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NEWS

Installation and Operation of WinCC V7.5 / WinCC V15.1 Professional in a Windows Domain

WinCC V7.5 / WinCC V15.1 Professional

https://support.industry.siemens.com/cs/ww/en/view/78346833

Siemens Industry Online Support



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1 Introduction

1.1 Overview

Complex IT infrastructure networks with domain controllers are used in many areas of industrial and manufacturing facilities.

A domain controller is a server used to manage central computers or users. This is particularly useful for large networks in which clients have to be managed or administered from a central computer and saves a lot of time and effort.

If WinCC V7.5 or WinCC V15.1 Professional is to be installed or operated on a domain client, certain specifications must be observed.

1.2 Description of the automation task

This manual shows you the possible procedures for using WinCC V7.5 and WinCC V15.1 Professional in a domain. The topics covered in this example are:

- Installing a domain-domain controller (Windows Server 2016 Dataserver LTSC)
- Installing a domain administrator (Windows Server 2016 Dataserver LTSC)
- Removing a domain client from the domain (Windows 10 Enterprise LTSC)
- Installing WinCC V7.5/ WinCC V15.1 Professional on a computer (Windows 10 Enterprise LTSC)
- Adding a computer to a domain as a client (Windows 10 Enterprise LTSC)
- Create domain group (Windows Server 2016 Dataserver LTSC)
- Creating domain users and assigning them to a domain group (Windows Server 2016 Dataserver LTSC)
- Inserting a Domain Group into a Local Group (Windows 10 Enterprise LTSC)

Work through the entire document sequentially. Where points are not necessary for your configuration, you will be informed about it in the corresponding chapter.

Note The name LTSB (Long-term Servicing Branch) was officially renamed LTSC (Long-term Servicing Channel) by Microsoft. Nothing changes in the systems except the designation. Additional information is available at the following link:

https://docs.microsoft.com/en-us/windows/whats-new/ltsc/

1.3 Information on the domains

A domain is the top-level authentication instance in a Microsoft domain network.

This means that any user can log on to any computer that is a member of the domain. User profile, settings and access rights are loaded by the domain controller.

The connected clients and the associated security settings can be managed centrally by the domain controller.

Setting up a domain makes sense from about 10 computers on, or if several computers are physically far apart. Then the administration of the computers over a domain is more time-saving than the administration manually on the individual computers. For more information on the various topics regarding a domain, see the following sections. The following figure shows you how the network can be structured with WinCC as an example.

Note Domain servers should always be redundant to avoid downtime in case of failures.



Workgroup and domain

To work in a network with Windows operating system, the computers must belong to a workgroup or domain. The main difference between these two user administrations is the central distribution of resources, such as access to directories, printers or Internet access and the ability to manage the security settings of execution rights, access information or group policies.

Main features of Workgroup

- No computer has control over another computer in the workgroup.
- Each computer has a number of user accounts. Only users with user accounts can use the computer. The user accounts can be managed by one (or more) main user(s).
- Workgroups are local networks.
- Joining a workgroup is done without access control.

Main features of domains

Domain controller

In a domain, the domain controller is a server on which the central headquarters for security and privileges of all user profiles and computer accounts of the domain are maintained.

- Domain administrator
 - Changes to the domain controller/server are only made by an employee authorized by the company, the domain administrator.
 - Permissions and group policies for each user profile are set only by the domain administrator, either centrally on the domain controller/server or on each local computer. These changes are automatically applied when each domain user logs on.
- Domain group:
 - A group within the domain to which domain users are assigned.
 - Are assigned to local groups on the domain clients to inherit the contained local rights to the domain users.
 - Serves as a link between domain users and local groups to simplify rights management
- Domain user:
 - A user who successfully logs on to a domain using a user profile is referred to as a domain user.
 - All domain users are assigned a predefined user profile by the domain administrator. (Domain client)
 - Domain users can only log on to the domain using the assigned passwordprotected user profile.
 - Domain users must enter a password each time they log on to the domain (for example, after activation from standby).

• Computer:

- The domain administrator determines which domain user can log on to which computer in a domain.
- Domain users can only log on to a domain on authorized computers.
- The authorized computers are included in a domain based on their computer names.
- The computers of each domain user can be on different local networks.

Selection of workgroup or domain

If a network has a large number of users and different resources, the domain model is suitable for simplified and clear management of the network.

In a domain, you can centrally make certain resources such as access to directories, printers, or Internet access with predefined authorizations available to the respective user groups with the associated user profiles.

1.4 Recommended architecture for WinCC in a domain

The following figure illustrates the recommended structure of a domain network.

The domain users are created on the domain controller and assigned to different domain groups. These domain groups are then assigned to different local groups on the domain client. These groups and thus also the assigned domain users have the respective rights on the clients.

This means that the domain administrator can give individual domain users access rights to different clients by adding them to domain groups.

Note More information on this topic can be found under this link: https://support.industry.siemens.com/cs/ww/en/view/22229786 section 4.1



1.5 Components used

Since the configuration in this application example is only exemplary, the domain network was created with only two computers. In general, you should run your domain server redundantly to avoid failures. The number of domain clients and domain users should also be considerably higher, so that the effort to operate a domain is worthwhile.

The following hardware and software components were used to create this application example:

Table 1-1

Components	Article number	Note
Windows 2016 Dataserver LTSC (LTSB)		"Domain controller"
Windows 10 LTSC (LTSB)		"Domain client"

2 Execution

2.1 Setting up the Windows domain on the server system

This section describes how to create a domain controller on the server operating system. Key points and screenshots support you during the configuration.

Note During the installation and setup of the "Active Directory Domain Service" (AD DS), a DNS server is automatically created on the server, which is why the manual setup of the DNS server is not discussed further in this document.

Establishing namesfor computers

Before you set up the domain controller, give the computer a unique name. This makes it easier to set up and avoids problems. The name of the domain controller cannot be changed after setup.

