logged-on user.

The WinCCViewerRT configuration dialog opens at the start if you rename or delete "WinCCViewerRT.xml". Reconfigure WinCCViewerRT or select a different configuration file.

Note

WinCCViewerRT can only be closed by means of script function if you disable a key shortcut or hide the "Close" button. Function in the C-Script: DeactivateRTProject; function in the VBScript: HMIRuntime.Stop.

3.4.2.2 Operating the WinCC project

Requirement

- On the server
 - The WebNavigator Server is installed.
 - The "WinCC WebNavigator" license is installed.
 - The WinCC project is in Runtime.
 - The WinCC pictures are configured and published for web access.
 - The user is created in WinCC.
- On the client
 - WinCCViewerRT is configured.

Procedure

- 1. Start "WinCCViewerRT" in the Windows Start menu with "Programs > Siemens Automation > Options and Tools > HMI Tools".
- 2. Log on to the WebNavigator Server:
 - A login dialog is not displayed if the user name and password is preset in the "WinCCViewerRT" configuration dialog. You are logged on automatically with the stored login data.
 - The login dialog is displayed if a user name and password is not set in the "WinCCViewerRT" configuration dialog. Enter the user name and password of the WinCC user. Click "OK".
- 3. To change the user, use the specified key combination for "WinCCViewerRT" login/logoff. The previous user is logged off. Enter the user name and password of the new WinCC user in the login dialog. Click "OK".
 The key combination can only be used if no default user has been set.

The key combination can only be used if no default user has been set.

Result

WinCCViewerRT automatically connects to the activated WinCC project. The start picture that is configured for the user is displayed.

The user may operate or monitor the project, depending on authorizations. Users assigned system authorization No. 1002 "Web access - monitoring only" in the User Administration are only allowed to monitor the WinCC project.

The "View Only Cursor" indicates that process-related operations are not possible.



Certain operations, such as opening the properties dialog of a WinCC OnlineTrendControl, are still possible.

You can also use your own cursor icon as a "View Only Cursor", if required. For more information, refer to "Configuring Runtime settings (Page 95)".

The <F5> key triggers a reselection of WinCCViewerRT.

3.5 Creating a new process picture and displaying it on the client

3.5.1 Creating a new process picture

Introduction

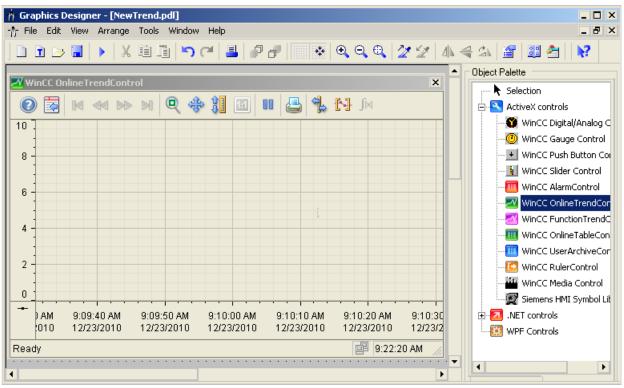
Configure a new process picture for the web project on the server. Create a trend window that displays the measured values from the archive of the WinCC demo project.

Requirement

• The WinCC demo project is open.

Procedure

- 1. Click "Graphics Designer" in the navigation window of WinCC Explorer. Right-click in the data window and select the " New picture" menu command.
- In the object palette of Graphics Designer, double-click "WinCC OnlineTrendControl" on the "Controls" tab. The control is inserted into the picture and the configuration dialog opens.



3. Click the "Trends" tab. Click 😝 at the tag name in the "Data connection" field. Select the "Measured values" archive and "T01" tag in the "Archive/tag selection" dialog.

Proprietà - WinCC OnlineTrendControl		? ×
Toolbar Status Bar	Online configuration	Export
Trends General Font T	rend window Time axes	Value axes
Trends:	Object name:	
Trend 1	Trend 1	
	Trend window:	
	Trend window 1	-
	Time axis:	
	Time axis 1	-
	Value axis:	
	Value axis 1	-
	Label:	
New Remove Up Down	1	
Data connection	1	
Data source:	Tag name:	
1 - Archive tags	DemoProjectV7_WINCC1::Me	e 🔁 😤
Selection of Archives/Tags		? ×
1 1 1		
Hierarchy: DemoProjectV7_WINCC1::Messwe	erte \	
🖻 🚇 DemoProjectV7_WII 🔺 🛛 Tag name	C. T., A. L., A. F., A	4. 🔺
DataMonitor *		7
⊕		
G_Archive G_Archive G_TO1 Messwerte G_TO2		
🕀 🛄 PCInfo 🛛 🗖 T03		
DASim		
⊕ Prozesswertarct ☐ T05 ⊕ Simulation ▼ ☐ T06		
		····
	OK Cancel	Help

- 4. Click "OK". The measured values from "T01" are linked to the trend.
- 5. If required, configure additional properties of the trend or control.
- 6. Save the control under the name "NewTrend.pdl" and close Graphics Designer.

Result

You have successfully created a trend window in a picture on the WebNavigator Server. In order to display the trend window on the WebNavigator Client, you must publish the picture and assign it to a user as start picture.

See also

Configuring a new process picture for the web (Page 71)

3.5.2 Configuring a new process picture for the web

Introduction

In order to display the trend window on the WebNavigator Client, you must publish the picture and assign it to a user as start picture.

Requirement

- The WinCC demo project is open.
- You have successfully created a trend window in a picture on the WebNavigator Server.

Procedure

- 1. Right-click "WebNavigator" in the navigation window of the WinCC Explorer. Select the "Web View Publisher" command from the shortcut menu.
- 2. Select the new "NewTrend.pdl" picture in the "Files" field of the "Select pictures" dialog of the Publishing Wizard. Move the file to the "Selected files" list.
- 3. Follow the further instructions of the Publishing Wizard. The picture is published after you have completed the Wizard.
- 4. Right-click "User Administrator" in the navigation window of WinCC Explorer and select the "Open" command from the shortcut menu.
- 5. Select the user with whom you wish to display the new trend window from the navigation window of the User Administrator.
- Select the "WebNavigator" check box in the table window. The "Web Options" area is displayed.
- 7. Click "..." to select the "NewTrend.pd_" start picture.
- 8. Close the User Administrator.

Result

You have successfully configured the picture that contains the trend window for visualization on the WebNavigator Client.

See also

Displaying the process picture on the WebNavigator Client (Page 72) Administering the users for WebNavigator Client (Page 49) Publishing process pictures (Page 43)

3.5.3 Displaying the process picture on the WebNavigator Client

Introduction

You want to display the new process picture on the WebNavigator Client Use the "WinCCViewerRT" Web Viewer for this example.

Requirements

- The WebNavigator Server and the "WinCC WebNavigator" license are installed.
- The user is created in WinCC.
- A process picture is created in WinCC.
- The process picture is published and assigned to the user as start picture.
- The WinCC project is in Runtime.
- WinCCViewerRT is configured.

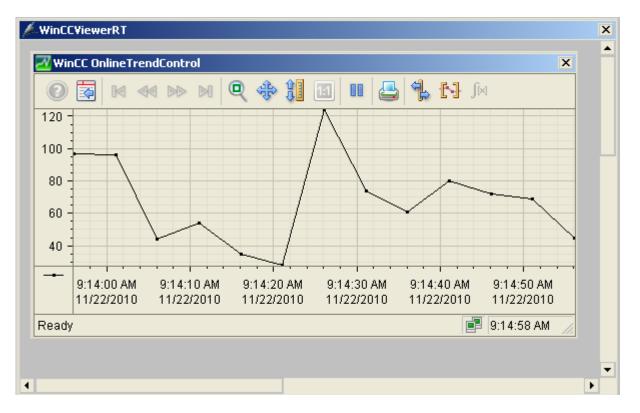
Procedure

- 1. Select the "Start > Programs > Siemens Automation > Option and Tools > HMI Tools > WinCCViewerRT" command in the Windows Start menu.
- 2. Log on to the WebNavigator Server:
 - A login dialog is not displayed if the user name and password are set in the "WinCCViewerRT" configuration dialog. You are logged on automatically with the stored login data.
 - The login dialog is displayed if a user name and password is not set in the "WinCCViewerRT" configuration dialog.
 Enter the user name and password in the "General" tab. Click "OK".
- You can use the preset <Ctrl+Alt+P> key combination to change the user. The "WinCCViewerRT" configuration dialog opens. Enter the user name and password in the "General" tab. Click "OK".

3.5 Creating a new process picture and displaying it on the client

Result

The trend window is displayed in the "WinCCViewerRT" Web Viewer. The trend values are loaded from the archive.



See also

Configuring WinCCViewerRT (Page 63) Operating the WinCC project (Page 67)

4.1 Function overview

Introduction

WinCC/WebNavigator provides a solution for operator control and monitoring of the automation system via the Intranet and Internet. WinCC/WebNavigator offers you an easy and efficient way of implementing the operator control and monitoring functions of the WinCC project. Current Internet security methods are supported. Use SSL encryption to increase Internet security.

The optional "WinCC/WebNavigator" package consists of the following components:

- WebNavigator Server
- WebNavigator Client
- WebNavigator Diagnostics Client

WebNavigator Server

All necessary WinCC pictures and functions that are displayed on the WebNavigator Client are stored on the WebNavigator Server. The Web View Publisher automatically makes the required adaptations to the project data that is necessary for the web. This ensures the best possible performance.

The WebNavigator Server needs Microsoft Internet Information Service (IIS) for communication with the WebNavigator Clients. The IIS is set up and managed using the WinCC Web Configurator.

The "Load Balancing" function allows you to automatically distribute the WebNavigator Clients evenly to different WebNavigator Servers, in accordance with the respective server license.

WebNavigator Client

The WebNavigator Client is started in Internet Explorer with enabled ActiveX controls. You can operate and monitor a current WinCC project without the entire WinCC basic system having to be installed on the computer.

You control access of the WebNavigator Clients in the user administration. A different start picture and language can be selected for each user. You can enable scalable access to different project areas and functions for individual users by assigning user authorizations.

The "WinCCViewerRT" Web Viewer program is used for visualization of web projects only. The program can be used in place of Internet Explorer to visualize the WinCC project. 4.1 Function overview

WebNavigator Diagnostics Client

The WebNavigator Diagnostics Client is particularly useful for the following activities:

- Remote diagnostics and operator control of multiple unmanned WinCC stations.
- Central remote maintenance using a Diagnostics Client to monitor several WebNavigator Servers.
- For Power Users who need guaranteed server access at all times.

The functionality of this Diagnostics Client is no different from that of a WebNavigator client. However, the Diagnostics Client provides guaranteed access to the WebNavigator Servers at all times. Access is independent of the number of users already logged on to the WebNavigator Server.

The Diagnostics Client licensing provides you with a cost-effective solution for accessing many WebNavigator Servers using one or a few WebNavigator Clients. You can combine WebNavigator and diagnostics licenses. The WebNavigator Server needs a Diagnostics Server license if a WebNavigator license is not already available.

4.2 Possible applications of WinCC/WebNavigator

4.2 Possible applications of WinCC/WebNavigator

4.2.1 WebNavigator Server on the WinCC Server

Linking WebNavigator Clients and WinCC projects via Intranet/LAN

The WinCC Server and the server component of the Web Navigator are installed on the same computer. The WebNavigator Clients operate and/or monitor the current server project via Intranet/LAN in an isolated solution.

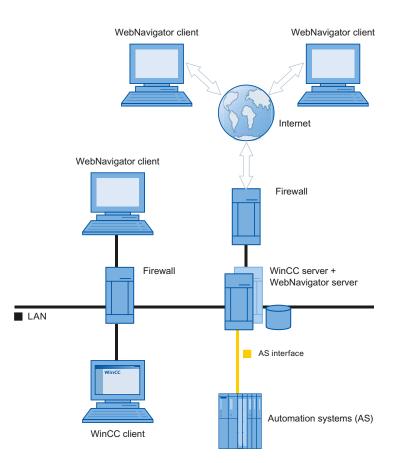
This cost-effective solution allows you to set up computer stations, for example, for the purpose of monitoring or maintenance. It is not necessary to install the complete WinCC system on these computers.

Linking the WebNavigator Clients and WinCC projects via Internet and Intranet

The WinCC Server and the server component of the Web Navigator are installed on the same computer. The WebNavigator Clients are able to operate and/or monitor the current server project via Internet and Intranet.

Two Firewalls are employed to protect against malicious attacks from the Internet. The first firewall protects the WebNavigator Server against an attack from the Internet. The second Firewall provides additional security for the Intranet.

4.2 Possible applications of WinCC/WebNavigator



4.2.2 Separation of the WinCC and WebNavigator servers

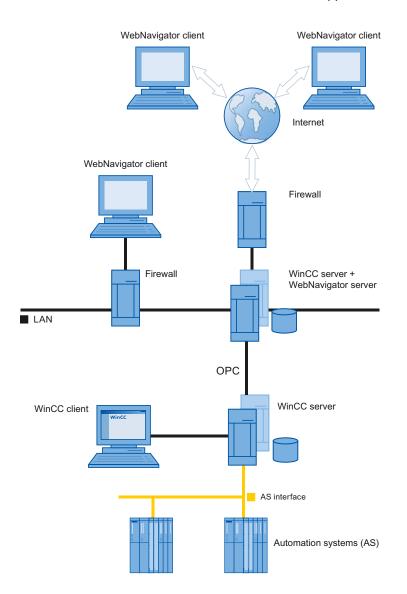
Communication via a channel

A group of automation systems is assigned to the WinCC Server. The project includes all data such as programs, configuration data and miscellaneous settings. On the computer that contains the WinCC and WinCC WebNavigator servers, the WinCC project is mirrored 1:1 and not networked with the automation systems.

Data is synchronized via the OPC channel. For this purpose, the WinCC WebNavigator Server needs a license for the number of OPC tags.

Two firewalls are employed to protect the system against unauthorized access. The first firewall protects the WebNavigator Server against an attack from the Internet. The second firewall provides additional security for the intranet.

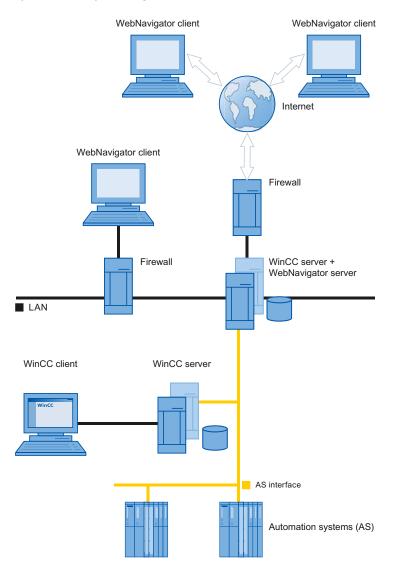
4.2 Possible applications of WinCC/WebNavigator



4.2 Possible applications of WinCC/WebNavigator

Communication via the process bus

On the computer that contains the WinCC and WinCC WebNavigator servers, the WinCC project is mirrored 1:1. Data is synchronized via the process bus. Two firewalls are employed to protect the system against unauthorized access.



4.2.3 Dedicated Web Server

Introduction

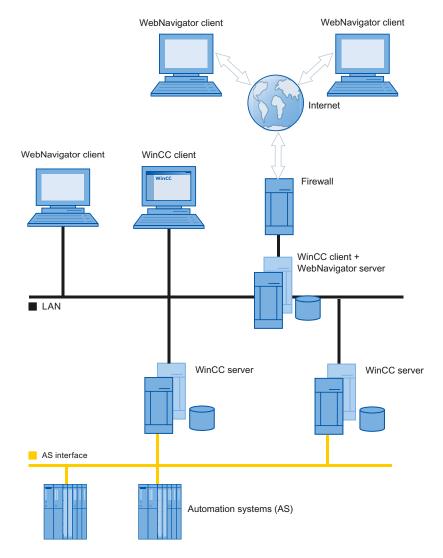
Installation of a dedicated web server is advantageous in larger-scale systems for the central data supply to the WebNavigator Clients. The dedicated web server processes and optimizes client access and is available to the clients as a proxy of the WinCC servers.

The functionality of the dedicated web server is provided by the installation of the WebNavigator server on a WinCC client.

