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TeleService of a S7-1200 station via mobile network

CP 1242-7 V2, CP 1243-7 LTE, TCSB V3



https://support.industry.siemens.com/cs/ww/en/view/56720905

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1 Task

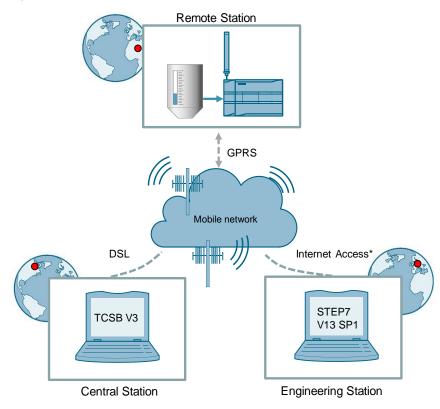
Introduction

The infrastructure of a plant contains a SIMATIC S7-1200 sub-station. The substation communicates wirelessly with a central station via the internet. Additionally, a service operator monitors the sub-station and communicates with it via remote access.

The communication is realized via the TeleControl Server Basic V3 (TCSB V3) software installed in the central station.

Overview of the automation task

The following figure provides an overview of the automation task. Figure 1-1



*Possible Access Methods:

- Access via UMTS (e.g. USB stick)
- Access via DSL (e.g. router with integrated DSL modem)

Requirements

This application example is intended to meet the following requirements:

- Via remote access, the service operator monitors the status of the connected remote stations.
- Via remote access, the service operator downloads updated program data and modifies any parameters.

The remote access is done via the internet and independent from the internet service provider.

2.1 Overview

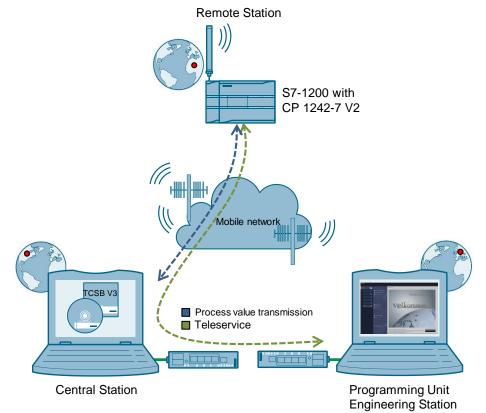
2 Solution

2.1 Overview

Schematic layout

The figure below shows a schematic overview of the most important components of the solution.

Figure 2-1



Setup

With TCSB V3, the central and the remote station can communicate with each other via the mobile network. The central station is connected with the internet via a DSL router.

The remote maintenance (TeleService) requires an uninterrupted data transfer between the remote station and the engineering station via the GPRS network. The connection between the engineering station and the GPRS network is established by TCSB V3.

The engineering station is connected to the internet with the following alternative technologies:

- UMTS (e. g. USB-Stick)
- Router (e. g with integrated DSL-modem)

2 Solution

2.1 Overview

Note The connection between the engineering station and the GPRS network can also be established via a TeleService gateway.

The TeleService gateway only serves the "TeleService" function via the mobile network. With the TeleService gateway, no connections to remote stations can be monitored and no process data can be transferred (see $\frac{5}{5}$).

The "TS Gateway" software is included in the scope of delivery of the CP 1242-7 GPRS V2.

Remote Station

"Remote Station" refers to a spatially removed remote station with a SIMATIC S7-1200 CPU and a CP 12427 GPRS V2.

Central station

"Central station" refers to a central control unit (PC, IPC or comparable device) with internet connection, onto which the TCSB V3 software is installed.

Engineering Station

Engineering Station (ES) refers to a programming device, notebook or a comparable device with software component STEP 7 V13 SP1 and an existing internet connection.

Note In this application example, central station and engineering station have been integrated into one device.

Advantages

The solution offers you the following advantages:

- TCSB V3 enables economic data communication between remote stations and the central station.
- World-wide access to the remote station is possible via the internet.
- The application example can also be used for the CP 1243-7 LTE.
- The core application areas are industrial applications where the objective is to send data in a cost-effective way on a wireless basis, for example in water treatment plants, for water purification or in pumping stations.

Topics not covered by this application

This application example does not contain a description of:

- SIMATIC NET TeleControl Server Basic (see also <u>3</u>)
- LAD/ FBD/ STL/ SCL programming languages

Basic knowledge of these topics is assumed.

2.2 Hardware and software components

2.2 Hardware and software components

2.2.1 Validity

This application example is valid for the following software versions:

- CP 1242-7 V2
- CP 1243-7 LTE
- STEP 7 V13 SP1
- S7-1200 CPU V4.1 or higher
- TCSB V3 SP1

2.2.2 Components used

This application example was created with the following components:

Hardware components of station 1

Table 2-1

Component	Qty	Article number	Note
S7-1200 PM1207	1	6EP1332-1SH71	Power supply
SIMATIC S7-1200 CPU 1217C DC/DC/DC	1	6ES7217-1AG40-0XB0	Any S7-1200 CPU as of V4.1 can be used.
COMMUNICATION PROCESSOR CP 1242-7 V2	1	6GK7242-7KX31-0XE0	Alternatively, a CP 1243-7 LTE can also be used: CP 1243-7 LTE EU (6GK7243-7KX30-0XE0) CP 1243-7 LTE US (6GK7243-7SX30-0XE0)
Antenna ANT794- 4MR	1	6NH9860-1AA00	GSM quad-band and UMTS and LTE (Europe).
SIMATIC memory card	1	6ES7954-8LF01-0AA0	Memory card for the S7-1200 CPU (optional).

Accessories

Table 2-2

Component	Qty	Article number	Note
SIM card	1	Available from your mobile communications provider	Activated for data communication.
DSL router and modem	2	Specialist retailers	SCALANCE M816
Fixed IP address for DSL (broadband) connection	2	Available from your provider.	-
or DynDNS			

2.2 Hardware and software components

Software components

Table 2-3

Component	Qty	Article number	Note
STEP 7 Professional V13 SP1	1	6ES7822-1AA03-0YA5	STEP 7 Basic can also be used.
Software TCSB V3 SP1	1	6NH9910-0AA21-0AA0	A maximum of eight connectable stations. The product is available in further stages of development and licenses, (see document \ <u>3</u> \).

Example files and projects

The following table contains all files and projects used in this example.

Table 2-4

Component	Note
56720905_S7_1200_TeleService_PROJ_V10.zip	This zip file includes:The STEP 7 V13 projectTCSB project
56720905_S7_1200_TeleService_DOC_V10_de.pdf	This document.

3.1 Connection buildup between remote station and central station via TCSB V3

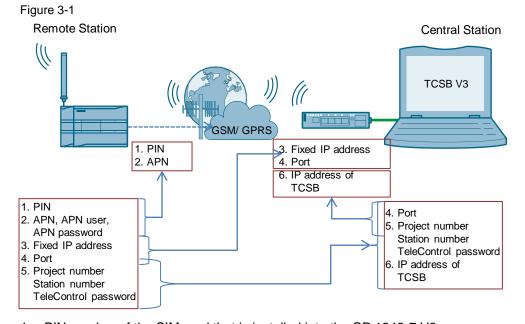
3 Function principle

This application example shows the following core elements:

- Configuration of a S7-1200 station with CP 1242-7 V2 for communication with the central station via mobile communications network and the internet.
- Configuration of a S7-1200 station with CP 1242-7 V2 for remote maintenance (TeleService) of the remote station that is operated by a service operator.
- How the remote station can be maintained by a service operator.