1. You can change the name in Control Panel > System and Security > System. Click the "Change settings" entry.

🔛 System				- 0	\times
← → ∽ ↑ 🗹 > Control F	Panel > System and Security > Sys	stem	~ Ö	Search Control Panel	P
Control Panel Home	View basic information	about your computer			
😌 Device Manager	Windows edition				
💡 Remote settings	Windows Server 2016 Data	center			
Advanced system settings	© 2016 Microsoft Corporat	ion. All rights reserved.	W.	indows Server [,] 2016	
	System				
	Processor:	Intel(R) Core(TM) i7-6820HQ CPU @ 2.70GHz 2.71 GHz (2 processors)			
	Installed memory (RAM):	8.00 GB			
	System type:	64-bit Operating System, x64-based processor			
	Pen and Touch:	No Pen or Touch Input is available for this Display			
	Computer name, domain, and	workgroup settings			
	Computer name:	WinCC-Server		Change settir	ngs
	Full computer name:	WinCC-Server		\sim	
	Computer description:				
	Workgroup:	WORKGROUP			
	Windows activation				
	Windows is not activated.	Read the Microsoft Software License Terms			
	Broduct ID: 00276-40000-0	0000 4 4047		Activate Wind	
	1000cc10: 00370-40000-0			Activate wind	0115
See also					

 A window with the system properties opens. Enter a suitable description for your computer in the "Computer description" field. (1) "Click on the "Change" button in this window. (2) (see <u>Figure 2-2</u>) This will open another window called "Computer Name/Domain Changes". In the "Computer name" field, enter the desired name for the domain controller.
 (3) Exit the window via the "OK" button. (4) Confirm your changes in the system properties window with the "Apply" button.

(5) A pop-up window will appear prompting you to restart your computer to apply the changes you have made. Restart the computer before proceeding with the domain controller setup.

Figure 2-2

stem Properties X Computer Name/Domain Changes Omputer Name Hardware Advanced Remote Windows uses the following information to identify your computer Computer reasons Windows uses the following information to identify your computer Computer reasons Computer reasons Computer name: Domain Server Full computer name: Full comput	And the Properties			
Computer Name Hardware Advanced Renote You can change the name and the membership of this computer. Changes might affect access to network reso Computer desorption: Computer name: Computer name: **Recounting Soviet" Computer name: Computer name: Full computer name: WICCSServer Full computer name: Computer name: WorkSROUP WORKGROUP Computer name: Computer name:	Computer Name Hardware Advanced Remote You can change the name and the membership of this computer description Windows uses the following information to identify your computer on the network. Computer description For example: "IIS Produce" Computer name: Domain Server Full computer name: Domain Server Full computer or change to domain or workgroup, clok Change More	ystem Properties	×	Computer Name/Domain Changes
Computer description: Exit 5 Pode Computer name: For example: "IS Pode Computer name: DomainServer Computer name: WinCC:Server WorkgROUP Computer name: DomainServer All All All All All All All A	Computer description: Existence Computer name: Processing Server: All of Computer name: Domain Server Full computer or change its domain or rodrigrup, clot Change. More Member of Domain.	Omputer Name Hardware Advanced Remote Windows uses the following information to identify you on the network. Information to identify you Information to identify you	ur computer	You can change the name and the membership computer. Changes might affect access to netw
	To rename this computer or change its domain or Change More workgroup, click Change. More of O Domain:	Computer description: E018 Domain Server For example: "IS Product "Accounting Sorrer", Ful computer name: WinCC-Server WorktGROUP	1	Computer name: DomainServer/ Full computer name: DomainServer
Workgroup: WORKGROUP		OK Cancel	Apply	ОК

Result

You have assigned a fixed name to your computer. This name serves the uncomplicated identification of the domain controller in the network. Continue with assigning a fixed IP address.

Assigning a fixed IP address.

To use the computer later as a server, you must define a static IP address for the computer.

Since the configuration in this application example is only exemplary, fixed IP addresses were assigned for both computers. In a real system, only the domain controller has a fixed IP address. The IP address for the connected clients is assigned by the domain controller via DHCP.

1. You can change the IP address in Control Panel > Network and Internet > Network and Sharing Center. Click the "Change adapter settings" entry.

Network and Sharing Center				-	×
🗧 🔶 👻 🛧 🙀 > Control P	anel > Network and Internet > Network a	and Sharing Center	ٽ ~	Search Control Panel	P
Control Panel Home	Control Panel Home View your basic network information and set up connections				
Change adapter settings	View your active networks				
Change advand	Unidentified network	Access type: No network access			
settings	Public network Change your networking settings	Connections: 🦉 Ethernet0			
	Set up a new connection or r	network			

 This opens an overview of the computer's network adapters. Right-click on the adapter you are using. (1) Choose the "Properties" option from the shortcut menu. (2)

Figure 2-4

Network Connections				-		Х
$\leftarrow \ \ \rightarrow \ \ \rightarrow \ \ \uparrow$ ($I\!$	ections		マ ひ Search Netw	ork Conn	ections	٩
Organize Disable this network device Diagnose this connection Re	lename this connection	View status of this connection	Change settings of this connection			?
Ethernet0 Uniderrified network Intell®						
1 item 1 item selected						

3. The window with the adapter settings opens. Disable the IPv6 protocol. (1) Open the IPv4 protocol properties with a double click on the entry. (2) Assign the computer a fixed IP address, subnet mask and the default gateway, if available. (3) Confirm your IPv4 settings with the "OK" button. (4) Confirm your adapter settings with the "OK" button. (5)

Figure 2-5

🖗 Ethernet0 Properties 🛛 🗙	Internet Protocol Version 4 (TCP/IPv4) Properties
Networking	General
Connect using:	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Configure This connection uses the following items: Client for Microsoft Networks Client for Microsoft Networks Client for Microsoft Networks Client for Microsoft Networks Client for Microsoft Version 4 (TCP/IPv4) Client Protocol Version 4 (TCP/IPv4) Client Protocol Version 6 (TCP/IPv4) Client Protocol Version 6 (TCP/IPv Clien	 Obtain an IP address automatically Use the following IP address: IP address: Subnet mask: Default gateway: Obtain DNS server address automatically Obtain DNS server addresses: Preferred DNS server: I72 · 16 · 42 · 100 Use the following DNS server addresses: Preferred DNS server: I72 · 16 · 0 · 1 Alternate DNS server: Atternate DNS server: Atternate DNS server: OK Cancel

Result

You have assigned a fixed IP address (IPv4) to your computer and can continue with the installation of the AD DS.