4.2 Possible applications of WinCC/WebNavigator

Advantages of using a dedicated web server

- The load can be distributed over several dedicated web servers in order to enhance the performance of the complete system.
- The physical separation of the dedicated web server and the WinCC server on different computers increases security.
- Operation of the servers on different stations also permits the separation of operational functions, for example, plant support and the IT department.
- The dedicated web server is able to provide simultaneous access to several subordinate WinCC servers. Users logged on to the dedicated web server can access several WinCC projects, without having to log on separately for each project.
- The dedicated web server supports redundancy switchover between two subordinate WinCC servers with WinCC Redundancy.



4.2 Possible applications of WinCC/WebNavigator

4.2.4 WinCCViewerRT

Overview

You run the "WinCCViewerRT.exe" application instead of Internet Explorer on the WebNavigator Client. WinCCViewerRT is installed with the WebNavigator Client.

The example of WinCCViewerRT is that you do not need the browser. You therefore protect the system against virus or Trojan attacks.

The viewer only displays the pictures that you configured for web access and published on the WebNavigator Server. The user may operate or monitor the project, depending on authorizations. Users assigned authorization 1002 "Web access - monitoring only" in WinCC are only allowed to monitor the project. The WebNavigator Client is therefore a so-called "View Only Client".

The "View Only Cursor" indicates that process-related operations are not possible. Certain operations, such as opening the properties dialog of the WinCC OnlineTrendControl, are still possible.

You can also use WinCCViewerRT as terminal services application. For more information, refer to "Configuring terminal services for WebNavigator Server".

WinCCViewerRT does not support the "Load Balancing" function.

See also

Configuring terminal services for WebNavigator (Page 145)

4.2.5 WebNavigator Diagnostics Client

Overview

The WebNavigator Diagnostics Client provides cost-effective access to several WebNavigator Servers. Several Diagnostics Clients and standard clients can be used simultaneously. This process does not demand an additional license for WebNavigator Server. Licensing is handled on the Diagnostics Client. The WebNavigator Server needs a Diagnostics Server license if a WebNavigator license is not already available.

The Diagnostics Client can always access the WebNavigator Server, regardless of whether or not the maximum number of simultaneous logins to the WebNavigator Server has been reached. Diagnostics Client access to the WebNavigator Server is always guaranteed.

Possible applications include:

- Remote maintenance: The Diagnostics Client is used for consecutive access to different WinCC systems for the purpose of service and maintenance.
- Central maintenance: The Diagnostics Client is used for simultaneous access to several servers.

4.2 Possible applications of WinCC/WebNavigator

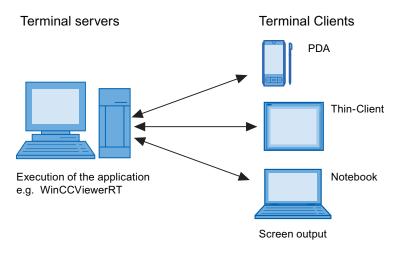
4.2.6 Terminal services and WebNavigator

Introduction

The terminal services of Windows server operating systems provide access to the desktop of a Windows server. The Terminal Client provides screen output while the application, for example, WinCCViewerRT, is active on the Terminal Server.

The Terminal Services only transfer the user interface of the application to the clients. Each client's keyboard inputs and mouse operations are returned back to the server.

For information on redundant system configurations with the Terminal Services, refer to the corresponding Microsoft documentation.



Advantages of the Terminal Services

- Use of robust hardware with low memory requirements for the clients, for example, without fans and hard disk in a dusty environment.
- Use of mobile clients with limited power consumption, e.g. handhelds, Palmtops, or PDAs.
- All applications are located on the server in a secure environment.
- Simple, central administration and system maintenance.
- Support of different operating systems, e.g. Windows CE, Windows 95.

4.3 Configuring the WebNavigator system

4.3.1 Overview of the configuration steps

Requirement

- The server and client are interconnected via TCP/IP.
- On the server
 - Internet Information Service is installed.
 - The WebNavigator Server is installed.
 - A license key is installed.
 - WinCC is installed.
- On the client
 - Internet Explorer is installed. or
 - WinCCViewerRT is installed.

Basic procedure

It is necessary to complete the following configurations in order to set up the WebNavigator system:

- 1. Configuration of the WinCC project.
 - Publish the WinCC process pictures for web access
 - Configure web settings
 - Create and administer users for access of the WebNavigator Client.
- 2. Configuration of the WebNavigator Server.
 - Configure the WebNavigator web page.
 - Configure the "Load Balancing" function, if necessary.
- 3. Consideration of the differences compared to the WinCC basic system and of restrictions.

4.3 Configuring the WebNavigator system

4.3.2 Configuring the WinCC project

4.3.2.1 Publishing WinCC process pictures

Publishing WinCC Process Pictures

Introduction

If you wish to display WinCC process pictures on the WebNavigator Client or DataMonitor Client, you have to publish the pictures. For publishing, you use the Web View Publisher, which automatically makes the necessary adaptations to the project data.

Overview

The Web View Publisher enables the following types of publishing:

- Publishing on the local computer. The current WinCC project folder is the source folder. The target folder is a subfolder, for example, "Projectname/WebNavigator/Pictures".
- Publishing on a dedicated web server with a server prefix. The source folder is the WinCC project folder on another WinCC computer that is defined by the server prefix. The target folder is located in subfolder ".../WebNavigator/Pictures" of the WinCC project on the WinCC Client. The pictures of your own project are saved with the name

"childred wind the pictures of your own project are saved with the name
"<picturename>.PD_", while the pictures of other projects are saved with the name
"<serverprefix>_ _<picturename>.PD_".

- Remote publishing. The source and target folders can be located on the same or different web servers. You can start the Web View Publisher on the web server with the source and target folder or on a third web server.
- Remote publishing on a dedicated web server or WinCC Client from a different remote station.

The project folder of the WinCC project must be released in Windows on the dedicated web server/WinCC Client. You can start the Web View Publisher remotely by opening the WinCC project of the web server/WinCC Client on the remote computer. On the remote station, you publish the WinCC pictures from other WinCC Servers to the dedicated web server.

The Web View Publisher performs the following adjustments:

- Compression of the data for optimizing performance on the Internet.
- Removal of project-specific data that is not required for the operation.
- Conversion of picture windows into an ActiveX component.
- Conversion of scripts so that they can be run on the Client.

Publication of pictures with faulty scripts

If warnings or errors are generated during publishing, the process pictures affected are marked in the output field of the Web Publishing Wizard. The pictures with errors in the scripts are nonetheless published. However, errors can still occur in Runtime and are reported by the WebNavigator Client.

The "PdlPad" tool can be started directly in the Web View Publisher in order to check and, if necessary, correct the scripts used in the published pictures.

Publishing Without Project Functions

Publishing without project functions can be an additional source of error. When publishing with the Web View Publisher, the selected project functions are always published. When published without project functions, the pictures no longer contain any project functions. The project functions of the last publishing process are always available in the published pictures and, therefore, on the client.

The selection of project functions in the Publisher is independent of the pictures published in the same process. If , for example, you modify selected project functions but not their interfaces, you need to publish all necessary project functions. In this case, you do not have to publish the picture.

Changing the process picture in Graphics Designer

Process pictures that you edit in runtime in Graphics Designer on the WebNavigator Server must be published once again. This is required for the process picture to be displayed on the WebNavigator Client.

When using a dedicated web server, open the WinCC project on that server from a remote station in order to transfer the changes to the WebNavigator Client. On completion, open and save the modified picture in Graphics Designer. Publish the picture in the next step using Web View Publisher on the dedicated web server.

If you have modified a large number of pictures, you can simplify this process. For this purpose, call the "Convert pictures" function in the shortcut menu of Graphics Designer. On completion, you once again have to publish the pictures.

See also

How to publish WinCC process pictures using Web View Publisher (Page 87) Requirements for publishing pictures (Page 86)

Requirements for publishing pictures

General requirements

- The picture names may not contain double underscores, e.g. "__furnace_overview.pdl". The string before the double underscore will be interpreted as server prefix.
- The package names and/or symbolic computer names may not contain any double underscores.

- Moreover, the name cannot begin with a single underscore if you are using Basic Process Control. When using Picture Tree Manager, the name string of higher-level pictures will have a "@PTN_" prefix. With the leading underscore, the picture name will then have a double underscore.
- If two header files of the same name exist in the project path and in the installation path of WinCC, Web View Publisher will use the header file from the installation path.

Requirements for publishing on a dedicated web server

- The Web Navigator Server is installed on the WinCC Client.
- The C and VB scripts of all WinCC servers to which the WinCC Client has access have been copied to the WinCC Client.
- The WinCC server packages that the WinCC Client can access are loaded on the WinCC Client.
- If you wish to publish projects on other computers, these computers must be linked by means of network drive before you start Web View Publisher. This procedure enables the display of your projects in the selection dialog of the Publisher. You cannot enter the path directly.

Requirements for remote publishing

- Access to the target and source folders is enabled for Web View Publisher. WinCC configures these Windows enables by default. Verify that these enables are not restricted, for example, valid for specific users only.
- If you wish to publish projects on other computers, these computers must be linked by means of network drive before you start Web View Publisher. This procedure enables the display of your projects in the selection dialog of the Publisher. You cannot enter the path directly.

See also

Publishing WinCC Process Pictures (Page 85) How to publish WinCC process pictures using Web View Publisher (Page 87)

How to publish WinCC process pictures using Web View Publisher

Introduction

Use Web View Publisher to publish the process pictures that you created in Graphics Designer. The WinCC Web Publishing Wizard supports you during publishing.

Procedure

 Select "Web Navigator" in the navigation window of WinCC Explorer. Select the "Web View Publisher" command in the shortcut menu. The WinCC Web Publishing Wizard is now launched.

🎭 WinCC Web Publishing Wizard - Introductio	n _OX
	SIEMENS
SIEMENS	The WinCC Web Publishing Wizard will help you publish your WinCC Pictures to a Web Server by preparing and copying the selected files from your WinCC Project to the Picture Publishing Folder of your WinCC Web Server.
	Skip this screen in the future.
2	Cancel <back next=""> Finish</back>

2. Click "Next".

4.3 Configuring the WebNavigator system

% WinCC Web Publishing Wizard - Select dire	ctories
	SIEMENS
17.5	Select the folder containing your WinCC pictures and the folder of the WinCC Web Server to which you will publish your pictures.
	Path to your WinCC project:
	Server Prefix
	D:\demoprojekt\WebDemoProjectV7\
	Publishing folder of the WinCC Web:
	D:\demoprojekt\WebDemoProjectV7\WebNavigator\
SIEMENS	Diagnostics:
	Show hidden objects
	Cancel < Back Next > Finish

3. Activate the "Server prefix" option if you want to publish the pictures on a dedicated web server.

Select the prefix of the WinCC Server that contains the WinCC project from the selection list. The list displays the prefixes of the servers whose packages are loaded on the WinCC Client.

Deleting a prefix from the selection changes the paths displayed in the fields below.

4. Under "Path to your WinCC project", select the WinCC project folder containing the pictures you want to publish.

The folder has the following format for publication on a dedicated web server: "\\<servername>\<serverprefix>__<projectname>".

If you want to publish from a remote station, select the source project containing the pictures. The source project is displayed by its enable name on the other WinCC Server.

The folder has the following format:

- "\\<computer name>\<enable name>".
- Select the target folder for the published pictures under "Publishing folder of the WinCC web".

Accept the proposed folder within the WinCC project folder.

Do not change the path specification unless you want to transfer pictures to a different project, for example. In this case, the prefix selection list will be expanded accordingly. Verify the specified target project to which the published pictures are saved during remote publishing.

The path definition will be updated when you select the source project.

Should the target project be located on another WinCC server, select the corresponding project.

- 6. Select the "Display hidden objects" option to show hidden objects that are published automatically in the results list.
- 7. Click "Next". Move the pictures that you wish to publish to the "Selected files" list.

NinCC Web Publishing Wizard - Select pictures		
	SIEMENS	
Add 🗙 Remove 🔡 🗸		
Files	Selected files	
 NewPdl2.PDL OLD_A_002_Slides_Allg & OLD_B_010_V7_Graphic & OLD_C_012_V6_Alarms & OLD_C_024_V6_Reports & OLD_C_025_V6_Reports & OLD_C_032_V6_Open & OLD_C_043_V6_Open & OLD_C_051_PAX_Chan & OLD_D_002_V6_Scalabi & OLD_D_029_Option_We & OLD_D_035_Option_We & OLD_D_036_V6_DataM & 	 A_001_Start_WinCC.pdl Addons_de.PDL Addons_Premium.PDL Applications_AST_Mining Applications Alarm.pdl Applications_AST_Paper Applications Applications_Airport.pdl Applications_AST_Plastic Applications Applications_AST_Ceme Applications_AST_Plastic Applications Applications_AST_Ceme Applications_AST_Plastic Applications Applications_AST_Ceme Applications_AST_Plastic Applications Applications_AST_Ceme Applications_AST_Plastic Applications Applications_AST_Food1 Applications_AST_Plastic Applications Applications_AST_Food2 Applications_AST_Power Applications Applications_AST_Food3 Applications_AST_Power Applications Applications_AST_Power Applications Applications_AST_Power Applications Applications_AST_Power Applications Applications_AST_Power Applications Applications_AST_Metal Applications_AST_Water Applications Applications_AST_Mining Applications_AST_Water Applications 	
	Cancel < Back Next > Finish	

8. Click "Next". Move the C project functions which you use in the published pictures to the "Selected files" list. You cannot publish individual VB scripts.

💁 WinCC Web Publishing Wizard - Select functions		
	SIEMENS	
Add 🗙 Remove 🔡 -		
Files	Selected files	
animate_press.fct	Image: Start_Audit_V Image: Start_Audit_Start_Excell Image: Start_Global_Excert Image: Start_G	
Cancel < Back Next > Finish		

Click "Next".

💁 WinCC Web Publishing Wizard - Referenced graphics		
SIEMENS		
Add 🗙 Remove 📰 🕶		
Files	Selected files	
>>>	Image: Second system Image: Second system Image: Second	AST.AlarmNa AST.AlarmNa AST.AlarmNa AST.AlarmS.o AST.AlarmS.o AST.Auto.br AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Auto.Di AST.Carbona AST.Carbona AST.Cement AST.Cement AST.Delta.br
Cancel < Back Next > Finish		
		1 11 1011

9. Move the referenced graphics that you wish to publish to the "Selected files" list.

Click "Next".

10. Click "Exit" to start publishing the pictures.

📬 WinCC Web Publishing Wizard - Finish	SIEMENS
The WinCC Web Publishing Wizard is finished collecting information.	
To publish your pictures, press Finish.	
List of result	
Status Name WinCC Web Publishing Wizard	Туре 🔺
Zoom_003_V6_Weitere	Screen
ZZZ_CreatePDLListe.pd The picture(s) have been published successfully.	Screen
ZZZ_Pageviews.pdl	Screen
ZZZ_Vorlage_PrevNext.	Screen
NewTrend.pdl OK	Screen
Image: Second	VBScript VBScript
Image: Second Control of	VBScript
Cancel < Back	Next > Close

Result

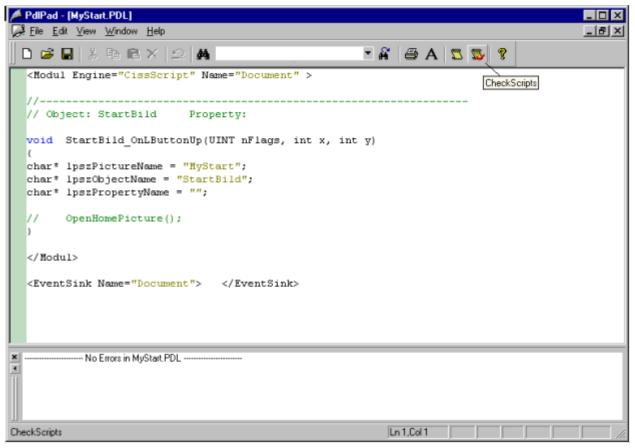
You have successfully published the pictures and functions. The results list displays the status of all published objects. You can click an object to view additional object information.