3.1 Connection buildup between remote station and central station via TCSB V3

The following diagram shows the complete system with all parameters required for communication between the remote station and the central station. In this application example, the connection is established via TCSB V3.



 PIN number of the SIM card that is installed into the CP 1242-7 V2. The CP 1242-7 V2 logs in automatically at the GSM network of the provider,

given that the PIN number of the installed SIM card has been recognized as valid.

Note The SIM card's PIN number must be enabled.

2. APN

The CP 1242-7 V2 logs in at the GPRS access point of the mobile service provider using the APN address, APN user name and APN user password. An IP address from the address area of the provider is assigned to the CP 1242-7 V2. It is now accessible via internet and can send IP-based requests to other participants on the internet.

3.1 Connection buildup between remote station and central station via TCSB V3

- Note The APN user name and the APN user password are provider-dependent
 - 3. Fixed IP address

The CP 1242-7 V2 sends a connection request to the central station. The static IP address of the internet connection for accessing the central station is required.

4. Port

As soon as the connection request has been received by the router of the local IT network of the central station, it will be forwarded to the central station with the relevant port number.

5. Project number, station number and TeleControl password

TCSB V3 checks the connections request of the CP 1242-7 V2, using the data (project number and station number) stored in the configuration.

To authenticate the remote station, an additional password is requested.

If the connection request is evaluated successfully the TCSB V3 updates the internal routing table entry related to this remote station and the corresponding current IP address of the CP 1242-7 V2. A connection for the transmission of TCP/IP packages is established between the CP 1242-7 V2 of the remote station and the central station.

6. IP address of TCSB V3

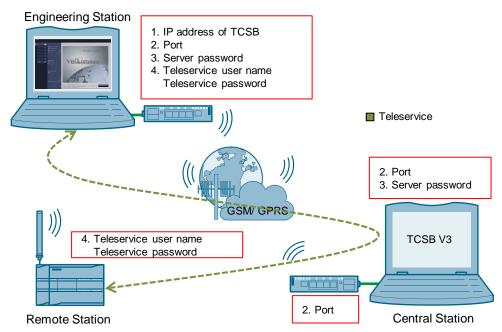
3.2 Teleservice connection between remote station and engineering station

3.2 Teleservice connection between remote station and engineering station

As engineering station and remote station always communicate via the central station, the central and the remote station need to be connected via the TCSB V3 in this application example. The TeleService connection for loading project or program data or querying diagnostic data is directly integrated in the main connection.

The graphic below shows the complete system with all parameters required for a teleservice communication between remote station and engineering station in addition to the parameters from <u>Figure 3-1</u>.

Figure 3-2



1. IP address of TCSB V3

The engineering station sends a connection request to the central station. For this, the IP address of the TCSB V3 is needed, via which the TeleService connection between engineering station and remote station is run.

2. Port

As soon as the connection request has been received by the router of the local IT network of the central station, it will be forwarded to the central station with the relevant port number.

3. Server password

The TCSB V3 checks the connection request of the engineering station. This password is used to authenticate the engineering station in the TCSB.

If this remote station is entered in the TCSB V3 and online, the teleservice request from the engineering station to the remote station is forwarded on the basis of the existing TCP/IP connection.

3.2 Teleservice connection between remote station and engineering station

4. TeleService user name and password

For protection against an unauthorized access to the CP 1242-7 V2, the TeleService user name and password are requested during the start-up of the TeleService session.

If the teleservice connection request is validated, diagnostic and program data can then be transferred between the remote station and the engineering station. The process value communication is not affected by this.

4.1 Configuring the remote station

4 Configuration and Settings

The configuration is done with the following configuration tools:

- STEP 7 V13 SP1:
 - Configuration of a remote station (S7-1200 CPU with CP 1242-7 GPRS V2) for data communication with the central station via mobile communications network and the Internet
 - Configuration of a remote station (S7-1200 CPU with CP 1242-7 GPRS V2) for remote maintenance (TeleService) by a service operator
- TCSB V3:
 - create and configure a project
 - create and configure connections
 - configure general parameters

4.1 Configuring the remote station

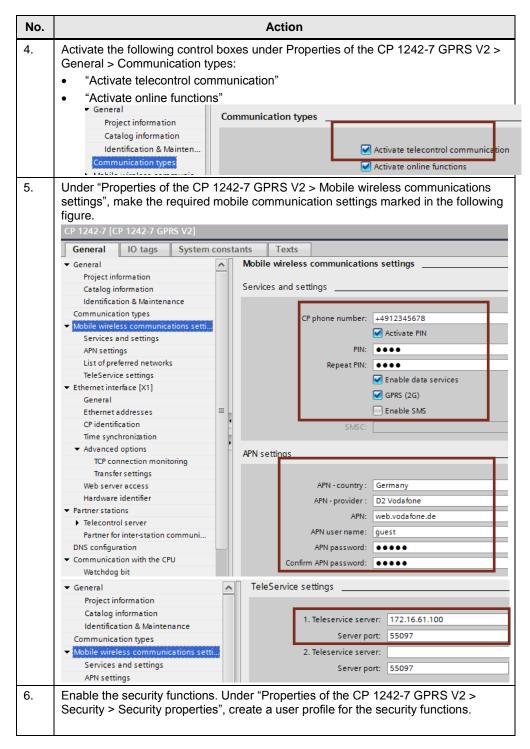
The table below shows how to configure a S7-1200 station with the with the CP 1242-7 GPRS V2 for data communication with the central station via mobile communications network and the Internet and for remote maintenance (TeleService).

Table 4-1

No.	Action
1.	Create a STEP 7 V13 project.
2.	Add the S7-1200 CPU (as of V4.1) for the SIMATIC station 1.
3.	Add the CP 1242-7 GPRS V2 to the station.
	Communications modules
	🕶 🛅 Industrial Remote Communication
	CP 1243-1
	CP 1243-1 DNP3
	CP 1243-1 IEC
	✓ ☐ CP 1242-7 GPRS
	GK7 242-7KX30-0XE0
	6GK7 242-7KX31-0XE0
	CP 1243-7 LTE
	CP 1243-8 IRC

Note The project included in this application example has already been configured for you. Chapter 4 explains the implemented work steps again.