2.2 Installing the domain controller

1. Open the Windows "Server Manager". To do this, enter the term "Server" in the Windows search. (1) Then click on the "Server Manager" entry. (2)

Figure 2-6



2. The Windows "Server Manager" opens. Click on "Add roles and features".



3. The "Add Roles and Features Wizard" window opens. Click the "Next" button to continue setting up the domain server.

Figure 2-8

~ ~



 In the following "Installation Type" window, select the "Role-based or featurebased installation" option. (1) Continue with the setup by pressing the "Next" button. (2)

Add Roles and Features \	Wizard	-		>
Select installat	tion type	DESTINA	TION SER DomainSe	VER
Before You Begin Installation Type Server Selection Server Roles Features Confirmation Results	Select the installation type. You can install roles and features on a running phy machine, or on an offline virtual hard disk (VHD). Role-based or feature-based installation Configure a single server by adding roles, role services, and features. Remote Desktop Services installation Install required role services for Virtual Desktop Infrastructure (VDI) to creat or session-based desktop deployment.	rsical comput	er or virt achine-b	ual

5. The "Select destination server" window appears. Activate the "Select server from server pool" option. (1) Select the computer from the list of available servers that you want to make the domain server. (2) Continue with the setup by pressing the "Next" button. (3)

Figure 2-10

🚔 Add Roles and Features Wizard				_		\times
Select destination	server			DESTIN/	ATION SER\ DomainSer	/ER ver
Before You Begin	Select a server or a virtual	hard disk on which	to install roles and features.			
Installation Type	Select a server from the	e server pool				
Server Selection	O Select a virtual hard dis	k				
Server Roles	Server Pool					
Features						_
Confirmation	Filter:					
Results	Name	IP Address	Operating System			
	DomainServer 1 Computer(s) found This page shows servers th and that have been added newly-added servers from	at are running Win by using the Add S which data collecti	Microsoft Windows Server 2016 dows Server 2012 or a newer relea ervers command in Server Manag on is still incom	se of Wind er. Offline s	ows Serve servers an	er, d
		< Pre	vious Next >	nstall	Cance	4

6. The "Select server roles" window opens and you can use it to assign various tasks to the server. Click on the "Activate Directory Domain Services" box.



 Once you select this option, a pop-up window will appear listing which software components will be installed on your system by adding the feature. With one click activate the option "Include management tools (if applicable)". (1) Confirm the addition of the domain service by clicking the "Add Features" button. (2)

```
Figure 2-12
```

📥 Add Roles and Features Wizard	х
Add features that are required for Active Directory Domain Services?	
The following tools are required to manage this feature, but do not have to be installed on the same server.	
[Tools] Group Policy Management A Remote Server Administration Tools A Role Administration Tools AD DS and AD LDS Tools AD DS Tools [Tools] Active Directory Administrative Center [Tools] AD DS Snap-Ins and Command-Line Tools	
Add Features Cancel]

8. You will then be redirected to the previous window. The option "Active Directory Domain Services" is now selected. Continue with the setup by pressing the "Next" button.



9. The next window is a selection screen of the Windows features. Leave these unchanged for the setup of the domain server and continue with a click on the "Next" button.

Figure 2-14

📥 Add Roles and Features Wizard		- 🗆 X
Select features Before You Begin	Select one or more features to install on the selected server.	DESTINATION SERVER DomainServer
Installation Type Server Selection Server Roles Features AD DS Confirmation Results	Features Image: State in the image in the image. Image: Image in the image	Description .NET Framework 3.5 combines the power of the .NET Framework 2.0 APIs with new technologies for building applications that offer appealing user interfaces, protect your customers' personal identity information, enable seamless and secure communication, and provide the ability to model a range of business processes.
	Host Guardian Hyper-V Support VO Quality of Service IfS Hostable Web Core Internet Printing Client IP Address Management (IPAM) Server iSNS Server service <	Install Cancel

10. The following screen provides information about "Active Directory Domain Service". Continue by clicking on the "Next" button.



Add Roles and Features Wizard		-		×
Active Directory [Jomain Services	DESTIN	ATION SER DomainSe	VER
Before You Begin Installation Type Server Selection Server Roles Features AD DS Confirmation	 Active Directory Domain Services (AD DS) stores information about users, compuon the network. AD DS helps administrators securely manage this information as sharing and collaboration between users. Things to note: To help ensure that users can still log on to the network in the case of a server minimum of two domain controllers for a domain. AD DS requires a DNS server to be installed on the network. If you do not have installed, you will be prompted to install the DNS Server role on this machine. 	uters, and nd facilitat [,] outage, ir ve a DNS s	other dev tes resour nstall a erver	rce
Results	Azure Active Directory, a separate online service, can provide simp access management, security reporting, single sign-on to cloud ar apps. Learn more about Azure Active Directory Configure Office 365 with Azure Active Directory Connect	blified iden	tity and nises web	,
	< Previous Next > In	stall	Cance	el

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11. In the following window you will be asked to confirm the installation of the various components in the system. The individual components are listed again in a window. Select the option "Restart the destination server automatically if required".

Figure 2-16

0				
📥 Add Roles and Features Wizard		-		×
Confirm installatio	n selections	DESTINA	(TION SERV DomainSer	/ER ver
Before You Begin	To install the following roles, role services, or features on selected server, click Insta	ill.		
Installation Type	Restart the destination server automatically if required			
Server Selection Server Roles	Optional features (such as administration tools) might be displayed on this page by een selected automatically. If you do not want to install these optional features, co their check boxes.	acause th lick Previ	ney have ious to cle	ear
AD DS	Active Directory Domain Services			
Confirmation	Group Policy Management			
Results	Remote Server Administration Tools Role Administration Tools AD DS and AD LDS Tools AD DS Tools Active Directory Administrative Center AD DS Snap-Ins and Command-Line Tools			
	Export configuration settings Specify an alternate source path			
	< Previous Next > Inst	all	Cance	1

- 12. A pop-up window opens with a warning that the server will restart if necessary without any further message. If you agree, confirm this with the "Yes" button.
- **Note** Make sure that no applications are running on the target system that are important for the functionality of your system and must not simply be switched off.



13. After confirming the warning, check the option. Now install the "Active Directory Domain Service" and the other elements by clicking on the "Install" button.