You can trace publishing using the "<projectfolder>\WebNavigator\WizardLog.txt" file.

Checking the scripts using "PdIPad"

The "WizardLog.txt" log file contains information about errors in the scripts used. You can also find errors using the "PdIPad" debugger.

1. Open "PdlPad" by double-clicking on the affected object in the results list of Web View Publisher. The script of the published picture is displayed.



- Click Solution in order to check the script.
- 3. You can temporarily correct and save the scripts. These corrections are only saved to the published pictures, not in the process picture of the WinCC project.

"PdlPad" can also be opened in the Windows Start menu via "SIMATIC > WinCC > WebNavigator-Server".

See also

Publishing WinCC Process Pictures (Page 85)

Requirements for publishing pictures (Page 86)

4.3 Configuring the WebNavigator system

4.3.2.2 Configuring web settings

Configuring runtime settings

Introduction

You can configure the behavior in Runtime in the "WinCC web settings" dialog.

Procedure

- 1. Select "WebNavigator" in the navigation window of WinCC Explorer. Select the "Web settings" command from the shortcut menu.
- 2. Change to the "Runtime" tab in the "WinCC web settings" dialog. Select the required settings. Close the dialog with "OK".

KinCC Web Settings		
Compatibility Runtime Gadget		
Design settings		
Use "WinCC classic" design		
Monitoring-only cursor		
Server workload		
50 Maximum count of concurrent connections		
3 Maximum count of tabs per browser		
Session logon/logoff		
Enable WinCC system messages		
Enable event log messages		
Disable local groups of SIMATIC Logon		
OK Cancel		

Use "WinCC Classic" design:

Select this option to improve the performance of the WebNavigator Client. The original style of WinCC V6 is now used.

"Monitoring only" cursor:

A default cursor shows that the user of the WebNavigator Client is not allowed to operate Runtime. The user has been assigned system authorization no. 1002 - "Web access - monitoring only" in the WinCC User Administrator.

If you want to use your own cursor, enter its path and file name. You can also use the "..." button to navigate to the file of the selected cursor.

Maximum number of simultaneous connections

Specify the maximum load on the WebNavigator Server. Specify the maximum number of connections for simultaneous access to the server. The number of configured gadgets is included in the count.

The number of simultaneous connections can exceed the number of WebNavigator licenses if, for example, several tabs are opened in the browser window. A limitation of "50" is necessary, since the server guarantees a maximum of 50 connections in normal operation without additional loads. The value must not be less than the actual number of WebNavigator licenses.

Maximum number of tabs per browser

Specify the maximum number of tabs per browser window. Multiple tabs in a browser window are counted as one WebNavigator license.

Activate WinCC system messages

The system messages "No. 1012400" or "No. 1012401" are output and archived at the login/ logoff of a WebNavigator Client.

Enable event log messages

A successful session login or logoff is recorded in the Windows event viewer.

Disable local groups of SIMATIC Logon

The WebNavigator Server can only be accessed by groups in the same domain.

WinCC pictures as gadget

Overview

Gadgets are mini applications for the Windows Sidebar. On a WebNavigator Client, you can display published WinCC process pictures in a gadget.

Specify the WinCC pictures for the gadget. In Runtime, the WebNavigator Server successively generates a cyclic snapshot image "pdlImage.jpg" of each picture. The file is saved to the "\WinCC\Webnavigator\Server\Web\image_gadget" folder. The gadget accesses the file at cyclic intervals and displays the currently generated picture.

The following objects are not displayed in a gadget:

- Global Script Diagnostics Window
- WinCC Media Control
- WinCC Controls from migrated projects that have been installed with versions before WinCC V7.0

Note

The pictures displayed cannot contain any user interaction. This includes calling login dialogs or notice dialogs by means of functions, for instance.

You cannot operate the picture that is displayed in the gadget.

NOTICE

Short update cycles place a high load on the WebNavigator system

Set a sufficiently long update cycle rate when an AlarmControl is displayed or a large number of process values for trend views are updated in the gadget.

If a process value has not yet been read from the controller at the time of the snapshot, the gadget displays the start value instead of the actual process value.

Requirement

- The Windows operating system must support the use of gadgets.
- The WebNavigator Client must be installed on the WebNavigator Server to enable configuration of the gadgets.

4.3 Configuring the WebNavigator system

Configuring the gadget on the WebNavigator Server

- 1. Select "WebNavigator" in the navigation window of WinCC Explorer. Select the "Web settings" command from the shortcut menu.
- 2. Change to the "Gadget" tab in the "WinCC web settings" dialog.

🔺 WinCC Web Settings	X
Compatibility Runtime Gadget	
Pictures	
Applications_AST_Mining1.PD_ Applications_AST_Mining4.PD_	Add
Applications_MillDemo.pd_ Alarm.pd_	Change
	Remove
Name	
Applications_AST_Mining1.PD_	
Language	
English (United States)	•
Clipping	
0 X-Position 0 Y-Position	
858 Width 686 Height	
✓ Timestamp 10 Update cycle	(sec)
OK	Cancel

- 3. Use the "..." button to select a published picture under "Name".
- 4. Specify the Runtime language for the selected picture.
- 5. Define the clipping of the selected picture that is displayed in the Gadget. As a rule, the process picture is too large for display in the Gadget. Ensure that the clipping has the same width and height as the gadget, or at least the same width/height ratio. Otherwise, the picture will be distorted in the gadget or displayed with a black frame.
- Click "Add". The picture is inserted into the "Pictures" list. Repeat steps 3 to 6 for additional pictures.
- 7. Select pictures for which you want to change the language or clipping from the list. Edit the settings and click "Change".
- 8. In the "Update cycle" field, specify the time interval that is to be used by the server for the cyclic update of the picture that is displayed in "pdllmage.jpg". The new picture is accessed at the start of the time interval. The current process values are read from the controller. At the end of the interval the snapshot is created and stored in "pdllmage.jpg".

The following example shows two process pictures with an update cycle of "10 s".

Time [s]	Image
10	Process_Picture_1 -> pdllmage.jpg
20	Process_Picture_2 -> pdllmage.jpg

Time [s]	Image
30	Process_Picture_1 -> pdllmage.jpg
40	Process_Picture_2 -> pdlImage.jpg

- 1. Select the "Time stamp" option if you want the gadget to display the date and time of generation of the picture.
- 2. Close the dialog with "OK".

Displaying gadgets on the WebNavigator Client

A pre-configured gadget for displaying WinCC pictures is available in the installation folder at "\WinCC\Webnavigator\GADGET" on the WebNavigator Client.

To access the gadget with the WebNavigator Client, proceed as follows:

- 1. Double-click "WebNavigator.gadget" in the installation folder at "\WinCC\Webnavigator \GADGET". The gadget is installed in the Windows Sidebar.
- 2. Specify the update cycle in which the gadget loads a picture from the WebNavigator Server.
- 3. Enter the address of the WebNavigator Server. The Gadget establishes a connection to the WebNavigator Server.
- 4. If necessary, drag-and-drop the Gadget onto the desktop.

Web settings for compatibility

Working with migrated projects

The following restriction existed for C scripts in WinCC/Web Navigator prior to V6.2. Instead of the complete path and picture name, the following parameters and functions returned only the picture name on the WebNavigator Client:

- Parameter "lpszPictureName"
- Function "GetParentPicture"
- Function "GetParentPictureWindow"

As of WinCC/WebNavigator V6.2, you can enable absolute addressing and therefore revoke this restriction for the WebNavigator Client, if required.

Select the desired response for the execution of C scripts:

- Picture name: Absolute addressing is disabled by default. The functions or parameters only return the picture name. Compatibility with older versions of WebNavigator Client and the C scripts created for these is maintained.
- Picture name and path: The absolute picture name is returned with the complete path. This response corresponds with the WinCC basic system. There is no need to modify the C-Scripts used on the WinCC basic system for execution on the WebNavigator Client.

Procedure

- 1. Select "WebNavigator" in the navigation window of WinCC Explorer. Select the "Web settings" command from the shortcut menu.
- 2. Change to the "Compatibility" tab in the "WinCC web settings" dialog.

A WinCC Web Settings	×
Compatibility Runtime Gadget	
C-Scripting	
Picturename: Within C-Scripts Parameters and functions deliver only the picture name back (corresponds to the behaviour of WebNavigator before version V6.2).	
Picturename and path: Within C-Scripts Parameters and functions deliver the absolute picture name including the path back (corresponds to the behaviour of the WinCC base system).	
OK Cancel	

- 3. Activate the desired response of the C-Scripts.
- 4. Close the dialog with "OK".

4.3.2.3 Administering the users for WebNavigator Client

Introduction

Assign authorizations to the user for operator control and monitoring for access to a WinCC project as WebNavigator Client. You can select a start picture and Runtime language for each user. Use the "Automatic Logout" function to specify the timeout for access of the WebNavigator Client to the WinCC project. The user will then be logged off automatically.

Automatic logout

The automatic logout provides the following advantages on a WebNavigator system:

- Access from the WebNavigator client to the WinCC project is subject to timeout. This
 enhances system security, particularly when using unattended clients that access the
 WebNavigator Server.
- The license used by the client is released again after the automatic logout.
- The current load on the WebNavigator Server is reduced after the automatic logout.

Requirement

- The WinCC process pictures were published using Web View Publisher.
- WinCC User Administrator is open.
- A user is created.
- System authorizations of the user are specified.
- The domain-specific authorizations are specified if the WinCC option "Basic Process Control" is used.

Procedure

🍿 User Administrator	- [DemoProject¥7.mcp]	_ _ X
File User Table View	Chipcard AddOns Help	
i ii ii ×-•		
winccd 	Login winced Understand	SIMATIC Logon WebNavigator Web options
winccd wincce winccf wincci	after Minutes alter idle time	Start Picture winccPic.pd_ Language Inglese (Stati Uniti)
	No. Function	▲ _
	1 User Administration C	
	2 Tag entering 0 3 Process controlling 0	
	4Picture Editing	
	5 Change picture 🤅 🦉	
	6Window selection	
	7 Hardcopy	
	8 Confirm alarms 0 9 Lock alarms 0	
	9Lock alarms 0 10Free alarms 0	
	11 Message Editing	
	12Start archive	
	13Stop archive	
	14Edit archive values	
	15 Archive Editing	
	16Action Editing	
4 >	17 Projectmanager 🛛 🔘	▼

1. Select the desired user in the navigation window.

- 2. The user's operating authorizations are displayed in the table window. If system authorization no. 1002 "Web access - monitoring only" has been enabled, the user is only allowed to monitor the WinCC project when acting as WebNavigator Client. If this system authorization is disabled, the other operating authorizations assigned to the user are valid. For this reason, check the settings of the other authorizations.
- 3. If applicable, specify the time until automatic logout in the "Automatic Logout" field.
 - Automatic logout is disabled if you enter "0" as time value.
 - The time configured for automatic logout starts at the time of login if you select the "Absolute time" option. The time expires independent of user actions.
 - If you select the "Inactive time" option, the configured time starts with the last keyboard
 or mouse operation by the user. The user is automatically logged out after this period
 of inactivity.

The "Automatic logout: disconnected from server" message is displayed after the automatic logout. You can refresh the page by pressing "F5" and reconnect with the WebNavigator Server.

- 4. Select the "WebNavigator" option in the table window. The "Web Options" area is displayed.
- 5. Click "..." to select the start picture for the user. You can only select published pictures as start pictures.

- 6. Use the "..." button to select the Runtime language for the user. You can select one of the languages installed in WinCC.
- 7. Close the User Administrator.

Restrictions when using SIMATIC Logon

The WebNavigator Server supports SIMATIC Logon. However, the following restrictions apply:

- If the user is a member of several user groups, a random group in which a start picture is configured will be selected. You cannot configure which group should be selected. The authorizations of all groups in which the user is a member are taken into account.
- Add the domain prefix to the user name in the login dialog of Internet Explorer: "<domain> \<username>".
- Password expiration during a client session has no influence on the operability of the WebNavigator Client.
- You can only change the password on the WebNavigator Server.
- The WebNavigator Client does not support the following functions when SIMATIC Logon is used on the WebNavigator Server:
 - Scripts
 - ODK functions
 - User Administrator

4.3.3 Configuring the WebNavigator Server

4.3.3.1 Configuring the WebNavigator web page

WinCC Web Configurator

Introduction

The WinCC Web Configurator is used to set up and manage the Microsoft Internet Information Service (IIS).

Requirement

- The WebNavigator Server is installed.
- The Windows "Internet Information Service" component is installed.

Starting WinCC Web Configurator

- Select "WebNavigator" in the navigation window of WinCC Explorer. Click the "Web Configurator" command in the shortcut menu.
- You can also click the "Web Configurator" shortcut on your desktop.

Initial configuration using WinCC Web Configurator

During the course of initial configuration, you specify whether you wish to create a new default web page or a new virtual folder.

HinCC Web Configurator		×
	Here, you can specify a name, IP address and TCP connection (default: 80) for your Web site: Name of the Web site: WebNavigator Port: IP Address: 80 (All not assigned) Default Web-Page: DataMonitor.asp Reconnect Interval 10 \$ To Start the web-site after being configured.	
	Cancel < Back Next > Finish	

If you only operate the Web Navigator web page on the server, select the "Create a new standard web page (standalone)" option.

To add the WebNavigator web page as subfolder to an existing web page, select the "Add to existing web page (virtual folder)" check option. This option may be necessary if the current default web page must remain active or if the operating system only supports operation of one web page.

Managing the configuration in WinCC Web Configurator

If IIS has already been configured, edit the settings of the existing web server or the virtual folder using the Web Configurator.

The Web Configurator automatically detects whether a configuration already exists. The dialog for editing the configuration opens if an existing configuration is found.

Note

Web folder was modified or deleted

If you have deleted the web folder, restart the computer before you create a new web folder with Web Configurator.

Note the following:

- If web communication fails after you have changed the web folder, the Web Configurator attempts to adjust the settings.
- If this action is unsuccessful, proceed as follows:
 - 1. Exit the IIS console.

2. To delete the WebNavigator web page, enter the following command line in the window "Run":

"<wincc_installationpath>\WebNavigator\Server\bin\WinCCWebConfigurator.exe" deinstall="yes".

3. Start the desired web page from the IIS console, for example, the standard web page. **WebNavigator web page under Windows XP**

The "Internet Information Service" functions cannot be used to delete an independent web page. You cannot delete an independent web page created with Web Configurator in order to create the WebNavigator web page as virtual folder instead.

Only one web page can be active under Windows XP, regardless of whether a different port has been assigned to every web page. If you need to open the default web page, the independent WebNavigator web page cannot be active at the same time.

To delete the independent WebNavigator web page, proceed as follows:

- 1. Exit the IIS console.
- To delete the WebNavigator web page, enter the following command line in the window "Run":

"<wincc_installationpath>\WebNavigator\Server\bin\WinCCWebConfigurator.exe" deinstall="yes".

3. Start the desired web page from the IIS console, for example, the standard web page.

Creating a new default web page

Introduction

You can create the standard web page using the WinCC Web Configurator.

Requirement

- The WebNavigator Server is installed.
- The Windows "Internet Information Service" component is installed.
- WinCC Web Configurator is started.

Procedure

1. Select the "Create a new standard web page (standalone)" option and then click "Next".

🔁 WinCC Web Configurator		X
WinCC Web Configurator	Here, you can specify a name, IP address and TCP connection (default: 80) for your Web site: Name of the Web site: WebNavigator Port: IP Address: IP Address: (All not assigned) Default Web-Page: MainControl.asp	X
	Reconnect Interval 10 s I Start the web-site after being configured.	
	Cancel < Back Next > Finish	

- 2. Select "Name of the web page" and enter the name.
- 3. Enter the number of the port used for access in the "Port" field. HTTP port "80" is set by default.

If you select a different port number, that number has to be appended to the server name in the address bar of Internet Explorer when a WebNavigator Client logs on, e.g. "http://<servername>:<portnumber>".

- At "IP address", specify whether the computer is to be available on the Intranet or Internet or on both networks. Use only the addresses that are available in the selection list. Select "All not assigned" to enable Intranet and Internet access to the computer.
- 5. Select the default web page to be displayed on the WebNavigator Client after selection of the web server.
 - MainControl.asp

Opens the WinCC Web Navigation interface and the start picture specified in the User Administration. You need the Web Navigation interface to download plug-ins, for example.