4.1 Configuring the remote station



4.1 Configuring the remote station

No.	Action
7.	 Under "Properties of the CP 1242-7 GPRS V2 > Partner stations > Connection to partner", configure the CP parameters required to configure the TCSB V3: Partner IP address (static IP address / provider-dependent) Partner port
	Connection to partner
	IP address: "WAN-IP-ADDRESS" Connection monitoring TCP connection monitoring time: 180 s
	TCP keepalive monitoring time: 10 s
	Connection mode: Permanent Connection establishment: Connection establishment by CP
	connection establishment.
	Partner port: 55097
	 "Properties > Security > CP identification" Project number Station number Telecontrol password (here "Teleservice").
	Project number: 1 Station number: 1
	Access ID: 200165
	Telecontrol password:
	Repeat password:
	The parameters assigned here must be identical to the parameters in TCSB.

4.1 Configuring the remote station

No.		Action	
8.	 Adopt the global security settin Under "Global security set user-defined role. 		r the TeleService access. nent > Roles", create a new
	Project tree	CP1242-7_V2_Teleservice → Glo	bal security settings 🕨 User management
	Devices	<copy from="" rights=""></copy>	
		Roles	
	Name ▼ CP1242-7_V2_Telesenvice Add new device Devices & networks CP1242-7_V2_Telesenvice [CPU 1217C	Role Administrator Standard Diagnose Remote-Access	Description System-defined "Administrator" role System-defined "Default" role System-defined "Diagnostics" role System-defined "Remote access" role
	Global security settings	administrator(radius)	System-defined role "Administrator (RADIUS)"
	Certificate manager	teleservice	User-defined role
	Bill Firewall G VFN groups C: NTP C: ADUS		
	 Devices Devices Add new device Add new device Add new device Berkes & networks Berkes & networks Berkes & networks User name: "SiemensOS" Password: "Teleservice" Role: "teleservice" Under "Global security sett role", activate the right "User 	2-7_V2_Teleservice → Global security se ser User name Password SiemensOS add assure to tings > User managen se TeleService":	Authentication method Role Passwort teleservice
	Devices	leservice → Global security settings → User	nanagement
	Copy rights from> Roles		
	Name Bole Bole CP12427-V2_Telesenvice Administrative Bole Devices & networks GD2427-V2_Telesenvice (CPU 1217C GD2427-V2_Telesenvice (System-defined "Default" role System-defined "Diagnostics" System-defined "Romote acces or(radius) System-defined role "Administ System-defined role "RADIUS" User-defined role	30 min ole 30 min s* role 30 min
	CONTRACT CONTRACT CONTRACT CONTRACT CONTRACT	List of rights	Conice
	Common data Common data CP 1242-7	Use TeleService	TeleService
9.	Load the project data to the sta	ation via your PROFIN	ET interface.

4.2 Configuring the TCSB V3

4.2 Configuring the TCSB V3

Table 4	4-2
No.	Action
1.	Under "Windows Start menu > All Programs > Siemens Automation > SIMATIC > TCS Basic > Config and Monitoring Tool", start the configuration and monitoring interface of TCSB (CMT).
2.	After the program has started, the login dialog of the CMT appears.
	CMT Logon
	Enter user name and user password
	User name: administrator Password: •••••••••••
	TCSB server: 127.0.0.1
	Logon
	Enter a configured user name or keep the default user name.
	 Enter the respective password. Enter the IP address or the TeleControl server name resolved by DNS:
	- Computer name
	or - IP address (default IP address: 127.0.0.1)
	Default logon data:
	User name: administrator Password: 0000
3.	Create a new project:
	In the navigation pane, select the entry "Projects".
	 In the commands bar, click on the "Add" button. The new project appears in the navigation pane and in the object area.
4.	Configure the new project:
т.	Select the project in the navigation pane or object area and click on the "Settings" tab.

4.2 Configuring the TCSB V3

No.	Action					
5.	Fill in the parameters "Project name", "Project number" and "Server password" of the project. Click on "Create".					
	Create a project					
	General					
	Project name: Project number: 2 SMS gateway provider: T-Mobile Server password: Repeat password: Comment:					
	Note: The server password is required for the TeleService access. In this example, the server password is "Teleservice".					
6.	"Save & activate" the configuration to activate the configuration data for connection establishment.					
	Project 💙 Discard 🛃 Save & activate 💌					
	s System variables Activated parameters					
7.	 Create a new connection for station 1 by following the steps below: In the navigation pane, select a project for which you want to create a new connection. 					
	 In the command bar, select the required connection type from the "Connection type" drop-down list. 					
	 In the object pane, select the "Add" button from the command bar. Select the CP 1242-7 V2. 					
	Connection / Edit Add V X Delete Impo					
	Configure connection Station CP1243-1					
	General CP1243-7					
	Communication monitoring CP1242-7 V2 name:					
	Monitoring of the transferre 57-300 number:					
	MD720-3 / MD720 trol password:					
	MD720(Secure) nt: 57-200					
	MD720-3 / MD720					
	MD720(Secure)					
	The new connection appears in the object area.					

4.2 Configuring the TCSB V3

No.	Action		
8.	Save the changes and activate the project.		
	Project 🏷 Discard 🚽 Save & activate 💌		
	s System variables Activated parameters Y		
9.	Select the connection and in the object pane, select the "Connections" tab. In the parameter area, various parameter groups are displayed for this connection.		
10.	In the "General" parameter group, enter the parameters for the remote station:		
	Station name Station number		
	Telecontrol password: Teleservice		
	Configure connection Station 1/		
	General General General		
	Cyclic services Station name: Station 1		
	Monitoring of the transferred data volume Station number: 1 Slot: 101 Telecontrol nassword:		
	Telecontrol password: •••••• Repeat password: ••••••		
11.	Note: The parameters assigned here must be identical with the parameters in the STEP 7 V13 project.		
	Under "TCSB system > "TCM" tab > General > Address TCM 1", configure the IP address and the port of the Telecontrol server. ("TCSB system > "TCM" tab > General> Address TCM 1").		
	TCSB system		
	TCM Database		
	General		
	Address TCM 1: 172.16.62.100		
	Address TCM 2: Address TCM 1 (IPv6): USER-PC		
	Address TCM 2 (IPv6):		
	Listener ports		
	MSC listener port: 26862		
	Control port: 26861		
	Data port: 26860		
	TCSB port: 26864		
12.	Save the changes and activate the project.		
	Project Discard Save & activate 💌		
	s System variables Activated parameters		

5.1 Installing the hardware

5 Installation and Commissioning

5.1 Installing the hardware

The necessary hardware components are listed in Chapter 2.2.

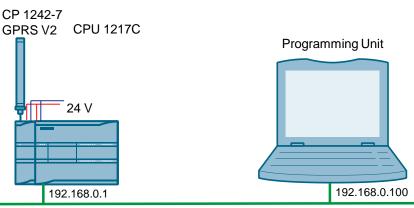
Note The installation guidelines of all components have to be observed.

NOTICE Before you switch on the power supply, complete and check the installation!

5.1.1 Hardware setup of the remote station

The figure below shows the hardware setup of the remote station with the central station and the engineering station.