Figure 2-18

Add Roles and Features Wizard	>	
Confirm installa	tion selections	DESTINATION SERVER DomainServer
Before You Begin	To install the following roles, role services, or features on selected se	er, click Install.
Installation Type	Restart the destination server automatically if required	
Server Selection	Optional features (such as administration tools) might be displayed	n this page because they have
Server Roles	been selected automatically. If you do not want to install these option	al features, click Previous to clear
Features	their check boxes.	
AD DS	Active Directory Domain Services	
Confirmation	Group Policy Management	
Results	Remote Server Administration Tools	
	Role Administration Tools	
	AD DS and AD LDS Tools	
	AD DS Tools	
	Active Directory Administrative Center	
	AU US Snap-ins and Command-Line Ioois	
	Export configuration settings	
	specity an alternate source path	
	< Previous Next >	Install Cancel

14. Wait for the installation of the individual components.

Result

You have completed the installation of the components required to use your server as a domain controller and can proceed with the setup.

2.3 Setup of the domain controller

 Open the Microsoft Server Manager. After installation, a yellow warning icon appears at the top of the Server Manager with an exclamation mark on the flag button. Click the button with the flag. (1) Click on the entry "Promote this Server to a domain controller" in the context menu that opens. (2)

Figure 2-19		×
Server M	anager • Dashbo	oard • ② 🍊 Manage Tools View Help
Dashboard I Local Server II Servers II AD DS III File and Storage Services ▷	WELCOME TO SERVER	Post-deployment Configura Insist I x Configuration required for Active Directory Domain Services at DOMAINSERVER Promote this server to a domain controller feature installation Configuration required. Installatio Configuration required. Installatio Configuration required. Installatio Tosk Details
	LEARN MORE ROLES AND SERVER G Roles: 2 Server groups: AD DS	5 Connect this server to cloud services Hide ROUPS 1 Image: File and Storage services 1 Services 1

 The "Directory Domain Service Configuration Wizard" opens. Select the option "Add a new forest". (1) Assign a root domain name. (2) Click on the "Next" button to continue with the setup. (3)

Note Further information on the guidelines for domain name allocation can be found under the following link: <u>https://support.microsoft.com/en-gb/help/909264/naming-conventions-in-active-directory-for-computers-domains-sites-and</u>

📥 Active Directory Domain Services	Active Directory Domain Services Configuration Wizard — — — — — — — — — — — — — — — — — — —	\times		
Deployment Confi	guration	TAF D	GET SER omainSe	VER
Deployment Configuration Domain Controller Options DNS Options Additional Options Paths Review Options Prerequisites Check Installation Results	Select the deployment operation Add a domain controller to an existing domain Add a new domain to an existing forest Add a new forest Specify the domain information for this operation Root domain name: WinCC-DC.local	AI		
	More about deployment configurations			
	< Previous Next >	Install	Cance	I

3. In the options menu of the domain controller, select the "Forest functional level" and the "Domain functional level". (1) (2) Assign and confirm the DSRM password. (3) (4) Continue by clicking on the "Next" button. (5)

Х

Note The overall structure level and the domain function level must always correspond to the architecture of the oldest server that has administrative functions in the domain.

Figure 2-21			
📥 Active Directory Domain Service	es Configuration Wizard		- 🗆 ×
Domain Controlle	r Options		TARGET SERVER DomainServer
Deployment Configuration	Select functional level of the new fore	st and root domain	
DNS Options	Forest functional level:	Windows Server 2012 R2	~
Additional Options	Domain functional level:	Windows Server 2012 R2	ŭ boo
Paths	Specify domain controller capabilities		
Review Options	✓ Domain Name System (DNS) serve	er	
Prerequisites Check	Global Catalog (GC)		
Installation	Read only domain controller (ROD	C)	\bigcirc
Results	Type the Directory Services Restore M	ode (DSRM) password	
	Password:	•••••	
	Confirm password:	•••••	AI
	More about domain controller option	5	
	<	Previous Next >	Install Cancel

4. Continue with the "Next" button in the following window.

Active Directory Domain Service	s Configuration Wizard	-		×
DNS Options		TAR De	GET SE	RVER erver
A delegation for this DNS s	erver cannot be created because the authoritative parent zone cannot be found	Show n	nore	×
Deployment Configuration Domain Controller Options DNS Options	Specify DNS delegation options Create DNS delegation			
Additional Options				
Paths Review Options				
Prerequisites Check				
	More about DNS delegation			
	< Previous Next > Inst.		Cance	el

5. The following window displays the NetBIOS domain name. This corresponds to a modified form (abbreviated and with uppercase letters) of the Root Domain Name entry in step 2. Leave this one as is. Continue with the "Next" button.

Figure	2-23
--------	------

📥 Active Directory Domain Service	es Configuration Wizard		-		×
Additional Optior	ns		TAI D	RGET SER omainSe	RVER erver
Deployment Configuration Domain Controller Options DNS Options	Verify the NetBIOS name assigne The NetBIOS domain name:	ed to the domain and change it if necess WINCC-DC	ary		
Paths Review Options Prerequisites Check					
Installation Results					
	More about additional options				
		< Previous Next >	Install	Cance	:

6. The following window displays the paths in which the AD DS stores various data. Leave the paths as they are. Continue with the "Next" button.

Figure 2-24			
📥 Active Directory Domain Service	es Configuration Wizard		– 🗆 X
Paths			TARGET SERVER DomainServer
Deployment Configuration Domain Controller Options	Specify the location of the AD DS	database, log files, and SYSVOL	
DNS Options	Database folder:	C:\Windows\NTDS	
Additional Options	Log files folder:	C:\Windows\NTDS	
Paths	SYSVOL folder:	C:\Windows\SYSVOL	
Review Options			
Prerequisites Check			
	More about Active Directory path	s	
		< Previous Next >	Install Cancel

7. In the following window, you can view the settings you have just made again. Continue with the "Next" button.

Figure 2-25

ctive Directory Domain Services Configuration Wizard Perform Configuration Domain Controller Options DNS Options Additional Options Parts Prerequisites Check Installation Results Prerequisites Check Installation Results Prerequisites Check Installation Results More about installation options Check Ch	-		×	
Review Options		TAF D	RGET SEF IomainSe	VER erver
Deployment Configuration	Review your selections:			
Domain Controller Options	Configure this server as the first Active Directory domain controller in a new for	est.		^
DNS Options	The new domain name is "WinCC-DC.local". This is also the name of the new for	rest.		
Additional Options	The NetRIOS name of the domain: WINCO DC			
Paths	The Netbios hame of the domain. Winco-be			
Review Options	Forest Functional Level: Windows Server 2012 R2			
Prerequisites Check	Domain Functional Level: Windows Server 2012 R2			
	Additional Options:			
	Global catalog: Yes			
	DNS Server: Yes			
	Create DNS Delegation: No			~
	These settings can be exported to a Windows PowerShell script to automate additional installations More about installation options	Vi	iew scrip	t
	< Previous Next > Install		Cance	1

8. The following window checks the installation requirements for Active Directory Domain Services. Wait until the check is completed. After the check, you can see useful hints for the settings made and the upcoming installation in the display window. Continue with the installation by clicking on the "Install" button. Your computer restarts after the successful installation.