- WebClient.asp
 Opens the start picture you specified in the User Administration.
- 6. Specify the time interval for automatic connection setup after a connection failure. A time setting of "0" disables the "Automatic reconnection" function.

	7. Specify whether the web page is started once the configuration is completed.8. Click "Finish" if you have not activated a Firewall. Click "Next" if you have installed a Firewall.
Result	You have successfully created the web folder and activated the web page.
See also	Configuring the Firewall (Page 109)
Creating a virtua	l folder
Introduction	You can create a virtual folder using the WinCC Web Configurator.
Requirement	 The WebNavigator Server is installed. The Windows "Internet Information Service" component is installed. WinCC Web Configurator is started.
Procedure	1. Enable "Add to existing web (virtual folder)". Click "Next".

2.	Select the active	web page to wh	ich you want to add	the virtual folder.
----	-------------------	----------------	---------------------	---------------------

🔁 WinCC Web Configurate	D r	X
	Here, you can create a new Web Navigator site. If a site already exists, yo can make changes to the existing site of the Web Navigator with this.	u
	Default Web Site	
	Cancel < Back Next > Finish	

3. Click "OK" to close the dialog. Click "Next" in the next dialog.

http://www.configurator		×
MinCC Web Configurator	Here, you can change the name, IP address and TCP connection (default: 80) of your Web site: WebNavigator Port: Internet Address (URL): 80 (All not assigned) Default Web-Page: WebClient.asp	×
	Start the web-site after being configured.	
	Cancel < Back Next > Finish	

- 4. Select "Name of the web page" and enter the name.
- 5. Web Configurator applies the IIS settings as port number and IP address.
- 6. Select the default web page to be displayed on the WebNavigator Client after selection of the web server.
 - MainControl.asp

Opens the WinCC Web Navigation interface and the start picture specified in the User Administration. You need the Web Navigation interface to download plug-ins, for example.

- WebClient.asp
 Opens the start picture you specified in the User Administration.
- 7. Specify the time interval for automatic connection setup after a connection failure. A time setting of "0" disables the "Automatic reconnection" function.
- 8. Specify whether the web page is started once the configuration is completed.
- 9. Click "Finish" to complete the configuration.

Result

You have created the virtual web folder and the web page is activated.

On the WebNavigator Client, add the name of the virtual web folder to the URL to enable access to the web page, e.g. "http://WebServer/WebNavigator".

No active web page

If no active web page is found, the Web Configurator terminates with a message.

Activate a web page before you restart the Web Configurator. For more information, refer to "Checking the activated web page".

See also

Configuring the Firewall (Page 109) Check the activated web page (Page 114)

Configuring the Firewall

Configuring the Firewall in Windows XP/Windows 2003

Introduction

This section describes how to activate the "HTTP" or "HTTPS" services and the procedure for other port settings in Windows XP or Windows 2003.

Requirement

- A default web page was created using the Web Configurator.
- The Firewall is activated.
- The user who is logged has Windows administrator rights.
- You have to set up the HTTPS service in IIS if you are using it for WebNavigator. For more information, refer to "Setting up an HTTPS service in IIS (<u>http://support.microsoft.com/kb/</u><u>324069</u>)".

Procedure for the default port

1. Click the "Windows Firewall" button in the Web Configurator.

WinCC Web Configurato	r	×
	Configuring the Windows-Firewall Please select in the register 'Advanced' of 'Windows-Firewall' the network connection for which users from the Internet should be permitted access. Activate via 'Settings' the services 'Webserver (HTTP)' or 'Secure WebServer (HTTPS)'. Windows-Firewall	
	Cancel < Back Next > Finish]

The "Windows Firewall" dialog opens.

2. Click the "Advanced" tab.

Select the required network connection and then click the "Settings" button. The "Advanced Settings" dialog opens.

🍅 Wir	ndows Firewall	x				
Gen	eral Exceptions Advanced					
	Network Connection Settings Windows Firewall is enabled for the <u>c</u> onnections selected below. To add exceptions for an individual connection, select it, and then click Settings: I 1394-Verbindung Settings					
-	✓ LAN-Verbindung Advanced Settings					
	Services ICMP					
	Select the services running on your network that Internet users can access.					
	Services					
	Internet Mail Access Protocol Version 3 (IMAP3)					
	Post-Office Protocol Version 3 (POP3) Remote Desktop					
[Secure Web Server (HTTPS) Telnet Server					
1	✓ Web Server (HTTP)					
		_				
	Add Edit Delete					
	OK Cancel					

- 3. Select the "Secure Web server (HTTPS)" or "Web server (HTTP)" check box. Click the "Edit" button to display the current service settings for the web server.
- 4. Close all Windows dialogs with "OK".
- 5. Click "Finish" in the Web Configurator. The server configuration is completed.

Procedure for other port settings

Customize the Windows Firewall settings as follows if you are not using the default port.

- 1. Click the "Windows Firewall" button in the Web Configurator. The "Windows Firewall" dialog opens.
- Click the "Advanced" tab. Select the required network connection and then click the "Settings" button. The "Advanced Settings" dialog opens.
- 3. Click "Add" in the " Advanced Settings" dialog. The "Service Settings" dialog opens.

😸 Windows Firewall 🛛 🛛 🔀
General Exceptions Advanced
Network Connection Settings Windows Firewall is enabled for the <u>c</u> onnections selected below. To add exceptions for an individual connection, select it, and then click Settings:
✓ 1394-Verbindung Settings ✓ LAN-Verbindung
Advanced Settings
Services ICMP
Select the services running on your network that Internet users can access. Service Settings Services Description of service: Internet WebServer2 Internet Name or IP address (for example 192.168.0.12) of the computer hosting this service on your network: Post-Offi Wenstein Remote Secure V Telnet S External Port number for this service: WebSer 8080 Internal Port number for this service: 8080
OK Cancel
Add Edit Delete
OK Cancel

- 4. Specify the web server settings:
 - Web server name in the "Service description" field
 - Name or IP address
 - External and internal port number for this service
 - "TCP" service

Confirm with "OK".

- 5. Activate the web server you created in the "Advanced Settings" dialog.
- 6. Close all Windows dialogs with "OK".
- 7. Click "Finish" in the Web Configurator. The server configuration is completed.

Configuring the Firewall in Windows 7/Windows 2008

Introduction

The chapter describes how to activate "HTTP" and "HTTPS" services for port "80" in Windows 7 or Windows 2008.

Consult your network administrator if you want to set up the Windows Firewall with advanced security or for a different port.

Requirement

- You have created a default web page with Web Configurator.
- The Firewall is activated.
- The user who is logged has Windows administrator rights.
- You have to set up the HTTPS service in IIS if you are using it for WebNavigator. For more information, refer to "Setting up an HTTPS service in IIS (<u>http://support.microsoft.com/kb/324069</u>)".

Procedure for the default port

- 1. Click the "Windows Firewall" button in the "WinCC Web Configurator". The "Windows Firewall" dialog opens.
- Windows 7: Click "Allow a program or feature through Windows Firewall". Windows 2008: Click "Allow a program to communicate through Windows Firewall".
- 3. Activate "Secure WWW services (HTTPS)" or "WWW services (HTTP)".
- 4. Close all Windows dialogs with "OK".
- 5. Click "Finish" in the Web Configurator. The server configuration is completed.

Check the activated web page

Procedure in Windows XP/2003

- 1. Select "Programs > Administration > Internet Information Services" from the Windows Start menu. The "Internet Information Services" editor opens.
- 2. Click on the plus symbol next to the computer name in the "Structure" field.
- 3. Click on the plus symbol next to "Websites". The data window displays the corresponding web pages.
- 4. Check the view of the web pages. If the status "Stopped" is displayed next to the required web page, for example, "WebNavigator", start the web page.

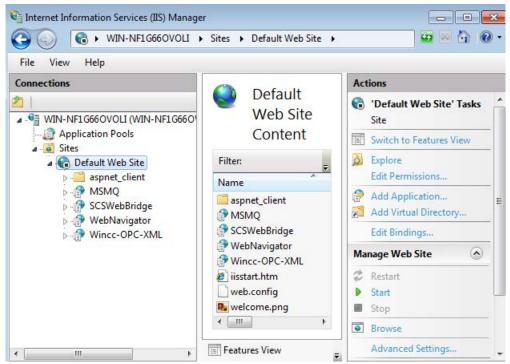
Select the "Start" command from the shortcut menu to launch the web page.

Services				
Action ⊻iew	🖬 😭 🔂 🗟 😫 💆	▶ ■		
Tree	Description	State	Host Header Name	IP Address
Internet Information Services	🛛 🗒 Default FTP Site	Running		* All Unas:
	Default Web Site (Stopped)	Stopped		* All Unas:
	😥 WebNavigator	Running		* All Unas:
	Server 20 Server	Running		* All Unas:
1				

5. Close the editor. The web page is activated.

Procedure in Windows 7/2008

1. Select "All programs > Administration > Internet Information Services (IIS) Manager" from the Windows Start menu.



- 2. Click the computer name in the "Connections" field.
- 3. Click "Default Web Site".
- 4. Check the view of the web pages.
 If the status "Stopped" is displayed next to the required web page, for example, "WebNavigator", start the web page.
 Select the "Start" command from the shortcut menu to launch the web page.
- 5. Close the "Internet Information Services (IIS) Manager". The web page is activated.

4.3.3.2 Load Distribution Using the "Load Balancing" Function

Load balancing on WebNavigator Servers

Overview

The "Load balancing" function allows you to automatically distribute the WebNavigator Clients evenly to different Web Navigator servers. All WebNavigator Servers can participate in load balancing using their respective server license.

A WebNavigator Server can act either as Load Balancing Server or only as participating WebNavigator Server.

A Load Balancing Server is automatically a participating WebNavigator Server, too.

Several Load Balancing Servers can be configured in a group of participating WebNavigator Servers.

Load balancing sequence

Following the login of a WebNavigator Client, the Load Balancing Server transfers the client to the participating WebNavigator Server with the lowest load.

The clients are allocated using the "LBConfig.xml" file. The file is available in the "Project folder/ WebNavigator".

If the fewest clients are logged on to the Load Balancing Server, the new client remains connected to that server.

If a participating WebNavigator Server fails, the clients logged on to it remain in the Reconnect Screen until this Webserver is available again.

The address of a WebNavigator Server does not depend on whether it is activated as a Load Balancing Server.

Licensing

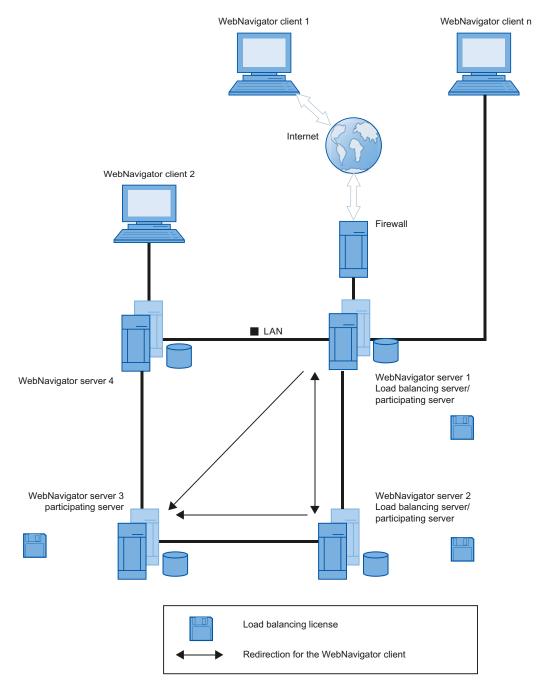
The "Load balancing" function supports a maximum of 32 interconnected WebNavigator Servers.

All participating WebNavigator Servers and Load Balancing Servers need a "Load balancing" license.

No license is necessary on the WebNavigator Clients.

When using WinCC computers with WinCC Redundancy, you can operate a Load Balancing Server or participating WebNavigator Server using the "WinCC Redundancy" and "Load Balancing Step-Up" licenses.

Example



In the figure, WebNavigator Servers 1 to 3 participate in "Load Balancing". A "Load Balancing" license is installed on the WebNavigator Servers.

WebNavigator Servers 1 and 2 are configured as Load Balancing Server.

When WebNavigator Client 1 logs on to WebNavigator Server 1 or 2, it is routed automatically to the server that is with the lowest load.

If the WebNavigator Server to which it is connected fails, Client 1 is re-routed to one of the remaining WebNavigator Servers.

WebNavigator Server 3 participates in "Load Balancing", but it is not configured as Load Balancing Server.

In the case of a high load or on the failure of Server 1 or Server 2, the WebNavigator Clients can be re-routed to Server 3. If WebNavigator Server 3 fails, the client cannot be re-routed to Server 1 or 2, irrespective of any active connection.

WebNavigator Server 4 does not participate in "Load Balancing". A logon of WebNavigator Client 2 to this server will possibly fail because load limits are exceeded on the server. On failure of WebNavigator Server 4, the client cannot be re-routed to one of the WebNavigator Servers 1 to 3, irrespective of any active connection.

Settings for the use of a proxy server

The use of a proxy server may have the effect that the target address "http://<servername>" of the participating WebNavigator Server or Load Balancing Server is replaced with "http:// <servername.proxyname>".

The addressed WebNavigator Server will not be found. For this reason, you must enter the target addresses on the servers involved of all other participating servers in Internet Explorer. Enter the addresses in "Tools > Internet Options > Connections > LAN Settings > Advanced", "Exceptions" field.

Note

The "WinCCViewerRT.exe" application does not support "Load Balancing".

See also

Configuring the "Load Balancing" Function (Page 118)

Configuring the "Load Balancing" Function

Introduction

You need a license on each participating WebNavigator Server and Load Balancing Server.

All Load Balancing Servers and participating WebNavigator Servers are included in the list of Load Balancing Servers.

The order of all listed participating servers must be identical on all Load Balancing Servers.

Set up the query interval and activate the "Load Balancing" function.

A configuration is not necessary on the WebNavigator Clients.

Note

Identical lists of participating WebNavigator Servers

The lists on the Load Balancing Servers and all participating WebNavigator Servers must be identical to ensure uniform functionality in the case of the failure of a WebNavigator Server.

Settings for a migrated project

The "Load Balancing" settings are saved for each specific project. You need to save the settings once again in order to activate these for a migrated project. Start the configuration dialog and confirm the settings with "OK".

WebNavigator Server with "WebNavigator Diagnostics Server" license

A WebNavigator Server with "Web Navigator Diagnostics Server" license cannot be included in the list of servers that participate in Load Balancing.

Requirement

- The WinCC basic system, WebNavigator Server and a "Load Balancing" license are installed.
- The same users are configured on all participating WebNavigator Servers and Load Balancing Servers.
- The default web page for WebNavigator must have been created as "standalone" on the WebNavigator Server.

Procedure

- 1. In WinCC Explorer, select the "Load Balancing" command from the "WebNavigator" shortcut menu. The "Load Balancing Configuration" dialog is opened.
- In the top field, enter the address of a WebNavigator Server that participates in "Load Balancing". Click "Add" to include the address in the list of servers. Repeat the process for each WebNavigator Server that participates in "Load Balancing". Supplement the name of the Load Balancing Server in the list. You can always remove a server name from the list. Select a name from the list and click "Remove".

🐂 Load Balancing Configuration	_ 🗆 ×
Enter Server to participate in Load Balancing	
http://	
Add Remove	
http://pc200 http://pc206	
🔽 Enable Load Balancing	
Polling Intervall (sec) 5	
Save OK Ca	ancel

- Select the "Enable Load Balancing" check box to activate the local WebNavigator Server as Load Balancing Server. The check box remains deactivated on the participating WebNavigator Servers.
- The list of servers is retained even when you clear the check box.In the "Polling Interval" field, select the time interval for polling the other participating
- WebNavigator Servers. The time interval is only relevant on a Load Balancing Server.
- 5. Click "Save".

- 6. Close the dialog with "OK".
- 7. Repeat the procedure on all participating WebNavigator Servers and Load Balancing servers.

The modifications take effect when WinCC Runtime is restarted.