Figure 5-1



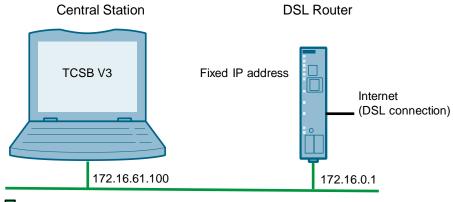
Industrial Ethernet

No.	Action
1.	Insert your SIM card into the CP 1242-7 GPRS V2.
2.	Connect the individual modules to a suitable module rack.
3.	Connect the CPU with the CP 1242-7 GPRS V2.
4.	Connect the antenna to the CP 1242-7 GPRS V2.
5.	Connect the engineering PG to the PROFINET interface of the S7-CPU. Note:
	This connection is only required while the project data are loaded. Remote maintenance occurs via the Internet.
6.	Connect the CPU 1217C and the CP 1242-7 GPRS V2 to a 24 V DC power source.
7.	Connect the DC power source to the power grid (230 V AC).

5.1 Installing the hardware

5.1.2 Hardware setup of central station

Figure 5-2 below shows the hardware setup of the central station. Figure 5-2



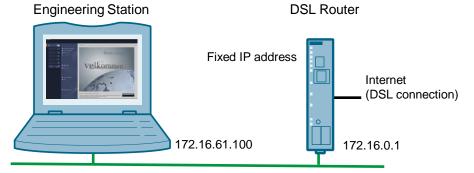
Industrial Ethernet

Table 5-2

No.	Action
1.	Connect your PC on which TeleControl Server Basic runs to the router via Ethernet.
2.	If the DSL (broadband) modem is not integrated in the router, connect the router to the DSL modem.

5.1.3 Hardware setup of the engineering station

The figure below shows the hardware setup of the engineering station. Figure 5-3





No.	Action					
1.	Establish an internet connection at your engineering station.					
	Possible access methods:					
	Access via UMTS (e. g. USB-Stick)					
	Access via DSL (e. g router with integrated DSL-modem).					

5.2 Installing the software

Note The engineering station and the central station are realized with a single device in this application example.

5.2 Installing the software

Engineering PC/PG

Table 5-4

No.	Action	Remark
1.	Install STEP 7 V3 SP1.	Follow the instructions of the installation program.

PC/PG as central station

No.	Action	Remark
1.	Install TeleControl Server Basic V3 SP1	Follow the instructions of the installation program.

5.3 Installing the example project

5.3 Installing the example project

Unzip the "*zip" file "56720905_S7_1200_TeleService_PROJ_V10". This folder contains the following files:

- The archived STEP 7 project "56720905_S7-1200_TeleService_CODE_V10.zip".
- The TCSB configuration file "56720905_S7-1200_TeleService.bak".

5.4 Commissioning

5.4.1 Setting the IP addresses

The following table shows the configured IP addresses.

Table 5-6

Module	IP address	Subnet mask
Station 1: CPU 1217C DC/DC/DC	192.168.0.1	255.255.255.0
Programming unit	192.168.0.100	255.255.255.0
PC/PG central station (TCSB)/ Engineering Station	172.16.61.100	255.255.0.0
LAN IP address of router	172.16.0.1	255.255.0.0

5.4.2 Assigning the IP address to the engineering station

Change the network settings of your engineering station as shown in the following table.

No.	Action				
1.	Open the "Internet Protocol (TCP/IP) Properties" via Start > Settings > Network Connection > Local Connections. ("Start > Settings > Network Connection >Local Connections").				
2.	In the open window, select the Internet Protocol (TCP/IP) and open Properties.				
3.	Fill in the boxes as shown in the figure. Close the dialog box with "OK".				

Та	ble	5-7

5 Installation and Commissioning

5.4 Commissioning

No.	Action
4.	If your PG has an IWLAN interface, disable it.

5.4.3 Configuring the DSL router

For the configuration, no specific router will be discussed as the screen forms will differ from router to router.

Note To configure the router, you have to assign an IP address to your PG/PC that is in the router's internal network.

Table	5-8
Iable	J-0

No.	Action				
1.	Open the configuration user interface of the router.	This can be additional software, "Telnet" or a web page.			
2.	Enter the connection data for your Internet connection.	Login, password, etc. you received from your provider.			
3.	Enter your DNS server.	You will receive the address together with your access data.			
4.	Specify a LAN IP address for the router.	In this example: "172.16.0.1"			
5.	Forward the partner port.	TCP port 55097 to port 55097 of 172.16.61.100.			