Result

You have successfully set up your domain controller. When you start the computer in the login area, you will see that the name of the computer is changed from "Administrator" to "Domain name\Administrator", for instance. This user was automatically added to the created domain with the installation. This user also has the administrative rights for the domain. You can also find this information in the System section of the Control Panel. (framed in red Figure 2-27) Registration is now only possible with the defined netBIOS password.





2.4 Setting up the domain client with WinCC

Adapter settings in the domain client

The adapter settings must also be configured on the domain clients. Since the client is a system on which WinCC is to be operated, it is necessary to assign a fixed IP address. The server must also be made known to the client. If the computer has already been a member of the domain, you can skip this section.

- **Note** If the IP addresses for the connected clients with active runtime are assigned via DHCP, then only in connection with "**fixed reservations**". The background is that WinCC or WinCC Runtime V7.5/V15.1 does not work with changing IP addresses.
 - 1. Open the IPv4 settings of the used interface of the domain client. To do this, follow steps 1-3 from Chapter <u>2</u> Section "Assigning a Fixed IP Address".
 - 2. In the IPv4 settings, assign the domain client its own static IP address, a subnet mask and, if available, the default gateway of your system. (1)
 - 3. In the Preferred DNS server field, enter the IP address that you have assigned to the domain server when using the DNS server provided by the domain server, as in this example.
- **Note** Make sure that the domain server and domain client are in the same network, but have different IP addresses.

Result

You have successfully configured the Ethernet adapter of the client computer and can continue integrating the computer into the domain.

2.5 Remove a computer from a domain

If your computer is already a member of a domain and you want to install WinCC on it, it is necessary to remove the computer from the domain beforehand and later include it again. The reason for this is that group policy and domain policies can interfere with the correct installation. If the computer is not yet a member of the domain, continue with chapter <u>2.6</u> fort. You can see this in the system properties. (framed in red Figure 2-28).

 Open the system properties. You can find these in the path "Control Panel > System and Security > System". In the Computer name, Domain, and Workgroup settings area, click the Change settings button.

Figure 2-28

	System					-		×
<	- 🔿 🕤 🛧 🔛 > Control Pane	el > System and Security > Sys	stem		✓ ♂ Search	h Control Panel		P
	Control Panel Home	View basic information	about your computer					?
•	Device Manager	Windows edition						
•	Remote settings	Windows 10 Enterprise 201	5 LTSB					_
•	System protection	© 2016 Microsoft Corporat	ion. All rights reserved.		Win	dowe	; 1(
\$	Advanced system settings	System Processor: Installed memory (RAM): System type: Pen and Touch:	Intel(R) Core(TM) i7-6820HQ CPU i 16.0 GB 64-bit Operating System, x64-base No Pen or Touch Input is available	⊉ 2.70GHz 2.71 GHz d processor for this Display				
		Computer name, domain, and	workgroup settings]				
		Computer name: Full computer name: Computer description: Domain:	WinCC-Client WinCC-Client.WinCC-DC.local VM_SITRAIN_02 WinCC-DC.local			Chang	e settin	gs
		Windows activation						
		Windows is activated Rea	d the Microsoft Software License Ter	ms				
		Product ID: 00380-20282-9	4736-AA229			🗣 Change p	roduct l	key
	See also							
	Security and Maintenance							

2. The "System Properties" opens. Click the "Change" button in the lower area. Figure 2-29

Computer Name	Hardware	Advanced	System Protection	Remote	
Wind on the	ows uses the e network.	e following inf	ormation to identify	/our computer	
Computer descri	ption:	M_SITRAIN	02]
	F	or example: "I omputer".	Kitchen Computer" (or "Mary's	
Full computer na	ame: W	/inCC-Client.V	VinCC-DC.local		
Domain:	W	/inCC-DC.loci	al		
To use a wizard Network ID.	to join a dor	main or work <u>o</u>	proup, click	etwork ID	
To rename this o workgroup, click	computer or c Change.	change its do	omain or	Change]
		01			

3. The window for changing computer name and domain affiliation settings opens. Check the "Workgroup" option in the "Member of" section. (1) Enter the default name "WORKGROUP" in the field below that. (2) Confirm your settings with the "OK" button. (3)

Figure 2-30

	Computer Name/Domain Changes	×
	You can change the name and the membership of this computer. Changes might affect access to network resources.	
	Computer name:	
	WinCC-Client	
	Full computer name: WinCC-Client.WinCC-DC.local	
	More	
1	Member of O Domain: WinCC-DC.local Workgroup: WORKGROUP	
	OK Cancel	

4. A security window will appear prompting you to enter the credentials of a user who has permission to join the domain. Enter the user name of the Admin set up on the domain server. (1) Enter the password of the Admin set up on the domain server. (2) Confirm your entries with the "OK" button. (3)

Windows Security ×
Computer Name/Domain Changes
Enter the name and password of an account with permission to remove this computer from the domain.
Administrator
Domain: WinCC-DC.local
OK Cancel

5. If the credentials are entered correctly, the client computer is removed from the domain. A window will appear in which you will be informed that you have joined the "WORKGROUP" working group. Confirm this with the "OK" button.

Figure 2-32



6. In another window, you will be informed that you must restart the computer before the changes you have made become active.

Figure 2-33

Compu	uter Name/Domain Changes
1	You must restart your computer to apply these changes
	Before restarting, save any open files and close all programs.
	OK

7. Restart the computer as soon as possible.

Result

You have successfully removed the computer from the domain. You can also find this in the information in your system. The computer is no longer subject to the policies and regulations of the domain. You can now start the installation of WinCC.