4.3.4 Differences to the WinCC Basic System

4.3.4.1 Functional restrictions

Introduction

The WebNavigator has certain functional restrictions compared to the WinCC basic system. You should therefore check your WinCC projects for these restrictions and adjust the project settings as required.

Overview

When you use functions that are not supported in a project, corresponding messages are generated in Runtime to draw your attention to the fact.

The following restrictions apply to the WebNavigator Client:

- The client provides only a view of the running WinCC project. It is not possible to configure the WinCC Server projects.
- You can only use WinCC options and WinCC add-ons if specified explicitly in the documentation.
- Not all "Runtime API functions" are supported. A list of supported functions is available at "Supported functions (Page 150)".
- For information on restrictions in combination with Basic Process Control, refer to "Options for Process Control > Overview of process control system options > Configuring in the PCS 7 environment > Web Client in the WinCC Information System.
- The WinCC reporting system is not supported. This means that reports can only be output on the Web Navigator Server and WinCC Client.
- You cannot use the print function in the WinCC Controls. Instead, use the WinCC hardcopy function to print. You can find out how to use the hardcopy function at "Using the "Hardcopy" function (Page 139)". The following FAQ shows how to transfer coordinates, for example, to print the TrendControl only: FAQ 21606152 (<u>http://support.automation.siemens.com/WW/view/en/21606152</u>)
- The message archive and message system can only be operated and monitored. You cannot modify the selection of archives and tags for the visualization of the process values.

• The "WinCC Alarm Control" function does not support the "triggers an action" property for a message.

For the correct display of message blocks, the "Apply project settings" option cannot be activated. You can find this option on the "Message blocks" tab of the "WinCC AlarmControl" properties dialog.

- The hotkeys configured in WinCC are not supported. Operator control using the tab key is supported.
- The following objects contained in the "Global library/Operation/Operating panels" folder of the WinCC shared library are not supported:
 - 1_Slider
 - 2_Slider
 - 4_Slider
- National special characters in names of process pictures or referenced graphics are not supported on the Internet.
- The overlap lock in process pictures is not supported.
- The advanced zoom functions cannot be disabled. If you do not want to employ the zoom functions, do not use a wheel mouse with "auto-scroll" setting on the client.
- The redundancy switch is only supported on the dedicated web server.

4.3.4.2 Using Scripts

Scripts running exclusively for the WebNavigator

```
In order to execute scripts only for the WebNavigator, use the pre-processor definition
"RUN_ON_WEBNAVIGATOR" in the script. For example:
void OnOpenPicture (char* lpszPictureName, char* lpszObjectName,
char* lpszPropertyName)
{
    #ifdef RUN_ON_WEBNAVIGATOR
    // here you enter the code that is to be executed only in the
WebNavigator
#else
// here you enter the code that is executed only in the WinCC basic
system
#endif
}
```

Visual Basic Script

There are only slight restrictions imposed by unsupported functions when VBS is used. A list of these functions is available at "Unsupported functions (Page 160)".

Global Script

You configure the scripts on the WinCC Server in the server project.

Global scripts cannot be executed on the WebNavigator Client. Global Scripts on the server are supported.

The scripts generated using the Dynamic Wizard cannot contain unsupported functions and, therefore, cannot be executed on the WebNavigator Client. Check and correct the scripts, if necessary. Add the following condition, for example: "#ifdef RUN_ON_WEBNAVIGATOR".

Script with trigger tags

The WebNavigator queries tags at cyclic intervals of "1 second". The update cycle of trigger tag "upon change" is also one second.

This may lead to an increased communication load between the AS and WinCC Server. Take increased loads into account if communication between the AS and WinCC Server is operated at load limits.

If tag-triggered scripts request additional tags having a name that is generated using a string function, for example, unknown tags can only be read synchronously. Enter the tag names you are using in the trigger list in order to avoid extended selection times.

Script for picture selection and deselection

In contrast to the basic system, a picture is downloaded in asynchronous mode when WebNavigator is used. Account for this fact when using scripts that contain picture changes.

If a picture selection for a picture window is initiated within a script, you cannot access the objects of the new picture within the same script afterwards. The picture is not yet loaded at this time. A time delay, e.g. "Sleep(2000)" is of no help since the script and Internet Explorer are waiting. You should then execute the next script elements in the "OpenPicture" function that is triggered after the picture is loaded.

Other functions called in the script following a picture deselection will be executed with errors or not at all. The picture context is lost due to the picture deselection.

Synchronous script functions

Synchronous script functions impose a heavy load on the system.

You should therefore refrain from using the "SetTagxxx" function in cyclic scripts. The server will be overloaded when many clients call the "SetTagxxx" functions in a fast cycle, e.g. 1 sec or less.

Note that the following script functions and calls are transferred synchronously to the server:

- Functions that write a tag in synchronous mode and then wait for the result, e.g. "xxxWait"
- C-API calls

The frequent use of these scripting functions and calls has a negative effect on the performance of the WebNavigator Client. In the case of an Internet connection, the duration of these calls may even be in the seconds range.

Script functions that manipulate the objects in the displayed picture are of no concern since no data traffic takes place between the client and server.

Picture in picture method and cyclic scripts

Many synchronous calls in a picture may reduce performance, for example, in the following cases:

- More than ten windows are configured in a picture window.
- Cyclic scripts with synchronous calls, for example, "SetTagxxx", are used in the windows.

Execution of certain scripts may fail due to timeout.

The following elements are supported in a window:

- 16 windows with cyclic scripts.
- 31 windows without cyclic scripts.

4.3.4.3 Using tags

Computer-local tags

The WebNavigator Client supports computer-local tags with the following restrictions:

- When a dedicated web server is used, only the computer-local tags of that server are available on the client. The tags on the client cannot assume their own values.
- Computer-local tags of the subordinate WinCC servers cannot have their own values on the client.
- The start value of computer-local text tags can only contain characters that are allowed in tag names. If the start value of a text tag contains a colon, for example, the tag is not recognized on the client.
- Computer-local tags are not supported on the client when User Archives are used, because User Archives can only identify the local tags of the server, but not the tags of the WebNavigator Client.

Defining picture-local script tags

Do not use WinCC tags for WebNavigator if picture-specific data is stored in scripts.

The reading or writing of data in scripts always generates data traffic to the server. This places a load on the communication.

You can save picture-specific data as follows:

- Configure "hidden" graphic objects so that you can use their properties as picture-specific tags. Actions are executed at the object properties upon changes to the stored values.
- You have created the hidden "static text" object, for example. The "Text" property is used to store any texts, while the color properties are used to store any colors. The properties are read and/or written using scripts and influence the picture status without requiring a roundtrip to the server.

4.4.1 General properties of the WebNavigator Client

Automatic connection setup after connection interruption

If communication between the WebNavigator Client and WebNavigator Server goes down, a message is output to the user on the client.

The client performs an automatic connection establishment. Upon successful connection setup, the start page of the WinCC project is selected. Specify the time interval between attempts to set up a connection in the Web Configurator.

If a Firewall or proxy server is used in client/server communication, the client logon may be successful, but automatic reconnection will not work. When attempting to reconnect, the client uses "ICMP Ping", which may be blocked by the Firewall or proxy server. In this case, deactivate the use of "ICMP-Ping" by the client for reconnection. The "Reconnect > Deactivate ICMP Ping" setting is available under "Settings > WebClient Properties" in the Web Navigation interface or via the "ClientConfig.asp" page.

Contents of the address bar

Character strings which cannot be interpreted and are not relevant to the user are displayed on the address bar of Internet Explorer. For example, the "loadbalancing=no" entry may appear, but it does not represent a status indication for the servers participating in Load Balancing.

Enter characters in the address bar when logging on and check the server name and port.

Login by means of direct input in Internet Explorer

The Microsoft Security Patches for Internet Explorer now prevent the WebNavigator Client login by input of the user name and password in the address bar.

"AutoComplete" entries and links in the progress bar

The entries in the address bar of Internet Explorer are displayed as a link in the progress bar or suggested as "AutoComplete" entries for subsequent input. However, you cannot use these functions without verification when a WebNavigator Client logs on to a WebNavigator Server with Load Balancing.

At its initial login on a server with Load Balancing, the client is re-routed to a second server. Internet Explorer displays the address of the second server in the progress bar or as an "AutoComplete" entry. The link in the progress bar or the "AutoComplete" is applied without verification at the next client login. The client is then logged on to the second server.

WebNavigator Client with several power users

Once a power user has installed a new WebNavigator Client version on a computer, all other power users of this computer must upgrade to the new version.

Inconsistency of the versions employed by power users may lead to problems.

This also applies when a power user connects to a server that hosts an older version of WebNavigator.

Persistency in Runtime

The persistency data for pictures and objects is stored in each case on the WebNavigator Client. Observe the following points when working on the server with several projects that contain pictures or objects of the same name:

If you create a persistency for a project picture in Runtime, that persistency is also applied to the picture of the same name in other projects.

The persistency settings you defined once for a server picture on the dedicated web server will be applied to the respective WebNavigator Client.

Persistency for WinCC Controls

In Controls for WinCC V7 or later, reset the settings in the Control properties on the "Online Configuration" tab.

The persistency files for Controls prior to WinCC V7 are located in the folder "Documents and Settings/User/Application Data/Siemens/SIEMENS.WINCC/WebNavigator/Client" on the WebNavigator Client.

You have the following options of undoing the settings in the Controls in which Runtime persistency was activated:

- Resetting individual settings in the Control.
- Deleting the file.

Text changes in the text library

If you change a text from the text library in Runtime, the WebNavigator Client does not automatically detect this. In order to refresh the displayed pictures, reload the picture in Internet Explorer using the "Refresh" icon or the "F5" key.

Language-dependent texts as text references

Language-dependent texts via text references are displayed on the WebNavigator Client in the language currently set on the associated WinCC Server.

The same applies to a WinCC Client with its own project on which text references of a second WinCC Server have been loaded by means of packages. If a WebNavigator Client is logged on to this WinCC Client, the text references of the second WinCC Server are displayed on the WebNavigator Client in the current language of the server.

WinCC Slider Control

Set the "Continuous_Update" property to "No" when using the WinCC Slider Control. If you set this property to "Yes", the slightest change to the position generates an event trigger. This setting causes a heavy communication load on the WebNavigator Client.

Removing the ProTool/Pro software

The Controls of the HMI Symbol Library are deregistered if you remove the ProTool/Pro software on a WebNavigator Client. Reinstall the WebNavigator Client in order to recover access to the Controls.

Access of the WebNavigator Client to a WinCC flexible Sm@rt Server

A WebNavigator Client can call the "Change server" function using the Web Navigation interface to access a WinCC flexible Sm@rt Server.

4.4.2 Process pictures on the WebNavigator Client

Picture change on dedicated web server

If a picture with a server prefix was loaded on the dedicated web server, no picture of the local WinCC project can subsequently be displayed without server prefix.

To display a picture of the local client project, use the server prefix "@local" for addressing, e.g. "@local::picture123.pdl".

When executed, the OpenPicture() function opens the higher-level picture of the executing object on the dedicated web server.

Project functions in pictures

The project functions are loaded when a project is initially selected after the start picture has been loaded.

For this reason, a delay may be generated between the initial display of the start picture and execution of operator actions. Although the picture is displayed, it cannot be operated until a delay of approximately 1 second has expired.

Picture window on the WebNavigator Client

After you rename a picture in a picture window, the "Object change" event of the picture window is executed several times on the WebNavigator Client.

The event is executed only once in the WinCC basic system.

This response on the client is system-related, because the asynchronous operating principle of the Internet connection may trigger multiple updates of the picture window object. This response has no implications in terms of functionality.

WinCC web browser OCX on the WebNavigator Client

- The "Allow ActiveX Controls" check box has to be activated in the "Security" tab in the Internet options of Internet Explorer.
- If you select a link in a process picture on the WebNavigator Client using the WinCC web browser, the "Back" button will not work during the initial display of the linked page. The function is not properly executed until the page is called a second time. The incorrect behavior persists after a change of the process picture.
- The WinCC web browser serves to display static web contents or CHM documents in process pictures. Contents with scripting functionality are not supported.
- If you want to disable the right mouse button in the WinCC web browser to prevent the WinCC Client from accessing the shortcut menu, proceed as follows:
 - Use Microsoft "Group Policy Object Editor" (Gpedit.msc).
 - Select the path "\Windows Components\Internet Explorer\Browser menus" and set the shortcut menu to "Disabled".

Performance when using WinCC UserArchiveControl

Changes to a user archive trigger the update of the WinCC UserArchiveControl that is displayed. The following factors affect the performance of the process pictures with WinCC UserArchiveControls on the WebNavigator Client:

- Reduce the number of WinCC UserArchiveControls that simultaneously access a user archive to the minimum.
- Do not configure more than the necessary number of cyclic changes in the user archive.

4.4.3 Operating the WinCC project with Internet Explorer

4.4.3.1 Operating the WinCC project with Internet Explorer

Requirement

- On the server
 - The WebNavigator Server is installed.
 - The "WinCC WebNavigator" license is installed.
 - The WinCC pictures are configured and published for web access.
 - A user for the WebNavigator Client was created in WinCC User Administrator.
 - A start picture was specified for the user in the User Administrator.
 - The WinCC project is in Runtime.
- On the client
 - The WebNavigator Client is installed.
 - Internet Explorer is installed.

Procedure

- 1. Go to the address bar of Internet Explorer and enter the address "http:// www.<servername>" of the WebNavigator Server.
- 2. Confirm your entries.
- 3. Type in the user name and password. Confirm your entries.

Note

Passwords are case-sensitive.

Result

The default web page is displayed. The view depends on the configuration:

- With "WebClient.asp" setting for the default web page, the WebNavigator Client starts with the start picture that is specified for the user.
- With "MainControl.asp" setting for the default web page, the WebNavigator Client starts with the start picture that is specified for the user plus the WinCC Web Navigation interface.

See also

Administering the users for WebNavigator Client (Page 100)

4.4.3.2 Working with the WinCC Web Navigation interface

Menu of the WinCC Web Navigation interface

In addition to the start picture, the WebNavigator Client displays the WinCC Web Navigation interface when "MainControl.asp" is configured as the default web page.

WinCC Web Navigator - Microsoft File Edit View Favorites Tools			
G Back ▼ O ▼ N 2 C		🔗 🖓 • 107 • 🤮	
Address Address http://pc200/webnavigato			🖵 💽 G
Web Navigator			
Change Server			
MyProject 🏾 🛞		Enter Your Messa	an Uara I
ettings 🛞			ge Here i
ews 🎯	Applications		
anguage 🛞			AP
	Pump		
	Mill		
	Picture blocks	PROT	
	Trends		
	Animation		
	Loading		
Done			Local intranet

The Web Navigation interface provides a compilation of different web functions in its menus:

- "Change server": Changes to a different WebNavigator Server.
- "Used servers": Navigates to the web servers used previously.

- "<Name of the current server>" (e.g. "MyProject", or "localhost"):
 - Process pictures: Display or picture navigation of the current WebNavigator Server.
 - Diagnostics: "Status.html" for diagnosing the WinCC project and the connection to the WebNavigator Server.
 - Additional tools: Can be expanded by the user, e.g. "DataMonitor".
 - Download area: Expansions for WebNavigator and plug-ins that were created using WinCC Plug-In Builder.
 The plug-ins are available at "WebNavigator/Server/Web/Install/Custom" in the installation folder on the WebNavigator Server.
- "Settings": Setting for the WebNavigator Client, e.g. size of the process picture or activation of the screen keyboard.
- "Current": Links to web pages such as "SIMATIC HMI", "WinCC", or "WinCC flexible".
- "Language": Language change function for the WinCC Web Navigation interface Five languages are available by default. You can customize the language options in the "Menu.xml" file.

The languages are stored in CSV file format in the "_languages / <language_identifier>" subfolder on the WebNavigator Server. In order to add languages, reference the language files in the "mainControl.asp" file.

4.4.3.3 Expanding the WinCC Web Navigation interface

Introduction

The menu of the Web Navigation interface may be expanded by additional entries and functions.

Configure the expansion in an XML file. This file is saved to the "_custom_data" subfolder on the WebNavigator Server. You can give the file any name you choose, since all files with "XML" extension are processed in this folder.