5.4 Commissioning

5.4.4 Inserting a backup copy of the "56720905_S7 1200_TeleService.bak" database into TCSB V3

			Action				
Stop the existing database by stopping the service "TSC Basic Database Ser							
			sk Manager in the "S				
Windows Task I	Manager					- 0	x
File Options Vi	iew Help	_			_		_
		erformanc	e Networking Users				
Applications Proce	esses ocrvices pe	errormanc	e Networking Osers				
Name	*	PID	Description	Status	Group		
AdobeARMserv	vice	1592	Adobe Acrobat Update Service	Runn	N/A		
AeLookupSvc			Application Experience	Stop	netsvcs		
ALG			Application Layer Gateway Se	Stop	N/A		
almservice		1616	Automation License Manager	Runn	N/A		
AMPPALR3		8224	Intel® Centrino® Wireless Blu	Runn	N/A		
AppHostSvc		1648	Application Host Helper Service	Runn	apphost		
AppIDSvc			Application Identity	Stop	LocalServic.		
Appinfo AppMgmt		408	Application Information Application Management	Runn	netsvcs		
aspnet state			ASP.NET State Service		netsvcs N/A		
AudioEndpointE	Builder	608	Windows Audio Endpoint Builder		LocalSyste.		
AudioSrv		404	Windows Audio		LocalServic.		
AxInstSV			ActiveX Installer (AxInstSV)	Stop	AxInstSVG.		
BDESVC			BitLocker Drive Encryption Ser	Stop	netsvcs		
BFE			and the second sec				
Q. Services		1488	Base Filtering Engine	Runn		Services	
O Services File Action View				Runn		Services	
O Services File Action View	Q 📑 🛛 🖬 🕨			Runn		Services	
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Q Services File Action View ⇐ ➡ [re] [b] (2)	Bervices (Local) CS Basic DatabaseSi Stop the service Restart the service Description: Database Service Inter	ervice	Name SPP Notification Service SQL Active Directory Helper SQL Server (TCSB) SQL Server Agent (TCSB) SQL Server VS Writer SQL Server VS Writer SQL Server VS Writer SQL Server VS Writer SQL Server VS Writer	Description Provides So Enables inte. Provides St. Provides SQ. Provides SQ. Provides SQ. Discovers n Maintains a	Status Status Started Started Started	Startup Type Manual Disabled Automatic Disabled Automatic Manual Manual	Loc Loc Net Loc Loc Loc Loc Loc
Q Services File Action View ⇐ ➡ [re] [b] (2)	Bervices (Local) CS Basic DatabaseSi Stop the service Restart the service Description: Database Service Inter	ervice	Name SPP Notification Service SQL Active Directory Helper SQL Server (TCSB) SQL Server Agent (TCSB) SQL Server VSS Writer SQL Server VSS Writer SQL SDP Discovery	Description Provides So Enables inte. Provides to Provides SQ. Provides SQ. Provides SQ.	Status Status Started Started Started Started	Startup Type Manual Disabled Automatic Disabled Automatic Manual	Loc Loc Net Net Loc Loc Loc Loc
Q Services File Action View	Bervices (Local) CS Basic DatabaseSi Stop the service Restart the service Description: Database Service Inter	ervice	Name SPP Notification Service SQL Active Directory Helper SQL Server (TCSB) SQL Server Agent (TCSB) SQL Server Browser SQL Server VSS Writer SSDP Discovery SSDP Discovery System Event Notification S	Description Provides So Enables inte. Provides sto. Executes jo Provides SQ. Provides SQ. Provides Tab. Enables Tab. Enables Tab.	Status Started Started Started Started Started Started	Startup Type Manual Disabled Automatic Disabled Automatic Manual Automatic Manual Automatic Manual	Log ^ Loc Net Net Loc Loc Loc Loc Loc Loc
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Q Services File Action View ⇐ ➡ [re] [b] (2)	Bervices (Local) CS Basic DatabaseSi Stop the service Restart the service Description: Database Service Inter	ervice	Name SPP Notification Service SQL Active Directory Helper SQL Server (TCSB) SQL Server Agent (TCSB) SQL Server VSS Writer SQL S	Description Provides So Enables inte. Provides sto. Executes jo Provides SQ. Provides SQ. Provides SQ. Enables a us. Provides SQ. Enables a us. Provides SQ. Enables a us. Provides SQ.	Status Status Started Started Started Started Started Started Started Started Started	Startup Type Manual Disabled Automatic Disabled Automatic Manual Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic Automatic	Log ^ Loc Net Net Loc Loc Loc Loc Loc Loc Loc Loc
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Q Services File Action View ⇐ ➡ ि ि ि ि ि	Bervices (Local) CS Basic DatabaseSi Stop the service Restart the service Description: Database Service Inter	ervice	Name SPP Notification Service SQL Active Directory Helper SQL Server (TCSB) SQL Server Agent (TCSB) SQL Server VSS Writer SSDP Discovery Superfetch System Event Notification S Table PC Input Service Task Scheduler TICS Basic Database Task Scheduler Tics Basic Database Themes Theed Ordering Se TraceConceptX Treed Micro Unaut	Description Frovides So., Enables inte. Provides sto. Executes jo Provides SQ. Provides SQ. Provides SQ. Provides SQ. Enables Tab. Enables Tab. E	Status Status Started Started Started Started Started Started Started Started Started Started Started	Startup Type Manual Disabled Automatic Disabled Automatic Manual Automatic Automatic Automatic Automatic Manual Automatic Automatic Automatic Manual Automatic Manual Automatic Manual	Log ^ Loc Net Net Loc Loc Loc Loc Loc Loc Loc Loc Loc
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5 Installation and Commissioning

5.4 Commissioning

No.	Action				
2.	As administrator , start the SQL Server Management Studio under "Start > All Programs > Microsoft SQL Server 2008 R2 > SQL Server Management Studio".				
	Windows Update Windows Update Accessories Accessories Intel PROSet Wire Java Java Developmer Microsoft SQLS Microsoft SQLS Properties SQL Server Configuration SQL Server Configuration				
	The "Connect to server" dialog opens with the following settings:				
	 Server type: Database Engine Server name: <pc name="">\TCSB</pc> 				
	Authentication: Windows Authentication				
3.	Keep all settings and click on "Connect".				
	Connect to Server				
	Server type: Database Engine Server name: USER-PC\TCSB Authentication: Windows Authentication User name: User-PC\User Password:				
	Connect Cancel Help Options >> SQL Server Management Studio opens with the database's				
	object navigation.				
4.	Select the "Databases" item. Microsoft SQL Server Management Studio File Edit View Debug Tools Window Co Diject Explorer Connect P P P P P P P P P P P P P P P P P P P				

5 Installation and Commissioning

5.4 Commissioning

No.	Action
5.	Select the context menu (right mouse button) "Restore Database".
6.	 The "Restore Database - TCSB" dialog opens. In the "Destination for restore" field, select the database ("To database") "TCSB". In the "Source for restore" field, activate the option ("From device") and open the "Specify Backup" dialog via the "" button. Select the "56720905_S7-1200_TeleService.bak" backup copy by first opening the file browser using the "Add" button.
7.	In the "Restore Database - TCSB" dialog, select the selected "backup set" in the "Restore" column and click on "OK".
8.	Click "OK" to close Management Studio.
9.	Restart the computer.
υ.	

5.4 Commissioning

5.4.5 Configuring the IP address and ports of TCSB V3

Table 5-10 No. Action 1. Start the configuration and monitoring interface of TCSB (CMT) under "Windows Start menu > All Programs > Siemens Automation > SIMATIC > TCS Basic > Config and Monitoring Tool": 2. After the program has started, the login dialog of the CMT appears. CMT Logon Enter user name and user password User name: administrator ••••• Password: TCSB server: 127.0.0.1 Logon User name: "administrator" • Password: "administrator" Enter the IP address or the TeleControl server name resolved by DNS: - Computer name or - IP address (default IP address: 127.0.0.1) 3. Configure the IP address and the ports of the TeleControl server: "TCSB system > "TCM" tab > General > Address TCM 1" ("TCSB system > "TCM" tab > General > Address TCM 1"). TCSB system TCM Database General Address TCM 1: 172.16.61.100 Address TCM 2: Address TCM 1 (IPv6): USER-PC Ŧ Address TCM 2 (IPv6): Listener ports MSC listener port: 26862 IPT listener port: 55097 Control port: 26861 26860 Data port:

TCSB port: 26864 4. Save the changes and activate the project. 🏷 Discard Project 🚽 Save & activate System variables Activated parameters 5. Restart the computer.

5.4 Commissioning

5.4.6 Loading the remote station

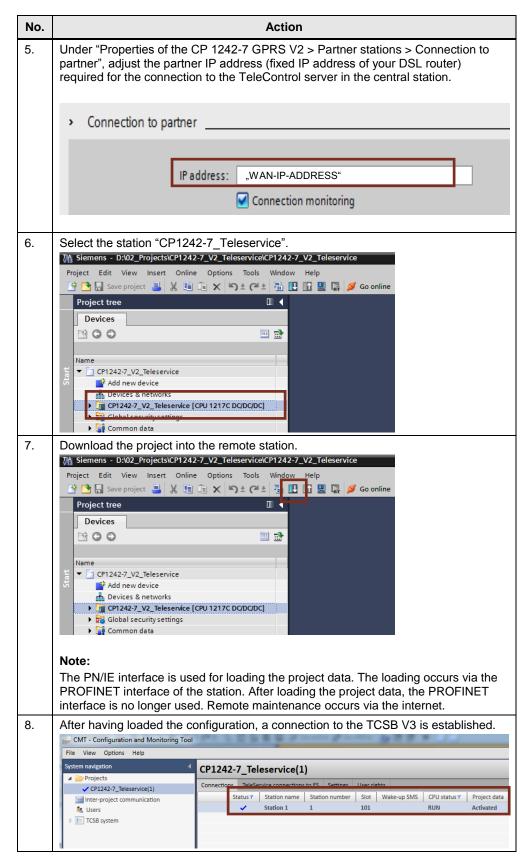
Prerequisites

- There is an existing connection between your engineering station and the CPU (e. g. via the PROFINET interface).
- The CPU must be in an operation mode that allows loading.
- Prior to loading the user program, a general reset of the CPU should be performed to ensure that none of the "old" blocks still exist on the CPU.