System				>	<
← → × ↑ 🗹 ➤ Control P	Panel > System and Security > Sy	stem	ٽ ~	Search Control Panel	
Control Panel Home	View basic information	about your computer			?
💡 Device Manager	Windows edition				
💡 Remote settings	Windows 10 Enterprise 201	6 LTSB			
System protection	© 2016 Microsoft Corpora	ion. All rights reserved.		/indows10	
Advanced system settings				11000510	
	System				
	Processor:	Intel(R) Core(TM) i7-6820HQ CPU @ 2.70GHz 2.71 GHz			
	Installed memory (RAM):	16.0 GB			
	System type:	64-bit Operating System, x64-based processor			
	Pen and Touch:	No Pen or Touch Input is available for this Display			
	Computer name, domain, and	workgroup settings -			
	Computer name:	WinCC-Client		Change settings	
	Full computer name:	WinCC-Client			
	Computer description:	VM_SITRAIN_02			
	Domain:	WORKGROUP			
	Windows activation				
	Windows is activated Rea	d the Microsoft Software License Terms			
	Product ID: 00380-20282-9	4736-AA229		Change product key	,
				÷	
See also					
Security and Maintenance					

2.6 Installing WinCC on a domain computer

If your computer is already part of the domain, you should remove it for the installation. The procedure is shown in chapter <u>2.5</u>. Install "Windows Message Queueing" and WinCC V7.5 / WinCC V15.1 Professional on the user PC. Restart the user computer when installation is completed. For further information on installing the different WinCC versions, please refer to the following links:

WinCC V7.5:

https://support.industry.siemens.com/cs/ww/en/view/109762744

WinCC V15.1:

https://support.industry.siemens.com/cs/ww/en/view/109755202

Note Note however that domain group policies and restrictions in the domains may prevent installation.

To make sure that the installation and the function of the software on the computer are carried out without errors, remove the computer from the domain before the installation.

In addition, WinCC servers and domain servers must operate on separate systems.

2.7 Adding a computer to a domain

This section describes how to add a computer to a domain. If you want to use WinCC on the computer and have not yet performed the required installations, start with the chapter "2.4". Otherwise continue with the instructions here. The operating system used here is Windows 10 Enterprise LTSC (LTSB). When using other operating systems, the display of the menus may differ.

 Open the system properties. You can find these in the path "Control Panel > System and Security > System". In the Computer name, Domain, and Workgroup settings area, click the Change settings button.

Figure 2-35

-			
System		_	- L ×
← → ~ ↑ 🖳 > Cont	trol Panel > System and Security > Sy	stem	✓ ひ Search Control Panel P
Control Panel Home	View basic information	about your computer	•
😌 Device Manager	Windows edition		
💎 Remote settings	Windows 10 Enterprise 201	6 LTSB	
System protection	© 2016 Microsoft Corporat	tion. All rights reserved.	Windows 10
😝 Advanced system settings			
	System		
	Processor	Intel(R) Core(TM) i7-6820HQ CPU @ 2.70GHz 2.71 GHz	
	Installed memory (RAM):	16.0 GB	
	System type:	64-bit Operating System, x64-based processor	
	Pen and Touch:	No Pen or Touch Input is available for this Display	
	Computer name, domain, and	workgroup settings	
	Computer name:	WinCC-Client	Change settings
	Full computer name:	WinCC-Client	
	Computer description:	VM_SITRAIN_02	
	Workgroup:	WORKGROUP	
	Windows activation		
	Windows is activated Rea	d the Microsoft Software License Terms	
	Decident ID: 00280-20282-0	4726 4 4 2 20	Change product key
	Product ID: 00500-20202-9	4/50-AA229	Change product key
See also			
Security and Maintenance			

2. The "System Properties" opens. Click the "Change" button in the lower area. Figure 2-36

System Properties						,
System Properties						
Computer Name	Hardware	Advanced	System Prote	ction	Remote	
Window on the	vs uses th network.	e following inf	omation to ide	entify yo	our compute	r
Computer description	ion:	/M_SITRAIN	_02			
	F	or example: " computer".	Kitchen Compu	ter" or	"Mary's	
Full computer nan	ne: V	VinCC-Client				
Workgroup:	v	VORKGROU	•			
To use a wizard to Network ID.	o join a do	main or workg	group, click	Ne	stwork ID	
To rename this co workgroup, click (mputer or Change.	change its do	omain or	9)	Change	
		ОК	Ca	ncel	Арр	ly

3. The window for changing computer name and domain affiliation settings opens. Check the "Domain" option in the "Member of" section. (1) Enter the name of the domain in which you want to include the computer in the field below that. (2) Confirm your settings with the "OK" button. (3)

Figure 2-37

Computer Name/Domain Changes	×							
You can change the name and the membership of this computer. Changes might affect access to network resources.								
Computer name:								
WinCC-Client								
Full computer name: WinCC-Client	lore							
Member of								
Domain:								
WinCC-DC.local								
Workgroup:								
WORKGROUP								
OK C	ancel							

Note

The domain server must be switched on for the integration of a new computer.

 A security window will appear prompting you to enter the credentials of a user who has permission to join the domain. Enter the user name of the Admin set up on the domain server. (1) Enter the password of the Admin set up on the domain server. (2) Confirm your entries with the "OK" button. (3)

Windows Security ×
Computer Name/Domain Changes
Enter the name and password of an account with permission to join the domain.
Administrator
Domain: WinCC-DC.local
OK Cancel

5. If the credentials are entered correctly, the client computer is integrated into the domain. A window will appear in which you will be informed that you have joined the domain. Confirm this with the "OK" button.

Figure 2-39



6. In another window, you will be informed that you must restart the computer before the changes you have made become active.

Figure 2-40 Computer Name/Domain Changes You must restart your computer to apply these changes Before restarting, save any open files and close all

programs.

7. Restart the computer as soon as possible.

Result

You have successfully added the computer as a client to the domain. You can also find this in the information in your system. The computer is now subject to the policies and regulations of the domain.

🖳 System					-		×
🗧 🔶 🕤 🛧 🛃 > Control Pane	el > System and Security > Sys	item		~ Ö	Search Control Pane	sl	Q
Control Panel Home	View basic information	about your computer					?
💔 Device Manager	Windows edition						
💎 Remote settings	Windows 10 Enterprise 201	6 LTSB					
System protection	© 2016 Microsoft Corporat	ion. All rights reserved.			'indov	vs 1	()
Advanced system settings	System Processor: Installed memory (RAM): System type:	Intel(R) Core(TM) i7-6820HQ CPU 16.0 GB 64-bit Operating System, x64-bas	I @ 2.70GHz 2.71 GHz				
	Pen and Touch:	No Pen or Touch Input is availab	e for this Display				
	Computer name, domain, and Computer name: Full computer name: Computer description: Domain:	workgroup settings WinCC-Client WinCC-Client.WinCC-DC.local VM_SITRAIN_02 WinCC-DC.local			∳ CI	nange set	tings
	Windows activation Windows is activated Rea Product ID: 00380-20282-9	d the Microsoft Software License T 4736-AA229	erms		Chan	ge produ	ct key
See also Security and Maintenance							

2.8 Create a domain group

This section describes how to create a domain group. You can then assign it to different domain users.