Example

The following example adds the "My Private Menu" submenu to the "Server" menu. The submenu consists of three entries, namely "My Link", "Relative Link" and "Run Script".

Code	Description
xml version="1.0"?	Version information
<menu hook-on="server"></menu>	The "menu hook-on" command is used to reference the name "server" that defines the "Current Server" menu on the Web Navigation interface.
<caption><ing>My Private Menu</ing></caption>	Defines an empty entry.
<command/> <caption>My Link</caption> <open-url target="right">http://www.msdn.com</open-url> 	Defines the "My Link" entry with a direct link.

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4.4 Operating the WinCC project

Code	Description
<command/> <caption>Relative Link</caption> <open-url target="right">project.asp</open-url> 	Defines the "Relative Link" entry with a relative link.
<command/> <caption>Run Script</caption> <run-script>alert("Hallo !")</run-script> 	Defines the "Run Script" entry that is used to start scripts.
	End of menu.

4.4.3.4 Diagnosis of the Connections with "Status.html"

Introduction

The "Status.html" page is used to diagnose the WinCC WebNavigator Server and its connected active clients.

Overview

Call the diagnostics page as follows:

- Type in the address "http://<servername>/status.html" in Internet Explorer if WebNavigator is configured as the default web page.
- Type in the address "http://<servername>/<foldername>/status.html" in Internet Explorer if WebNavigator is configured as virtual web page.
- Select the "Status" command from the "Diagnostics" menu if the Navigation interface is available via "MainControl.asp".

Access to this page is restricted to the users created in the User Administrator.

Server V	/ersion	K07.00.0	2.00_01.37.00.0	3	License Co	unt	3
Server F	iledate	Aug 18 2	010		Runtime M	ode	Activated
		c	onnection Summ	nary			
Last Up	date		22.10.2	2010 09:	11:29.796		
Connect	ted Web Naviga	tor Client	ts 1				
	ted Diagnose Cl		2				
Connect	ted DataMonito	r Clients	1				
Logged	on Users: 4						
			AD0:	54599P	C		
Login V	WebCenterUser	Time	22.10.2010 08:47:48.125	Туре	Diagnose [Gadget]	PID	6584
			AD0:	54599P	C		
Login (GadgetUser	Time	22.10.2010 08:47:48.125	Туре	Diagnose [Gadget]	PID	6584
			AD0	65507P	C		
Login v	winces	Time	22.10.2010 09:10:54.484	Туре	Standard	PID	6584
			AD0:	54599P(C		
Login I	OMAdmin	Time	22.10.2010 09:11:29.781	Туре	DataMonitor [ViewOnly]	PID	6584

Structure of diagnostics information related to the WebNavigator Server

Field	Description
Server version	WebNavigator Server version
Server file date	Date of the server version
License count	Number of licenses on the WebNavigator Server
Runtime mode	Status of WinCC Runtime
Last update	Date and time of the last display refresh
Connected WebNavigator Clients	Number of connected WebNavigator Clients
Connected Diagnostics Clients	Number of connected Diagnostics Clients
Connected DataMonitor Clients	Number of connected DataMonitor Clients

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4.4 Operating the WinCC project

Structure of diagnostics information related to the connected clients

The diagnostics information starts with the name of the relevant client.

Field	Description
Logged on users	Number of connected clients
Login	Login name of the current user
Time	Login time of the current user or time of the most recent automatic connection setup.
Туре	Type of client, e.g. standard, DataMonitor
PID	Process ID of the instance of WebNavigatorRT.exe on the web server communicating with the client.

Note

You can save the status information that is displayed. To do this, use the "Save as" function in Internet Explorer and select the "(*.txt)" file type. If "(*.htm, *.html)" are selected, the contents displayed are not saved.

4.4.4 Operating the WinCC project using WinCCViewerRT

4.4.4.1 Configuring WinCCViewerRT

Introduction

WinCCViewerRT is a program for visualizing WinCC projects. You can configure WinCCViewerRT for operation with the WebNavigator Server and Graphics Runtime.

Requirement

- On the server
 - The WebNavigator Server is installed.
 - A WinCC/WebNavigator license is installed.
 - The WinCC project is in Runtime.
 - The WinCC pictures are configured and published for web access.
- On the client
 - The WebNavigator Client is installed.

Procedure

1. Double-click the link "WinCCViewerRT.exe" in the "Webnavigator\Client\bin" installation folder.

The configuration dialog opens if you reconfigure WinCCViewerRT. WinCCViewerRT opens if WinCCViewerRT has already been set up. Use the <Ctrl+Alt+P> key combination to open the configuration dialog of WinCCViewerRT.

WinCCVie	werRT		X
General	Parameters	s Graphics Runtime Runtime	
Confi	guration file		
C:\[Documents a	and Settings\Ka\WinCCViewerRT.xml	
Serve	er		
Address		http://servername	
		Use project settings. (This requires a server version >= 7.0.2)	
Crede	entials		
User	name	winced	
Pass	word	*****	
		OK Cancel	

- 2. Enter the login data in the "General" tab:
 - Server address: http://<server name> or http://<IP address>
 - User name and password, if you want to specify a default user for the login dialog.
 - The user settings you configured in the User Administrator will be activated if you enable the "Apply project settings" option.
- 3. Specify the Runtime language in the "Parameters" tab.

If necessary, disable any key combinations with which the user switches to other programs. If required, you can modify the preset <Ctrl+Alt+P> key combination that is used to open the WinCCViewerRT configuration dialog.

Define a key combination with which a user can log off and a new user can log on. The key combination can only be used if no default user has been set in the "General" tab.

- 4. Specify the WinCC Runtime properties in the "Graphics Runtime" tab:
 - Start picture
 - Configuration file for user-defined menus and toolbars
 - Window attributes
 - Impermissible user actions

WinCCViewerRT		×
General Parameters	Graphics Runtime Runtime	
Start Picture	menu and toolbars	
Window Attributes - Title Border Maximize FullScreen	Turn off	
	OK Canc	el

- 5. Specify additional user actions in the "Runtime" tab:
 - Activating the screen keyboard

- <Ctrl+Alt+Del> key combination to allow switching to the Task Manager or operating system via the screen keyboard.

- Auto-logoff settings

WinCCViewerRT		×
General Parameters Graphics Runt Monitor keyboard Enable monitor keyboard Allow Ctrl+Alt+Del	ime Runtime	
Automatic logout after 0 Minutes	○ absolute time ⓒ idle time	
	ОК	Cancel

6. Close the dialog with the "OK" button.

Result

WinCCViewerRT is configured. The connection to the WebNavigator Server is set up after you close the dialog. The settings are saved to the "WinCCViewerRT.xml" configuration file. The configuration file settings are used at the next start of WinCCViewerRT. WinCCViewerRT applies the user interface language from WinCC.

The configuration file is saved in the folder "Documents and Settings\<User>\Application Data \Siemens\SIMATIC.WinCC\WebNavigator\Client". You can rename the file, for example, to "User1.xml". You can also start WinCCViewerRT by means of the command line with the user-specific configuration file, e.g. "WinCCViewerRT.exe User1.xml". This procedure allows for different configurations, depending on the logged-on user.

The WinCCViewerRT configuration dialog opens at the start if you rename or delete "WinCCViewerRT.xml". Reconfigure WinCCViewerRT or select a different configuration file.

Note

WinCCViewerRT can only be closed by means of script function if you disable a key shortcut or hide the "Close" button. Function in the C-Script: DeactivateRTProject; function in the VBScript: HMIRuntime.Stop.

4.4.4.2 Operating the WinCC project

Requirement

- On the server
 - The WebNavigator Server is installed.
 - The "WinCC WebNavigator" license is installed.
 - The WinCC project is in Runtime.
 - The WinCC pictures are configured and published for web access.
 - The user is created in WinCC.
- On the client
 - WinCCViewerRT is configured.

Procedure

- 1. Start "WinCCViewerRT" in the Windows Start menu with "Programs > Siemens Automation > Options and Tools > HMI Tools".
- 2. Log on to the WebNavigator Server:
 - A login dialog is not displayed if the user name and password is preset in the "WinCCViewerRT" configuration dialog. You are logged on automatically with the stored login data.
 - The login dialog is displayed if a user name and password is not set in the "WinCCViewerRT" configuration dialog. Enter the user name and password of the WinCC user. Passwords are case-sensitive. Click "OK".
- To change the user, use the specified key combination for "WinCCViewerRT" login/logoff. The previous user is logged off. Enter the user name and password of the new WinCC user in the login dialog. Passwords are case-sensitive. Click "OK". The key combination can only be used if no default user has been set.

Result

WinCCViewerRT automatically connects to the activated WinCC project. The start picture that is configured for the user is displayed.

The user may operate or monitor the project, depending on authorizations. Users assigned system authorization No. 1002 "Web access - monitoring only" in the User Administration are only allowed to monitor the WinCC project.

The "View Only Cursor" indicates that process-related operations are not possible.



Certain operations, such as opening the properties dialog of a WinCC OnlineTrendControl, are still possible.

You can also use your own cursor icon as a "View Only Cursor", if required. For more information, refer to "Configuring Runtime settings (Page 95)".

The <F5> key triggers a reselection of WinCCViewerRT.

4.4.5 Using the "Hardcopy" function

Introduction

On the WebNavigator Client, the current view can be output to the default printer.

You can generate a screenshot using a configurable key combination or a script. You can enter the definition of the key combination or the screen area to be printed via the command line, for example.

Starting the hardcopy application

Start the "PrtScr.exe" application on the WebNavigator Client, for example, by means of the command line input or a user-defined function. The application is stored in the "...\Common Files\Siemens\BIN" folder.

The parameters are transferred once only at the start. Separate the parameters with a space. Observe case sensitivity.

Close the application before you edit the parameters. Edit the parameters and restart the application.

The following parameters specify the procedure for printing a screenshot:

Parameters	Function	
Without parameters	Not allowed on the WebNavigator Client. Use "-infinit" as a substitute. Example: PrtScr.exe –infinit –hotkey=" <alt>+p"</alt>	
-end	Terminates an active instance of PrtScr.exe.	
-hardcopy	Starts PrtScr.exe. Generates a screenshot of the current view. The hardcopy function then waits for the key combination for output to the printer. Use this on the WebNavigator Client only in combination with the "infinit" and "hotkey" parameters.	
-nomcp	Starts PrtScr.exe. Generates a screenshot and prints the current view. PrtScr.exe is then closed.	
-C= left;top;right;bottom	Starts PrtScr.exe. Generates a screenshot of the screen section that is specified in pixels and prints the current view. PrtScr.exe is then closed. "-C=" is always followed by a space. Example: PrtScr.exe -C= 50;50;100;100	
-1	Prints in landscape format. You can add the parameter to any parameter combination.	

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4.4 Operating the WinCC project

Parameters	Function
-infinit	Serves as parameter for starting PrtScr.exe on a system without WinCC. Always use the parameter in combination with "hotkey".
-hotkey="x"	Specifies the key combination that starts output to the printer.
	The following characters and combinations are allowed: <alt>, <shift>,<ctrl> + {0-9, A-Z, 0xXX}</ctrl></shift></alt>
	Write the parameters in uppercase letters. Combinations of the <alt>, <shift>, and <ctrl> keys are allowed but not mandatory. You can specify the "Virtual Key Code" with "XX" using the hexadecimal input "0xXX". For more information about "Virtual Key Codes", refer to the MSDN Library.</ctrl></shift></alt>
	Example: "CTRL" and P key combination: -hotkey=" <ctrl>+P" Print button ("Print-Screen"): -hotkey="0x2C" Key combination "ALT" and "Print-Screen": -hotkey="<alt>+0x2C"</alt></ctrl>

Examples of parameter combinations

Starting the hardcopy function by means of a key combination	
PrtScr.exe –infinit –hotkey=" <alt>+p" Enter the following string in the command line: "C:\Program Files\Common Files\Siemens\BIN\PrtScr.exe" – infinit –hotkey="<alt>+p"</alt></alt>	Starts PrtScr.exe and waits for input of the " <alt>+p" key combination. The current screen view is printed as screenshot when you hit the key combination.</alt>
PrtScr.exe –infinit –hotkey=" <alt>+p" –C= 10;10;100;100</alt>	Starts PrtScr.exe and waits for input of the " <alt>+p" key combination. Only the screen section that is defined in pixels will be printed as screenshot when you hit the key combination.</alt>

Starting the hardcopy function by means of script	
PrtScr.exe –nomcp	Starts PrtScr.exe. Generates a screenshot and prints the current view. PrtScr.exe is then closed.
PrtScr.exe –C= 10;10;100;100	Starts PrtScr.exe. Generates a screenshot of the section that is specified in pixels and prints the current view. PrtScr.exe is then closed.

4.5 Installation of the WinCC Plug-In Builder

4.5.1 Overview of the WinCC Plug-In Builder

Introduction

Use the WinCC Plug-In Builder to create a setup program for the download of additional components to the WebNavigator Clients, e.g. ActiveX Controls you created. Users can download the plug-ins by using the Web Navigation interface, for example.

Using the Plug-In Builder does not require any knowledge of setup technology or other development programs. The Plug-In Setup that is created is available in a self-extracting "EXE" file. The file is made available in a folder on the WebNavigator Server for download to the clients.

A WebNavigator plug-in is automatically integrated into an installed WebNavigator Client and is also uninstalled along with this client.

The setup programs created with the Plug-In Builder can only be used in the WebNavigator environment.

Installing the WinCC Plug-In Builder

- Install the WinCC Plug-In Builder from the WinCC DVD. Setup will start automatically after a few seconds, provided that autorun functionality is not disabled. Run Setup manually when installing from a network drive or if autorun is disabled. For manual setup, go to the Windows Start menu, select "Settings > Control Panel > Software" and click on the "Add new programs" icon. Then select the desired installation medium.
- 2. Select the "User" characteristic in the "Installation scope" dialog.
- 3. Select installation from WinCC/WebNavigator Plug-In Builder. The Setup program starts.
- 4. Click "Next" and follow the instructions on the screen. The WinCC/WebNavigator Plug-In Builder is installed.

User interface of WinCC Plug-In Builder

The Plug-In Builder provides an overview of the available plug-in projects and their status.

ug-In Builder			
ije Edi <u>t</u> Hel <u>p</u>			
) 😅 🗶 🔁 🔁 🕞 🤶 🤋 🛼			
	WinCC Web N	lavigator Client Plug	g-In Builder
Plug	-In Projecte	_ Installed We	b Navigator Software:
Vincc Plug-In Project		SIMATIC WinCC/WebNavigator Client V7.2 SIMATIC WinCC/DataMonitor Client V7.2 SIMATIC WinCC/WebNavigator Server V7.2 SIMATIC WinCC/DataMonitor Server V7.2	
-		Active Plug-I	
		Project Name:	Template
		Build Status:	Build done
Plug-In Info:			
This is a template plugin project and	cannot be modified.		
-			

Toolbars provide the functions for creating and testing plug-ins. The arrangement of the toolbars from left to right corresponds to the steps of creating a new plug-in.

The "Installed Web Navigator Software" field displays the WebNavigator components that are installed on the computer. Various functions of the Plug-In Builder are only available for certain WebNavigator components.

4.5.2 How to make plug-ins available for download

Introduction

After startup, the Plug-In Builder checks the Builder version of the plug-ins already created on the computer. The installation of a new version of Plug-In Builder renders any older plug-ins void. You have to re-generate these plug-ins.

All plug-ins that are void or not yet generated are displayed in a list at the startup of Plug-In Builder.

You can enter the commands in the Plug-In Builder via the menu, the toolbar or the keyboard.

Requirement

- The "Test Plug-In" function requires the WebNavigator Client.
- The "Export Plug-In" function requires the WebNavigator Server.

Creating a Plug-In

- 1. Start Plug-In Builder in the Windows Start menu by selecting "SIMATIC>WinCC>Web Navigator>Web Navigator Plug-In Builder". Click "Next".
- Click the "New Plug-In" icon on the toolbar. Enter the plug-in version data in the "New Plug-In" dialog. Do not use umlauts (ä, ü etc.). Click "OK". On successful creation, the project is displayed in the "Plug-In Projects" field. Select the "Template" project from the "Plug-In Projects" window if you want to derive the information from a template. Click the "Modify Plug-In" icon on the toolbar. The template is displayed but cannot be edited.
- 3. Click the "Files" icon on the toolbar. The "Files" dialog opens in which to select the files integrated in the plug-in.