No.	Action					
1.	Unzip the project "39863979_S7-1200_TeleService_CODE_V10.zip".					
2.	Open the STEP 7 V13 project "CP1242-7_V2_Teleservice.ap13".					
3.	Activate the security functions of the CP under "CP1242-7_V2_Teleservice > Global security settings > User login":					
	Password: "administrator"					
4.	Under "Properties of the CP 1242-7 GPRS V2 > Mobile wireless communications settings", adjust the mobile communication settings of the CP 1242- 7 GPRS V2: • PIN • APN settings • Teleservice settings	Services and settings CP phone number: PIN: •••• Repeat PIN: •••• Enable data services GRS (2G) Enable SMS SMSC: APN settings APN - country: Germany APN - provider: D2 Vodafone APN: web.vodafone.de APN user name: guest APN password: •••••				
		ints Texts				
		TeleService settings 1. Teleservice server: 172.16.61.100 Server port: 55097 2. Teleservice server: Server port: 55097				

5 Installation and Commissioning

5.4 Commissioning



6.1 Polling diagnostic data from the station

6 Operating the Application Example

The following chapters show how to wirelessly monitor and control the remote station. An existing connection of the remote station to the central station is required for this (TCSB V3) (see <u>Table 5-11, step no. 8</u>).

6.1 Polling diagnostic data from the station

Table 6-1

No.	Action
1.	Make sure that the engineering station is connected to the internet.
	Note Check the internet connection at your engineering station with the help of the internet browser by calling up a random internet page.
2.	Select the station "CP1242-7_V2_Teleservice" and establish the online connection.
	Project Edit View Insert Online Options Tools Window Help
	Go online
	Devices
	Name
	T CP1242-7_V2_Teleservice
	S Add new device
	CP1242-7_V2_Teleservice [CPU 1217C DC/DC/DC]
	Clobal security sectings
	Common data
3.	As PG/PC interface type, select "TeleService via mobile wireless" and as PG/PC interface "Mobile wireless TeleService board".
	Go online
	Configured access nodes of "CP1242-7_V2_Teleservice"
	Device Device type Slot Type Address Subnet
	CP1242-7_V2_Telese CPU 1217C DC/D 1 X1 PN/IE 192.168.0.1 CP 1242-7 CP 1242-7 GPRS V2 101 X1 PN/IE Not configured PN/IE_1
	CP 1242-7 GPRS V2 101 Mobile wireless 200165
	Type of the PG/PC interface:
	PG/PC interface: Mobile wireless TeleService board
4.	Establish the TeleService connection between engineering and remote station by
	clicking on the mobile phone symbol.
	Go online
	Configured access nodes of "CP1242-7_V2_Teleservice" Device Device type Slot Type Address Subnet
	CP1242-7_V2_Telese CPU 1217C DC/D 1 X1 PN/IE 192.168.0.1
	CP 1242-7 CP 1242-7 GPRS V2 101 X1 PN/IE Not configured PN/IE_1 CP 1242-7 GPRS V2 101 Mobile wireless 200165
	Type of the PG/PC interface:
	PG/PC interface: Mole wireless TeleService board V
L	

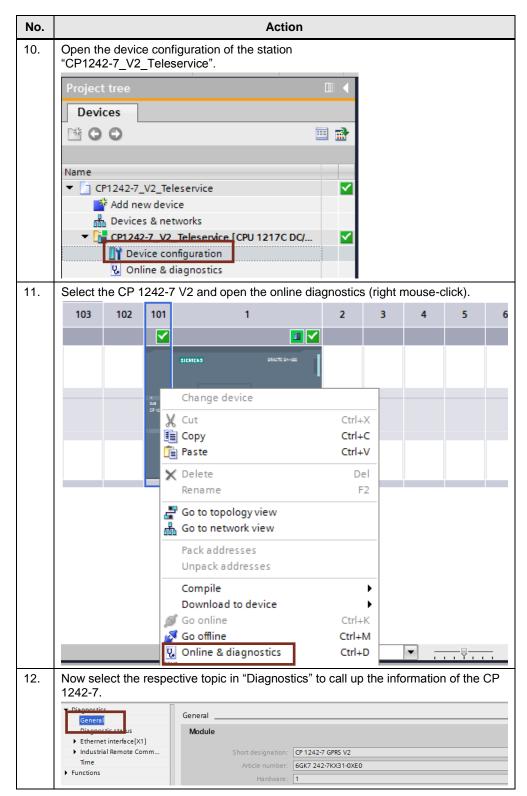
6.1 Polling diagnostic data from the station

No.	Action
5.	Enter the following values and then click on "Connect": IP address of the server (172.16.61.100) The server password (Teleservice) The port (55097) The TeleService user name (SiemensOS) The TeleService password (Teleservice) Establish mobile wireless remote connection
	Component is on this PC Component is in network or Internet IP address or host name: 172.16.61.100 Port: 55097 Own server password:
	Authentication for TeleService access to station: TeleService user name: SiemensOS TeleService password: ********* Remote station: Access ID: CP 1242-7: 200165
	Status: Not connected Close
6.	The TeleService connection has been established. Status: Connected Disconnect Close