- **Note** For larger architectures with many computers, it makes sense to divide groups and users into different organizational units.
 - Open the Server Manager on the domain server. To do this, enter the term "Server" in the Windows search. (1) Then click on the "Server Manager" entry. (2)



2. Click the "Tools" button in the Server Manager interface. (1) Click "Active Directory Users and Computers" in the context menu that opens. (2)



 A tool opens to customize the users and computers within the domain. Click on the server "WinCC-DC.local". (1) Create a new organizational unit by clicking on the "folder symbol with star" in the upper function bar. (2)

```
Figure 2-44
```


4. Enter a suitable name (1) in the window that appears for creating the organizational unit and confirm with a click on the "OK" button. (2)

Figure	2-45

New Object - Organizational Unit	×
Create in: WinCC-DC.Jocal/	
Name:	
WinCC-Unit	
Protect contr	
OK Cancel Help	

5. The new organizational unit is listed in the list of objects in the domain. For a better overview, it is recommended to separate users and groups into subordinate organizational units. To do this, you must select the "WinCC Unit" organizational unit and repeat steps 3 and 4. In this example, the sub-organizational units "WinCC Users" and "WinCC Groups" were created. Select the sub-organizational unit "WinCC-Groups" (1) and click on the group icon in the upper function bar. (2)

Figure 2-46

Active Directory Users and Computers	-	×
File Action View Help		
← → ⊿ ↓ □ × □ @ @		
Active Directory Users and Com Soved Queries Soved Querie		

6. Assign a suitable group name (here "WinCC operator") in the window that appears. (1) Leave the other settings at their default values. Confirm the creation of the group with the "OK" button. (2)

New Object - Group		×	
Create in: WinCC-DC.loc	al/WinCC-Unit/WinCC-Groups		
Group name:			
WinCC-Operator			
Group name (pre-Windo			
WinCC-Operator	WinCC-Operator		
Group scope	Group type		
O Domain local	 Security 		
Global	Obistribution		
OK Cancel			

Result

You have successfully created a domain group. You can see them in the suborganizational unit "WinCC Groups"."

2.9 Creating Domain Users and Assigning them to a Domain Group

Domain users are accounts that are managed by the domain server within the domain via rights and group policies. Within a domain, a domain user can log on to any computer with his personal credentials. Create a domain user with the following instructions.

 Open the Server Manager on the domain server. To do this, enter the term "Server" in the Windows search. (1) Then click on the "Server Manager" entry. (2)

2. Click the Tools button in the Server Manager interface. (1) Click "Active Directory Users and Computers" in the context menu that opens. (2)

3. Browse to the sub-organizational unit "WinCC User", which you have created in the section <u>2.8</u>, and select it with one click. (1) Click the icon for creating a new user in the upper toolbar. (2)

Figure 2-51

Active Directory Users and Computers	-	\times
File Action View Help		
← ⇒ ₂ ╦ ∦ □ X □ Q ⇒ 2 ₪ 3 % % ™ 7 2 %		
Active Directory Users and Com Saved Queries Saved Queries Description Solution S		

4. An assistant for creating a domain user opens. Enter the first name (1), last name (2) and logon name (3) that you want to assign to the user. Continue with the "Next" button. (4)

New Object - User		×
Create in:	WinCC-DC.local/WinCC-Unit/WinCC-User	
First name: Last name:	Markus Initials:	
Full name:	Markus Meister	
User logon name: MarkusMeister	@WinCC-DC.local	
WINCC-DC\	MarkusMeister	
	< Back Next > Cancel	

- 5. In the following window, enter a password (1) and confirm it by entering it repeatedly. (2) Check the option "Password never expires". (3) Continue with the "Next" button. (4)
- **Note** This is necessary if, for example, the WinCC server is to be operated permanently on a device with logged in users. Other domain users can update their passwords regularly and therefore do not need this option.

Figure 2-53

New Object - User	Х
Create in: WinCC-DC.Jocal/WinCC-Unit/WinCC-User	
Password:	
Confirm password:	
User must change password at next logon	
User cannot change password	
	1
< Back Next > Cance	1

6. Confirm the creation of the domain user with the "Finish" button. Figure 2-54

Create in: WinCC-DC.local/WinCC-Unit/WinCC-User When you click Finish, the following object will be created: Full name: Markus Meister User logon name: Markus Meister@WinCC-DC.local The password never expires.		t - User		>
When you click Finish, the following object will be created: Full name: Markus Meister User logon name: Markus Meister@WinCC-DC.local The password never expires.	8	Create in:	WinCC-DC.local/WinCC-Unit/WinCC-User	
Full name: Markus Meister Australia	When yo	u click Finish	n, the following object will be created:	
User logon name: Markus Meister@WinCC-DC.local The password never expires.	Full nam	e: Markus Me	eister	~
The password never expires.	User log	on name: Ma	arkusMeister@WinCC-DC.local	
	The pas	sword never	expires.	
				\sim
			(🖺))	
A Back Brick Cancel				

Result

You have successfully created a new domain user. You can continue assigning the user to a domain group.

Assigning a domain user to a domain group

This section shows how to assign a domain user to a domain group.

1. Right-click on a user (1) and select "Add to group..." from the context menu.

Figure 2-55					
Active Directory Users and Comp	outers			-	×
File Action View Help					
ka 🔿 🖄 📰 🔏 🗈 🗙 🛙] @ 🔒 🛛 🖬 💐	. 🐮 📷 🍸 🗾 🐍			
Active Directory Users and Com	Name	Туре	Description		
Soved Queres S	Markus Moster	Copy Add to a group Disable Account Reset Password Open Home Page Send Mail All Tasks Cut Delete Rename Properties Help	, ,		
Sends mail to the selection					

2. A window for assigning groups opens. In the input field, enter the name or part of the name of the group to which you want to assign the user. (1) Click the "Check Names" button. (2) If the group is recognized, the name of the group is underlined in the input field. If several groups are recognized, a selection window appears in which you must select the correct group. In this window you can also assign a user to several groups at the same time. Once you have added all groups in the input field, continue with the "OK" button.