In the area "Source Path", select the drive and the path in which the desired files are located. You can copy the files with drag-and-drop to the "Common Files" and "Common Files registered" windows. Copy the self-registering files to the "Common Files registered" window and any other files to the "Common Files" window.

Remove a file by dragging it to the recycle bin on the bottom edge of the dialog. Click the "OK" button.

Note

The "Common Files registered" window can only store self-registering files (*.EXE, *.OCX, *.DLL). Other files are rejected by the Plug-In Builder. It is not checked whether or not the files saved are self-registering.

Under certain circumstances, the integrated files may cause registration problems during the subsequent plug-in installation, because the file executes the registration function independently. The user is responsible for the correct registration.

 Select the newly created plug-in project from the project list. Click the "Build Plug-In" icon on the toolbar.

Click "Start" to begin the file generation.

On successful completion of the generation, click "Logfile" to view the associated log file. Close the dialog with "OK". Successful completion of the generation is indicated by the "Build done" entry in the "Build Status" field.

- Click the "Test Plug-In" icon on the toolbar to test the plug-in. Click "Install" to start the test installation. Close the dialog with "OK". Completion of the test is indicated by a "Setup completed" entry in the "Status" field.
- 6. Click the "Publish Plug-In" icon on the toolbar to publish the plug-in to the WebNavigator Server.

If WebNavigator Server and Plug-In Builder are located on the same computer, you can export the plug-in directly to the WebNavigator Server. Transfer the plug-in manually to the WebNavigator Server if Plug-In Builder is hosted on a different computer. Start publishing with the "Publish" button. The plug-in you created is saved to the installation folder on the WebNavigator Server under:

"WebNavigator/Server/Web/Install/Custom". Close the dialog with "OK".

7. Close the Plug-In Builder by clicking the "Exit" icon on the toolbar.

Installing plug-ins on the WebNavigator Client

You need Windows administrator rights to install plug-ins created with Plug-In Builder on the WebNavigator Client. The Plug-In Builder used and the WebNavigator Client must be of the same version.

Install the plug-in using the Web Navigation interface. Select the "Load Plug-Ins" command from the "Download area" menu to select the desired plug-in.

4.6 Configuring terminal services for WebNavigator

4.6 Configuring terminal services for WebNavigator

4.6.1 Communication Using Terminal Services

Introduction

In order to use the "Download area" in WebNavigator Client as Terminal Client, do not use a proxy server between the Terminal Server and WebNavigator Server.

If the Terminal Server and WebNavigator Server are not installed on the same computer, the WebNavigator Client cannot use the terminal services to access the WebNavigator Server. You have the following options for countering this problem:

- A minimum installation of WinCC without licenses is installed on the Terminal Server.
- After installation of the WebNavigator Client, the "CCEClient_service.vbs" file is executed once on the Terminal Server. The file is available in the "Updates\WebNavigator" folder on your WinCC DVD. You must be logged on with Windows Administrator rights to execute the VBS file.

Access from WebNavigator Clients and WinCC Clients to the WebNavigator Server

When a WebNavigator Client via the terminal service and WinCC Clients access the WebNavigator Server, the WebNavigator Client operating as Terminal Client must not open a Windows Desktop in the session.

You have the following options of preventing the WebNavigator Client from opening the Windows Desktop at the beginning of a session:

- Enter all users directly in the Terminal Service configuration.
- In the Computer Management, enter Internet Explorer as start program for individual users.

4.6.2 Terminal Services Setup

Introduction

The following chapters show you how to set up the terminal services with regard to the WebNavigator Client.

Requirement

- The WinCC basic system and WebNavigator Server do not run under the terminal services.
- The WinCC basic system and WebNavigator Server must be installed on the server before you activate the terminal services for the following configuration steps.

4.6 Configuring terminal services for WebNavigator

Configuration steps

- 1. Activate the terminal services on the Terminal Server
- 2. Install the application on the Terminal Server, e.g. the WebNavigator Client. Information pertaining to the installation can be found in the corresponding documentation and the Online Help.
- 3. On the Terminal Server, create the users for access via the terminal services.
- 4. Run the application on the Terminal Client.

For more information, refer to "Terminal services" in the Microsoft Online Help.

4.6.3 Activating terminal services on the Windows Server

Introduction

Activate the Terminal Services on the server before you install the actual applications, e.g. WebNavigator Client.

Install the application on the server using the "Add or Remove Programs" dialog in the Control Panel. This makes it possible for all users to configure the applications. If the application is installed in any other way, only the user who actually installed the application can use it.

Requirement

- Windows administrator rights
- Windows server

Procedure

- 1. Open the Control Panel and double-click "Software".
- 2. Click "Add/Remove Windows Components" in the "Software" dialog. The "Windows Components Wizard" opens.
- 3. Activate "Terminal Server" and "Terminal Server Licensing".
- 4. Click "Next". Follow the instructions.

4.6.4 Creating users for access to the Terminal Server

Requirement

- Terminal Server is installed.
- A Windows user is created.

4.6 Configuring terminal services for WebNavigator

Procedure

- 1. Open Computer Management via the Control Panel. Select "Local Users and Groups".
- 2. Double-click the "Users" folder.
- 3. Double-click the user to be granted access to the Terminal Service.
- 4. Click on the "Membership" tab. Click "Add". The "Select Group" dialog opens.
- 5. Add the "Remote Desktop Users" group. Click "OK" to close all open dialogs.
- 6. Check the membership of the users in other groups. If required, add the user to other groups in order to assign the necessary user authorizations.
- 7. Close Computer Management.

4.6.5 Starting the Terminal Server on the Terminal Client

Requirement

- The Terminal Service is started on the Windows Server
- On the Terminal Server, you created a user for access.

Procedure

- On the Terminal Client, select "Programs > Accessories > Communication > Remote Desktop Connection" in the Windows start menu. The "Remote Desktop Connection" dialog opens.
- 2. Enter the name of the Terminal Server.
- 3. Click "Connect". Log on with the user that you created for access to the Terminal Server.

Result

The connection is established. The desktop of the Terminal Server is displayed. Start an application on the Terminal Server, for example, WebNavigator Client via Internet Explorer.

4.7 Appendix

4.7.1 Troubleshooting

Communication between the WebNavigator Server and WebNavigator Client is down

If a provider (participating proxy, Firewall) has set Content Filtering for an Internet connection, WebNavigator communication is no longer possible. With content filtering, only certain contents of HTML pages are permitted. Communication is routed via a defined port to an IP address, e.g. the address of the WinCC Server.

Disable Smart Filtering of the IP address on the WebNavigator Server. Because there is no HTML content on the WinCC server, filtering is not particularly useful in any case.

The data is transferred in encrypted form if you are using SSL technology. in this case, Smart Filtering of contents is not possible.

Connection abort

In the Internet environment, connection failures, delays, and fluctuation in communication can occur.

If communication between the WebNavigator Client and WebNavigator Server goes down, a message is output to the user on the WebNavigator Client. The WebNavigator Client then attempts to perform an automatic connection setup in order to restore the connection.

Set the waiting times between connection attempts with the "Web Configurator". If the value "0" is set, the WebNavigator Client does not attempt to reconnect automatically. In this case, a message is output on the WebNavigator Client querying whether you wish to re-establish the connection.

WinCCViewer			
8	11/7/2005 11:22:22 AM The System reported the following Error: No Connection to server LastError = $0x0$ If this problem persists, please consult your system administrator ! Do you wish to refresh the connection and reload the picture ? Image: Month State		

Confirm this prompt to re-establish the connection.

No pictures are displayed.

Check that the correct web page is activated on the WebNavigator Server.

Multiple tab browsing

You need the "ControlHost.exe" process to enable multiple tab browsing in Internet Explorer.

When you append "?inplacecontrol=no" to the server name in the address bar, the WebNavigator Client is no longer hosted in the ControlHost, but instead in Internet Explorer. This means that multiple tab browsing is no longer possible and that the "Multiple viewer instance disabled" message is output.

Demo mode

If a required license is missing on the WebNavigator Server, a message is displayed informing you of this and the WebNavigator Client runs in demo mode. In this mode, the WebNavigator Client is fully operational for a period of 30 days. After 30 days, the error message "Still no License on Server, Demo mode expired" is shown. The WebNavigator Client can no longer connect to the WebNavigator Server.

Security levels as of Internet Explorer 8

Protected mode is activated by default for Internet Explorer 8 in Windows 7.

While protective mode is activated, you cannot connect to the WebNavigator Server. The error message "Low integrity level is not supported:. Please deactivate protected mode" is displayed.

Disable the mode in "Tools > Internet Options > Security".

No connection to WebNavigator Server possible.

The following section lists several error messages and reasons that prevent the WebNavigator Client from connecting to the WebNavigator Server:

- "The WinCC Server is currently not active": A server is not started in Runtime.
- "Unknown user name or password": This error can only occur in WinCCViewerRT. The user or password was stored or entered incorrectly. Internet Explorer allows you to enter the user name and password three times. The "HTTP Error 401.1" error page is then displayed.

Note

Passwords are case-sensitive.

- "Maximum count of users reached": The WinCC/WebNavigator license was exceeded on the WebNavigator Server.
 - "Server workload exceeds limit": The maximum number of simultaneous connections was exceeded. You make the setting in "WebNavigator > Web settings > Runtime" in WinCC Explorer. The number of clients connected to a server is shown on the page "http://<servername>/status.html". The number of simultaneous connections could exceed the number of connected clients if, for example, several tabs are opened in the browser window.

- "Maximum count of tabs reached": The maximum number of tabs per browser was exceeded. You make the setting in "WebNavigator > Web settings > Runtime" in WinCC Explorer.
- "No connection to server": The server cannot be reached. The precise cause of error is unknown. For diagnostics information, refer to the page "http://<servername>/status.html".
- "Failed to load http://<servername>/Pictures/For_example.PD_": Access to the configured start picture has failed. Check the authorizations on the WebNavigator Server. The published picture may no longer be available on the server.

Wrong start picture

You have edited a new picture in the Graphics Designer.

- 1. Start the Web View Publisher in order to publish the new picture.
- 2. Select "Tools > Internet Options" in Internet Explorer to delete the temporary Internet files.
- 3. You can assign an individual start picture to each user in the User Administration.

See also

Check the activated web page (Page 114)

4.7.2 Functions

4.7.2.1 Supported functions

Introduction

The following list shows the functions supported by WebNavigator. Functions not included in this list are not automatically enabled for the WebNavigator.

Functions

WaitForDocumentReady		
Get_Focus	GetTagChar	
GetAssignments	GetTagCharState	
GetBasePicture	GetTagCharStateWait	
GetFlashPicture	GetTagCharWait	
GetFontName	GetTagMultiStateWait	
GetInputValueChar	GetTagMultiWait	
GetLastChange	GetText	

GetOutputFormat	SetTagMultiWait
GetOutputValueChar	SetTagMultiStateWait
GetPictureName	SetTagRaw
GetPropChar	SetTagRawState
GetServerName	SetTagRawStateWait

AXC_OnBtnArcLong	AXC_OnBtnMsgNext
AXC_OnBtnArcShort	AXC_OnBtnMsgPrev
AXC_OnBtnComment	AXC_OnBtnMsgWin
AXC_OnBtnEmergAckn	AXC_OnBtnScroll
AXC_OnBtnInfo	AXC_OnBtnSelect
AXC_OnBtnLock	AXC_OnBtnSinglAckn
AXC_OnBtnLoop	AXC_OnBtnVisibleAckn
AXC_OnBtnMsgFirst	AXC_SetFilter
AXC_OnBtnMsgLast	

OnBtnArcLong	OnBtnMsgLast
OnBtnArcShort	OnBtnMsgNext
OnBtnComment	OnBtnMsgPrev
OnBtnEmergAckn	OnBtnMsgWin
OnBtnHornAckn	OnBtnPrint
OnBtnInfo	OnBtnScroll
OnBtnLanguage	OnBtnSelect
OnBtnLock	OnBtnSinglAckn
OnBtnLoop	OnBtnVisibleAckn
OnBtnMsgFirst	

TLGGetTemplateParameter	TIgTableWindowPressPrevButton
TLGPressToolbarButton	TIgTableWindowPressPrevItemButton
TlgGetColumnPosition	TIgTableWindowPressStartStopButton
TlgGetNumberOfColumns	TIgTrendWindowPressFirstButton
TlgGetNumberOfRows	TlgTrendWindowPressLastButton
TlgGetNumberOfTrends	TIgTrendWindowPressLinealButton
TIgGetRowPosition	TIgTrendWindowPressNextButton
TlgGetRulerArchivNameTrend	TIgTrendWindowPressNextItemButton
TlgGetRulerTimeTrend	TIgTrendWindowPressOneToOneButton
TlgGetRulerValueTrend	TIgTrendWindowPressOpenArchiveVariableSelectionDlgBut
	ton
TlgGetRulerVariableNameTrend	TIgTrendWindowPressOpenDIgButton

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TlgGetTextAtPos	TlgTrendWindowPressOpenItemSelectDlgButton
TlgTableWindowPressFirstButton	TlgTrendWindowPressOpenTimeSelectDlgButton
TlgTableWindowPressLastButton	TlgTrendWindowPressPrevButton
TlgTableWindowPressNextButton	TlgTrendWindowPressPrevItemButton
TlgTableWindowPressNextItemButton	TlgTrendWindowPressStartStopButton
TlgTableWindowPressOpenArchiveVariableSelectionDlgBut ton	TlgTrendWindowPressZoomInButton
TlgTableWindowPressOpenItemSelectDlgButton	TlgTrendWindowPressZoomOutButton
TlgTableWindowPressOpenTimeSelectDlgButton	

GetLanguage	GetParentPicture
SetLanguage	GetParentPictureWindow
GetLink	GetServerTagPrefix
SetLink	OpenPicture
GetLinkedVariable	SetPictureDeactivated
GetLocalPicture	SetPictureDown
SetMultiLink	SetPictureUp

_makepath	fscanf	setvbuf
_splitpath	fsetpos	sprintf
abs	ftell	srand
abort	fwrite	sscanf
asctime	getc	strcat
atexit	getchar	strcmp
atof	getenv	strcpy
atoi	gets	strchr
atol	gmtime	strcspn
bsearch	labs	strerror
calloc	ldiv	strftime
clearerr	localtime	strlen
clock	malloc	strncat
ctime	memchr	strncmp
difftime	тетстр	strncpy
div	тетсру	strpbrk
exit	memmove	strrchr
fclose	memset	strspn
feof	mktime	strstr
ferror	perror	strtod
fflush	printf	strtok
fgetc	putc	strtol
fgetpos	putchar	strtoul

fgets	puts	SysMalloc	
fopen	qsort	system	
fprintf	rand	time	
fputc	realloc	ungetc	
fputs	remove	vfprintf	
freopen	rename	vprintf	
fread	rewind	vsprintf	
free	scanf		
fseek	setbuf		

Check Prog	gramExecute
------------	-------------

GetActualPointLeft	GetExponent	GetPicDeactTransparent
GetActualPointTop	GetExtendedOperation	GetPicDeactUseTransColor
GetAdaptBorder	GetFillColor	GetPicDownReferenced
GetAdaptPicture	GetFilling	GetPicDownTransparent
GetAdaptSize	GetFillingIndex	GetPicDownUseTransColor
GetAlarmHigh	GetFillStyle	GetPicReferenced
GetAlarmLow	GetFillStyle2	GetPicTransColor
GetAlignment	GetFlashBackColor	GetPicUpReferenced
GetAlignmentLeft	GetFlashBorderColor	GetPicUpTransparent
GetAlignmentTop	GetFlashFlashPicture	GetPicUpUseTransColor
GetAssumeOnExit	GetFlashForeColor	GetPicUseTransColor
GetAssumeOnFull	GetFlashPicReferenced	GetPictureDeactivated
GetAverage	GetFlashPicTransColor	GetPictureDown
GetAxisSection	GetFlashPicUseTransColor	GetPictureUp
GetBackBorderWidth	GetFlashRateBackColor	GetPointCount
GetBackColor	GetFlashRateBorderColor	GetPosition
GetBackColor2	GetFlashRateFlashPic	GetPressed
GetBackColor3	GetFlashRateForeColor	GetProcess
GetBackColorBottom	GetFontBold	GetPropBOOL
GetBackColorTop	GetFontItalic	GetPropDouble
GetBackFlashColorOff	GetFontSize	GetPropLong
GetBackFlashColorOn	GetFontUnderline	GetPropWord
GetBasePicReferenced	GetForeColor	GetRadius
GetBasePicTransColor	GetForeFlashColorOff	GetRadiusHeight
GetBasePicUseTransColor	GetForeFlashColorOn	GetRadiusWidth
GetBitNumber	GetGrid	GetRangeMax
GetBorderBackColor	GetGridColor	GetRangeMin
GetBorderColor	GetGridHeight	GetReferenceRotationLeft
GetBorderColorBottom	GetGridWidth	GetReferenceRotationTop