6.1 Polling diagnostic data from the station

No.			Act	ion			
7.	Start searching	for accessible	participants	bv cl	ickina on "S	tart searcl	า".
	Extended download to		la en e elle en ree				×
		Configured access not	des of "CP1242-7 V2	Teleservic	·e'		
		Device		Slot		ddress	Subnet
		CP1242-7_V2_Telese	. CPU 1217C DC/D	1 X1	PN/IE 1	92.168.0.1	
		CP 1242-7	CP 1242-7 GPRS V2			lot configured	PN/IE_1
			CP 1242-7 GPRS V2	101	Mobile wireless 2	00165	
			Type of the PG/PC inte	rface:	📒 TeleService via m	obile wireless	•
			PG/PC inte	rface:	💹 Mobile wireless T	eleService board	• 🐑 💽
		Conn	nection to interface/su	bnet: [Direct at slot '101'		▼ 💎
			1st gat	eway: [▼ 💎
		Compatible devices in	target subnet:			Show all compatib	le devices
		Device	Device type	Туре	Addres		Target device
	no	-		PN/IE	Access	address	-
	F						
	Flash LED						
							_
		-					Start search
	Online status informatio						
	Online status informatio	n.					
	Display only error m	essages					
						Load	Cancel
						<u>L</u> oad	<u>C</u> ancel
8.	Select the remo	ote station and	establish the	e onlii	ne connecti		Cancel
8.	Select the remo	ote station and	establish the	e onlii	ne connecti		
8.	Select the remo			_			<u>C</u> ancel
8.		Configured access no	odes of "CP1242-7_V	2_Teleser	vice*	on.	>
8.		Configured access no Device	odes of "CP1242-7_VZ Device type	2_Teleser Slot	vice*	ON. Address	
8.		Configured access no Device	odes of "CP1242-7_V	2_Telesen Slot . 1 X1	vice* Type PN/IE	on.	>
8.		Configured access no Device CP1242-7_V2_Telese	odes of "CP1242-7_V Device type CPU 1217C DC/D	2_Telesen Slot . 1 X1 2 101 X1	vice* Type PN/IE	ON. Address 192.168.0.1 Not configured	Subnet
8.		Configured access no Device CP1242-7_V2_Telese	odes of "CP1242-7_V Device type CPU 1217C DC/D CP 1242-7 GPRS V	2_Telesen Slot . 1 X1 2 101 X1	vice* Type PN/IE 1 PN/IE	ON. Address 192.168.0.1 Not configured	Subnet
8.		Configured access no Device CP1242-7_V2_Telese	odes of "CP1242-7_V Device type CPU 1217C DC/D CP 1242-7 GPRS V	2_Telesen Slot . 1 X1 2 101 X1	vice* Type PN/IE 1 PN/IE	ON. Address 192.168.0.1 Not configured	Subnet
8.		Configured access no Device CP1242-7_V2_Telese	odes of "CP1242-7_V Device type CPU 1217C DC/D CP 1242-7 GPRS V	2_Telesen Slot . 1 X1 2 101 X1 2 101	vice" Type PN/IE PN/IE Nobile wireles	Address 192.168.0.1 Not configured 200165 mobile wireless	Subnet PN/IE_1
8.		Configured access no Device CP1242-7_V2_Telese	odes of *CP1242-7_V Device type CPU 1217C DC/D. CP 1242-7 GPRS V CP 1242-7 GPRS V	2_Teleser Slot . 1 X1 2 101 X1 2 101 2 101	vice" Type PN/IE PN/IE Nobile wireles	Address 192.168.0.1 Not configured 200165	Subnet PN/IE_1
8.		Configured access no Device CP1242-7_V2_Telese CP 1242-7	odes of *CP1242-7_V Device type 	2_Teleser Slot . 1 X1 2 101 X1 2 101 2 101 terface: terface:	vice" Type PN/IE PN/IE Nobile wireles	DD. Address 192.168.0.1 Not configured 200165 mobile wireless s TeleService boar	Subnet PN/IE_1 d v @ M
8.		Configured access no Device CP1242-7_V2_Telese CP 1242-7	odes of *CP1242-7_V Device type 	2_Teleser Slot . 1 X1 2 101 X1 2 101 2 101 terface: terface:	vice" Type PN/IE PN/IE Mobile wireles TeleService viz Mobile wireles Direct at slot '10	DD. Address 192.168.0.1 Not configured 200165 mobile wireless s TeleService boar	Subnet PN/IE_1
8.		Configured access no Device CP1242-7_V2_Telese CP 1242-7 Cor	odes of *CP1242-7_V2 Device type 	2_Teleser Slot 1 X1 2 101 X1 2 101 1 X1 2 101 xterface: terface: subnet:	vice" Type PN/IE PN/IE Mobile wireles TeleService via Mobile wireles Direct at slot '10	OD. Address 192.168.0.1 Not configured 5 200165 mobile wireless 5 TeleService boar 1'	Subnet PN/IE_1 d v e m
8.		Configured access no Device CP1242-7_V2_Telese CP 1242-7	odes of *CP1242-7_V2 Device type 	2_Teleser Slot 1 X1 2 101 X1 2 101 1 X1 2 101 terface: terface: subnet:	vice" Type PN/IE PN/IE Mobile wireles TeleService via Mobile wireles Direct at slot '10	DD. Address 192.168.0.1 Not configured 200165 mobile wireless s TeleService boar	Subnet PN/IE_1 d v e m
8.		Configured access no Device CP1242-7_V2_Telese CP 1242-7 Cor	odes of *CP1242-7_V2 Device type 	2_Telesen Slot 1 X1 2 101 X1 2 101 X1 2 101 terface: terface: subnet: ateway:	vice" Type PN/IE PN/IE Mobile wireles TeleService via Mobile wireles Direct at slot '10 Add	OD. Address 192.168.0.1 Not configured 200165 mobile wireless s TeleService boar 1' Show all comp ress	Subnet PN/IE_1 d v v v atible devices Target device
8.		Configured access no Device CP1242-7_V2_Telese CP 1242-7 Cor Compatible devices i	odes of *CP1242-7_V Device type 	2_Telesen Slot 1 X1 2 101 X1 2 101 X1 2 101 terface: terface: subnet: ateway:	vice" Type PN/IE PN/IE Mobile wireles TeleService via Mobile wireles Direct at slot '10 Add	OD. Address 192.168.0.1 Not configured 200165 mobile wireless s TeleService boar 1' Show all comp	Subnet PN/IE_1 d v @ m d v @ v @ stible devices
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8.		Configured access no Device CP1242-7_V2_Telese CP 1242-7 Cor Compatible devices i	odes of *CP1242-7_V Device type 	2_Telesen Slot 1 X1 2 101 X1 2 101 X1 2 101 terface: terface: subnet: ateway:	vice" Type PN/IE PN/IE Mobile wireles TeleService via Mobile wireles Direct at slot '10 Add	OD. Address 192.168.0.1 Not configured 200165 mobile wireless s TeleService boar 1' Show all comp ress	Subnet PN/IE_1 d v v v atible devices Target device
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8.		Configured access no Device CP1242-7_V2_Telese CP 1242-7 Cor Compatible devices i	odes of *CP1242-7_V Device type 	2_Telesen Slot 1 X1 2 101 X1 2 101 X1 2 101 terface: terface: subnet: ateway:	vice" Type PN/IE PN/IE Mobile wireles TeleService via Mobile wireles Direct at slot '10 Add	OD. Address 192.168.0.1 Not configured 200165 mobile wireless s TeleService boar 1' Show all comp ress	Subnet PN/IE_1 d v v v atible devices Target device
8.	Go onfine	Configured access no Device CP1242-7_V2_Telese CP 1242-7 Cor Compatible devices i	odes of *CP1242-7_V Device type 	2_Telesen Slot 1 X1 2 101 X1 2 101 X1 2 101 terface: terface: subnet: ateway:	vice" Type PN/IE PN/IE Mobile wireles TeleService via Mobile wireles Direct at slot '10 Add	OD. Address 192.168.0.1 Not configured 200165 mobile wireless s TeleService boar 1' Show all comp ress	Subnet PN/IE_1 d v v v d v v v etible devices Target device CP1242-7_V2_Tel
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8.	Go ontine	Configured access no Device CP1242-7_V2_Telese CP1242-7 Cor Compatible devices i Device 	odes of *CP1242-7_V2 Device type CPU 1217C DC/D. CP 1242-7 GPRS V CP 1242-7 GPRS V CP 1242-7 GPRS V Type of the PG/PC in PG/PC in nection to interface/ 1st g in target subnet: Device type	2_Telesen Slot 1 X1 2 101 X1 2 100 X1 2	vice" Type PN/IE PN/IE Mobile wireles Direct at slot '10 Add 192	OD. Address 192.168.0.1 Not configured 200165 mobile wireless s TeleService boar 1' Show all comp ress .168.0.1	Subnet PN/IE_1 PN/IE_1 d V PV/IE_1 stible devices Target device CP1242-7_V2_Tel Start search