Figure	2-56
--------	------

Select Groups	×
Select this object type:	
Groups or Built-in security principals	Object Types
From this location:	
WinCC-DC.local	Locations
Enter the object names to select (<u>examples</u>):	2
WinCC-Operator	Check Names
Advanced	OK Cancel

3. If the assignment of a user to the groups was successful, a confirmation dialog is displayed. Confirm your acknowledgment with the "OK" button.

Figure 2-57

Result

You have successfully assigned a domain user to a domain group.

Note In the properties of the users you can see which groups they are assigned to. You can also see in the properties of the group which users are assigned to it,

2.10 Adding a domain group to a local group

This section shows you how to include a domain group in a local group on the domain client. This gives all domain users who are members of the domain group the rights of the local group to the domain client.

This is necessary because only members of the local SIMATIC HMI group can access WinCC functions.

If you are not a member of the "SIMATIC HMI" group, you will be informed upon registration that you need this membership in order to be able to use "SIMATIC NET PC Software".

Note Additional information on user groups and access rights is available under the following link:

WinCC V7.5 https://support.industry.siemens.com/cs/ww/en/view/109760740/115064707339

WinCC V15.1 https://support.industry.siemens.com/cs/ww/en/view/109755202/116344382091

- 1. Log on to the domain client as a local administrator.
- 2. Open Computer Management by typing Computer Management in the Windows search bar and pressing Enter.
- Figure 2-59 Rest match Computer Management Desktop app Settings Administrative Tools Computer management Computer management Computer management

3. The computer management opens. Open the entry "Local Users and Groups" in the navigator of the computer management. Select the subordinate entry "Groups". (1) Double-click on the group "SIMATIC HMI". (2)

Figure 2-60

4. The current participants of the "SIMATIC HMI" group are listed here. Click the "Add" button.

SIMATIC HMI Prop	perties	?	×
General			
SIMAT	СНМІ		
Description:	SIMATIC HMI GROUP		
Members:			
Add	Remove Changes to a user's are not effective until user logs on.	group membersh the next time th	ip ie
	OK Cancel Apply	Hel	p

5. A window for adding group members opens. In the input field, enter the name of the group that you want to add to the "SIMATIC HMI" group. In this case, it is the domain group "WinCC Operator" that you created in the section <u>2.9</u>.

Figure 2-62

Select Users, Computers, Service Accounts, or Groups	×
Select this object type:	
Users, Service Accounts, or Groups	Object Types
From this location:	
WinCC-DC.local	Locations
Enter the object names to select (<u>examples</u>):	
WinCC-Operator	Check Names
Advanced	OK Cancel

6. To insert domain groups into local groups, you need administrator rights on the local computer and access to the domain. This is the only way you can view the internal domain structure. To do this, you must enter the login data of a domain user in the window that appears. Enter the domain administrator's credentials in the appropriate fields. (1) Confirm with the "OK" button. (2)

Figure 2-63

Windows S	Security	\times
Enter r	network credentials	
Enter yo WinCC-[ur credentials for an account with permissions for DC.local.	
For exan \user na	nple user, user@example.microsoft.com, or domain me	
8	Administrator	
8	Administrator	0
8	Administrator	9

7. After successful login, the login window disappears and the group, if recognized, is marked underlined in the input field. Press the "OK" button to add the group to the "SIMATIC HMI" group.

-	
Select Users, Computers, Service Accounts, or Groups	×
Select this object type:	
Users, Service Accounts, or Groups	Object Types
From this location:	
WinCC-DC.local	Locations
Enter the object names to select (examples):	
WinCC-Operator	Check Names
Advanced	Cancel

8. The domain group "WinCC Operator" now appears in the list of active group members of the "SIMATIC HMI" group. Click on "Apply" to confirm the changes. (1) Click the "OK" button to close the window. (2)

Figure 2-65

SIMATIC HMI Properties ?			?	\times	
General					
SIMATI	C HMI				
Description: SIMATIC HMI GROUP					
Members:					
Administrator	WinCC-Opera	ator			
Add	F C	Change are not user lo 2 Cancel	s gro til ti Appiy	pup member ne next time	ship the

Result

You have successfully added the domain group "WinCC Operator" to the local group "SIMATIC HMI". The domain users assigned to this group can log on to the domain client (local computer) and operate WinCC as usual.

Note When using WinCC in a domain, it is recommended to use the "SIMATIC Logon" software. This software makes it possible to use the user management of the local computer or domain controller for WinCC. In this way you simplify the creation and administration of users of your WinCC application.

More detailed information about "SIMATIC Logon" can be found under the following link: <u>https://support.industry.siemens.com/cs/ww/en/view/109749167</u>

3 Appendix

3.1 Service and support

Industry Online Support

Do you have any questions or need assistance?

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

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

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

Technical Support

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

www.siemens.com/industry/supportrequest

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We support you with our globally available training courses for industry with practical experience, innovative learning methods and a concept that's tailored to the customer's specific needs.

For more information on our offered trainings and courses, as well as their locations and dates, refer to our web page: www.siemens.com/sitrain

Note You will learn about the products used in this application example in the courses:

- SITRAIN course: SIMATIC WinCC Professional, SCADA in the TIA Portal (Article ID: • 109758618)
- SITRAIN entry course: WinCC V7 (Entry-ID: 109758633)
- SITRAIN advanced course: WinCC V7 and WinCC Options (Entry ID: 109758660)

Service offer

Our range of services includes the following:

- Plant data services
- Spare parts services .
- Repair services
- On-site and maintenance services
- Retrofitting and modernization services .
- Service programs and contracts

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

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

Industry Online Support app

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

https://support.industry.siemens.com/cs/ww/en/sc/2067

3.2 Links and Literature

Table 3-1

No.	Торіс	
\1\	Siemens Industry Online Support	
	https://support.industry.siemens.com	
\2\	Link to the entry page of the application example	
	https://support.industry.siemens.com/cs/ww/en/view/78346833	
\3\		

3.3 Change documentation

Table 3-2

Version	Date	Change
V1.0	05/2019	First version