GetBorderColorTop	GetHeight	GetRightComma
GetBorderEndStyle	GetHiddenInput	GetRotationAngle
GetBorderFlashColorOff	GetHotkey	GetRoundCornerHeight
GetBorderFlashColorOn	GetHysteresis	GetRoundCornerWidth
GetBorderStyle	GetHysteresisRange	GetScaleColor
GetBorderWidth	GetIndex	GetScaleTicks
GetBoxAlignment	GetInputValueDouble	GetScaling
GetBoxCount	GetItemBorderBackColor	GetScalingType
GetBoxType	GetItemBorderColor	GetScrollBars
GetButtonColor	GetItemBorderStyle	GetSelBGColor
GetCaption	GetItemBorderWidth	GetSelTextColor
GetCheckAlarmHigh	GetLanguageSwitch	GetSizeable
GetCheckAlarmLow	GetLayer	GetSmallChange
GetCheckLimitHigh4	GetLeft	GetStartAngle
GetCheckLimitHigh5	GetLeftComma	GetToggle
GetCheckLimitLow4	GetLimitHigh4	GetToleranceHigh
GetCheckLimitLow5	GetLimitHigh5	GetToleranceLow
GetCheckToleranceHigh	GetLimitLow4	GetTop
GetCheckToleranceLow	GetLimitLow5	GetTrend
GetCheckWarningHigh	GetLimitMax	GetTrendColor
GetCheckWarningLow	GetLimitMin	GetTypeAlarmHigh
GetClearOnError	GetListType	GetTypeAlarmLow
GetClearOnNew	GetLongStrokesBold	GetTypeLimitHigh4
GetCloseButton	GetLongStrokesOnly	GetTypeLimitHigh5
GetColorAlarmHigh	GetLongStrokesSize	GetTypeLimitLow4
GetColorAlarmLow	GetLongStrokesTextEach	GetTypeLimitLow5
GetColorBottom	GetMarker	GetTypeToleranceHigh
GetColorChangeType	GetMax	GetTypeToleranceLow
GetColorLimitHigh4	GetMaximizeButton	GetTypeWarningHigh
GetColorLimitHigh5	GetMin	GetTypeWarningLow
GetColorLimitLow4	GetMoveable	GetUnselBGColor
GetColorLimitLow5	GetNumberLines	GetUnselTextColor
GetColorToleranceHigh	GetOffsetLeft	GetUpdateCycle
GetColorToleranceLow	GetOffsetTop	GetVisible
GetColorTop	GetOnTop	GetWarningHigh
GetColorWarningHigh	GetOperation	GetWarningLow
GetColorWarningLow	GetOperationMessage	GetWindowBorder
GetCursorControl	GetOperationReport	GetWindowsStyle
GetDataFormat	GetOrientation	GetWidth
GetDirection	GetOutputValueDouble	GetZeroPoint
GetEditAtOnce	GetPasswordLevel	GetZeroPointValue
GetEndAngle	GetPicDeactReferenced	GetZoom

Set Focus	SetEditAtOnce	SetPicDownUseTransColor
SetActualPointLeft	SetEndAngle	SetPicTransColor
SetActualPointTop	SetExponent	SetPicUpTransparent
SetAlarmHigh	SetExtendedOperation	SetPicUpUseTransColor
SetAlarmLow	SetFillColor	SetPicUseTransColor
SetAlignment	SetFilling	SetPictureName
SetAlignmentLeft	SetFillingIndex	SetPointCount
SetAlignmentTop	SetFillStyle	SetPosition
SetAssumeOnExit	SetFillStyle2	SetPressed
SetAssumeOnFull	SetFlashBackColor	SetProcess
SetAverage	SetFlashBorderColor	SetPropBOOL
SetAxisSection	SetFlashFlashPicture	SetPropChar
SetBackBorderWidth	SetFlashForeColor	SetPropDouble
SetBackColor	SetFlashPicTransColor	SetPropLong
SetBackColor2	SetFlashPicUseTransColor	SetPropWord
SetBackColor3	SetFlashRateBackColor	SetRadius
SetBackColorBottom	SetFlashRateBorderColor	SetRadiusHeight
SetBackColorTop	SetFlashRateFlashPic	SetRadiusWidth
SetBackFlashColorOff	SetFlashRateForeColor	SetRangeMax
SetBackFlashColorOn	SetFontBold	SetRangeMin
SetBasePicTransColor	SetFontItalic	SetRightComma
SetBasePicUseTransColor	SetFontName	SetReferenceRotationLeft
SetBitNumber	SetFontSize	SetReferenceRotationTop
SetBorderBackColor	SetFontUnderline	SetRotationAngle
SetBorderColor	SetForeColor	SetRoundCornerHeight
SetBorderColorBottom	SetForeFlashColorOff	SetRoundCornerWidth
SetBorderColorTop	SetForeFlashColorOn	SetScaleColor
SetBorderEndStyle	SetHeight	SetScaleTicks
SetBorderFlashColorOff	SetHiddenInput	SetScaling
SetBorderFlashColorOn	SetHysteresis	SetScalingType
SetBorderStyle	SetHysteresisRange	SetSelBGColor
SetBorderWidth	SetIndex	SetSelTextColor
SetBoxAlignment	SetItemBorderBackColor	SetSmallChange
SetBoxCount	SettemBorderColor	SetStartAngle
SetBoxType	SetItemBorderStyle	SetText
SetButtonColor	SettlemBorderWidth	SetTop
SetCheckAlarmHigh	SetLeft	SetTrend
SetCheckAlarmLow	SetLeftComma	SetTrendColor
SetCheckLimitHigh4	SetLimitHigh4	SetToleranceHigh
SetCheckLimitHigh5	SetLimitHigh5	SetToleranceLow
SetCheckLimitLow4	SetLimitLow4	SetToggle
SetCheckLimitLow5	SetLimitLow5	SetTypeAlarmHigh
	SetLimitDows	SetTypeAlarmLow
SetCheckToleranceHigh		
SetCheckToleranceLow	SetLimitMin	SetTypeLimitHigh4

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SetCheckWarningHigh	SetLongStrokesBold	SetTypeLimitHigh5
SetCheckWarningLow	SetLongStrokesOnly	SetTypeLimitLow4
SetClearOnError	SetLongStrokesSize	SetTypeLimitLow5
SetClearOnNew	SetMarker	SetTypeToleranceHigh
SetColorAlarmHigh	SetMax	SetTypeToleranceLow
SetColorAlarmLow	SetMin	SetTypeWarningHigh
SetColorBottom	SetNumberLines	SetTypeWarningLow
SetColorChangeType	SetOffsetLeft	SetUnselBGColor
SetColorLimitHigh4	SetOffsetTop	SetUnselTextColor
SetColorLimitHigh5	SetOperation	SetVisible
SetColorLimitLow4	SetOperationMessage	SetWarningHigh
SetColorLimitLow5	SetOperationReport	SetWarningLow
SetColorToleranceHigh	SetOrientation	SetWindowsStyle
SetColorToleranceLow	SetOutputValueChar	SetWidth
SetColorTop	SetOutputValueDouble	SetZeroPoint
SetColorWarningHigh	SetPasswordLevel	SetZeroPointValue
SetColorWarningLow	SetPicDeactTransparent	SetZoom
SetCursorControl	SetPicDeactUseTransColor	
SetDirection	SetPicDownTransparent	
•		

GetTagBit	GetTagFloatState	GetTagSWordWait
GetTagByte	GetTagRawState	GetTagWordWait
GetTagDouble	GetTagSByteState	GetTagBitStateWait
GetTagDWord	GetTagSDWordState	GetTagByteStateWait
GetTagFloat	GetTagSWordState	GetTagDoubleStateWait
GetTagRaw	GetTagWordState	GetTagDWordStateWait
GetTagSByte	GetTagBitWait	GetTagFloatStateWait
GetTagSDWord	GetTagByteWait	GetTagRawStateWait
GetTagSWord	GetTagDoubleWait	GetTagSByteStateWait
GetTagWord	GetTagDWordWait	GetTagSDWordStateWait
GetTagBitState	GetTagFloatWait	GetTagSWordStateWait
GetTagByteState	GetTagRawWait	GetTagWordStateWait
GetTagDoubleState	GetTagSByteWait	
GetTagDWordState	GetTagSDWordWait	

SetTagBit	SetTagFloatState	SetTagSWordWait
SetTagByte	SetTagRawState	SetTagWordWait
SetTagDouble	SetTagSByteState	SetTagBitStateWait
SetTagDWord	SetTagSDWordState	SetTagByteStateWait
SetTagFloat	SetTagSWordState	SetTagDoubleStateWait
SetTagRaw	SetTagWordState	SetTagDWordStateWait

SetTagSByte	SetTagBitWait	SetTagFloatStateWait
SetTagSDWord	SetTagByteWait	SetTagRawStateWait
SetTagSWord	SetTagDoubleWait	SetTagSByteStateWait
SetTagWord	SetTagDWordWait	SetTagSDWordStateWait
SetTagBitState	SetTagFloatWait	SetTagSWordStateWait
SetTagByteState	SetTagRawWait	SetTagWordStateWait
SetTagDoubleState	SetTagSByteWait	
SetTagDWordState	SetTagSDWordWait	

Supported ODK Functions

PWRTCheckPermission

PWRTCheckPermissionOnPicture // Only the "permlevel" parameter is evaluated!

MSRTStartMsgService

MSRTStopMsgService

- MSRTCreateMsg
- MSRTCreateMsgInstanceWithComment
- MSRTSetComment
- PDLRTGetLink
- PDLRTSetLink
- PDLRTSetMultiLink

PDLRTGetPropEx // Nur das Lesen wird unterstützt.

PDLRTSetPropEx // Nur das Setzen wird unterstützt.

- TXTRTConnect
- TXTRTDisconnect
- TXTRTGetInfoTextMC

Unterstützte User Archive-Funktionen

Note

User archive functions must always start with "ua" in lower case.

Functions beginning with the uppercase letters "UA" are ODK functions. These ODK functions are not supported on the WebNavigator Client.

uaArchiveClose	uaArchiveGetName	uaArchiveSetFieldValueLong
uaArchiveDelete	uaArchiveGetSort	uaArchiveSetFieldValueString
uaArchiveExport	uaArchiveImport	uaArchiveSetFilter
uaArchiveGetCount	uaArchiveInsert	uaArchiveSetSort

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uaArchiveGetFieldLength	uaArchiveMoveFirst	uaArchiveUpdate
uaArchiveGetFieldName	uaArchiveMoveLast	uaArchiveWriteTagValues
uaArchiveGetFields	uaArchiveMoveNext	uaArchiveWriteTagValuesByName
uaArchiveGetFieldType	uaArchiveMovePrevious	uaConnect
uaArchiveGetFieldValueDate	uaArchiveOpen	uaDisconnect
uaArchiveGetFieldValueFloat	uaArchiveReadTagValues	uaGetLastError
uaArchiveGetFieldValueDouble	uaArchiveReadTagValuesByName	uaGetLastHResult
uaArchiveGetFieldValueLong	uaArchiveRequery	uaQueryArchive
uaArchiveGetFieldValueString	uaArchiveSetFieldValueDate	uaQueryArchiveByName
uaArchiveGetFilter	uaArchiveSetFieldValueDouble	uaReleaseArchive
uaArchiveGetID	uaArchiveSetFieldValueFloat	

Supported MBCS Functions

_ismbcalnum	_mbscat	_mbsncmp
_ismbcalpha	_mbschr	_mbsncpy
_ismbcdigit	_mbscmp	_mbsnicmp
_ismbcgraph	_mbscpy	_mbspbrk
_ismbclower	_mbsdec	_mbsrchr
_ismbcprint	_mbsicmp	_mbsspn
_ismbcpunct	_mbsinc	_mbsstr
_ismbcspace	_mbslen	_mbstok
_ismbcupper	_mbscspn	_mbctolower
_mbclen	_mbsncat	_mbctoupper

4.7.2.2 WaitForDocumentReady

Function

The function checks whether a picture is loaded in the specified picture window.

A difference must be made in the scripts of process pictures or project functions between the runtime environment of WinCC and of the WebNavigator Client. The following Compiler commands exist to this purpose:

- #ifdef RUN_ON_WEBNAVIGATOR
- #ifndef RUN_ON_WEBNAVIGATOR

This allows you to distinguish between WinCC and the WebNavigator Client in your configuration as follows:

- Script delay with "WaitForDocumentReady"
- Differing picture addressing
- Different function names for control system functions
- Functions that are not supported on the WebNavigator Client

Syntax in ANSI-C

int WaitForDocumentReady(LPCSTR lpszPictureWindow)

Parameters

IpszPictureWindow

Pointer to the name of the picture window that is opened in the WebNavigator Client. The following addressing syntax is possible:

- Picture window "xxx" in the current screen: ./xxx
- Picture window "yyy" in the view object "xxx": ./xxx/yyy
- Picture window "xxx" in the parent screen: .../xxx
- Picture window "xxx" in the parent picture of the parent screen: ../../xxx
- Absolute path compatible with WinCC

Return value

TRUE

The picture window has been found and the status checked.

FALSE

The picture window has not been found.

Example of ANSI-C

```
#ifdef RUN_ON_WEBNAVIGATOR
SetPropChar("../", "View", "PictureName", szViewName);
WaitForDocumentReady("../View");
#else
SetPropChar(lpszParent, "View", "PictureName", szViewName);
#endif
```

Note

The syntax of the code section for WebNavigator is not checked during compilation of the WinCC script and is checked only when the pictures are published.

VBScript syntax

Sub WaitForDocumentReady(Byref PictureWindow)
On Error Resume Next
Err.Clear
Dim state
state = PictureWindow.DocumentState
If Err.Number = 0 Then
While state = 1 ' Loading

```
'HMIRuntime.Trace "DocumentState = " & state
state = PictureWindow.DocumentState
Wend
End If
End Sub
```

Example of VBScript

```
Sub OnClick(ByVal Item)
Dim window
Set window = HMIRuntime.ActiveScreen.ScreenItems("PictureWindow2")
window.Visible = True
WaitForDocumentReady window
End Sub
```

4.7.2.3 Unsupported Functions

The following list is only an extract of the unsupported functions. The list contains the functions that are explicitly stated as being unsupported.

Functions

GetHWDiag	OnDeactivateExecute	ReportJob
GetHWDiagLevel	OnErrorExecute	RPTJobPreview
GetKopFupAwl	OnTime	RPTJobPrint
GetKopFupAwlLevel	OpenPrevPicture	RptShowError

VBScript functions

- HMIRuntime.Stop: Terminates Internet Explorer and WinCCViewerRT, but not WinCC Runtime.
- AlarmLogs Object
- DataLogs Object
- Logging Object
- Project Object

Functions That Are not Required:

- DeactivateRTProject: Terminates Internet Explorer and WinCCViewerRT, but not WinCC Runtime.
- ExitWinCC
- FillDiagnoseInTags
- InquireLanguage
- TraceText
- TraceTime

Other Functions

These functions are included in the functional scope in order to ensure error-free compilation on the WebNavigator Client. The functions are not supported by the WebNavigator Client.

AXC_OnBtnHornAckn	GetCursorMode	GmsgFunction
AXC_OnBtnPrint	SetCursorMode	MSRTMsgWinCommand
AXC_OnBtnProtocol		TlgTableWindowPressHelpButton

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