6.1 Polling diagnostic data from the station



6.2 Downloading project and program data from the STEP 7 project into the remote station

6.2 Downloading project and program data from the STEP 7 project into the remote station

No.	Action				
1.	Ensure that the engineering station is connected to the internet. Note: Check the internet connection at your engineering station with the help of the internet browser by calling up a random internet page.				
2.	Ensure that STEP 7 V13 on your engineering station is not in online mode.				
3.	 Select the project content to be transferred to the remote station: Hardware and software (changes only) Hardware configuration Software (changes only) 				
	CP1242-7_V2_Teleservice Image: Add new device Image: Devices & networks Image: CP1242-7_V2_Teleservice Image: Device & networks Image: CP1242-7_V2_Teleservice Image: Device & networks Image: Device & networks Image: Device & networks Image: Device & networks Image: Device configuration Image: Device of Device configuration Image: Device network blocks Image: Device network				
4.	As PG/PC interface type, select "TeleService via mobile wireless" and as PG/PC interface "Mobile wireless TeleService board".				

Table 6-2

6.2 Downloading project and program data from the STEP 7 project into the remote station

		Action					
Establish the TeleService connection between engineering and remote station by clicking on the mobile phone symbol.							
	lobile phone s	ymbol.					
Go online							
	Configured access noo Device	les of "CP1242-7_V2_Teleservie Device type Slot	ce" Type	Address	Subnet		
		CPU 1217C DC/D 1 X1	PN/IE	192.168.0.1	Subilet		
	CP 1242-7	CP 1242-7 GPRS V2 101 X1 CP 1242-7 GPRS V2 101	PN/IE Mobile wireless	Not configured	PN/IE_1		
		CF 1242-7 GFR3 V2 101	woone wretess	200105			
		Type of the PG/PC interface:	TeleService via				
		PG/PC interface:	Mobile wireless	TeleService board			
Enter the followir	ng values and	then click on "Cor	nnect":				
The IP addre	ess of the serv	ver (172.16.61.100))				
The server p	bassword (Tele	eservice)					
• The port (55	5097)						
The TeleSer	rvice user nam	ne (SiemensOS)					
 The TeleService user name (SiemensOS) The TeleService password (Teleservice) 							
 The TeleSer 	rvice password	d (Teleservice)					
The TeleSer Establish mobile wirele		· · ·					
		· · ·	ervice gateway	y for switching the	e connection:		
	ss remote connectio	in .	ervice gateway	y for switching the	e connection:		
	ter connection	in lecontrol server / TeleSo		y for switching the	e connection:		
	ter connection	In In International Internationa International International Internation	ternet	y for switching the	e connection:		
		in lecontrol server / TeleSo Component is on this PC Component is in network or In IP address or host name: Port:	ternet 172.16.61.100 55097	y for switching the			
		In In International Internationa International International Internation	ternet	/ for switching the			
		in lecontrol server / TeleSo Component is on this PC Component is in network or In IP address or host name: Port:	ternet 172.16.61.100 55097	y for switching the			
		in lecontrol server / TeleSo Component is on this PC Component is in network or In IP address or host name: Port:	ternet 172.16.61.100 55097 ******				
		In Recontrol server / TeleSo Component is on this PC Component is in network or In IP address or host name: Port: Own server password: hentication for TeleServ TeleService user name:	ternet 172.16.61.100 55097 ******				
		In In In Component is on this PC Component is in network or In IP address or host name: Port: Own server password: hentication for TeleServ	ternet 172.16.61.100 55097 *********				
	Tel	In Recontrol server / TeleSo Component is on this PC Component is in network or In IP address or host name: Port: Own server password: hentication for TeleServ TeleService user name:	ternet 172.16.61.100 55097 *********				
	Tel	In lecontrol server / TeleSi Component is on this PC Component is in network or In IP address or host name: Port: Own server password: hentication for TeleServ TeleService user name: TeleService password: mote station:	ternet 172.16.61.100 55097 *********	station:			
	Tel	In lecontrol server / TeleSi Component is on this PC Component is in network or In IP address or host name: Port: Own server password: hentication for TeleServ TeleService user name: TeleService password: mote station:	ternet 172.16.61.100 55097 ********** rice access to SiemensOS *********	station:			

6.2 Downloading project and program data from the STEP 7 project into the remote station

lo.			Act	ion				
	The TeleServic	e connection h	as been esta	blish	hed:			
	Status: Conne	ected				Dis	connect	Close
	Contrast. Contrast	cieu				E		
	Start searching	for accessible	participants	by c	licking on	"Start searc	:h".	
	Extended download to	o device		_	_		_	2
			des of "CP1242-7_V2_T					
		Device CP1242-7_V2_Telese	Device type : . CPU 1217C DC/D	Slot 1 X1	Type PN/IE	Address 192.168.0.1	Subnet	
		CP 1242-7	CP 1242-7 GPRS V2 CP 1242-7 GPRS V2		PN/IE Mobile wireles	Not configured	PN/IE_1	
			Ci 1242-7 Gi K3 V2		wobie wieles	3 200105		
			Type of the PG/PC inter		TeleService via			A C
			PG/PC inter		Direct at slot '10	s TeleService board		💎 💽 💎
			1st gate					۲
		Compatible devices in				Show all compat		
		Device 	Device type 	Type PN/IE		dress ess address	Target device	
	F							
	-							
	Flash LED							
								-
							<u>S</u> tart se	arch
).	Online status information		load the proj	ect o	or program	n data by cli		arch
		ote station and	les of *CP1242-7_V2_Te			a data by cli		earch 🛛
	Select the remo "Load".	o device Configured access noc Device CP1242-7_V2_Telese	des of "CP1242-7_V2_Te Device type S CPU 1217C DC/D 1	leservia lot X1	ce" Type PN/IE	Address 192.168.0.1	cking on	×
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l.	Select the remo "Load".	o device Configured access not Device CP1242-7_V2_Telese CP 1242-7	des of *CP1242-7_V2_Te Device type S CPU 1217C DC/D 1 CP 1242-7 GPRS V2 1 CP 1242-7 GPRS V2 1 Type of the PG/PC interf PG/PC interf ection to interface/sub	leservic lot X1 01 X1 01 ace: ace: net:	ce" Type PN/IE PN/IE Mobile wireless	Address 192.168.0.1 Not configured 200165 mobile wireless s TeleService board	Cking on Subnet PN/IE_1	
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	Select the remo "Load".	o device Configured access not Device CP1242-7_V2_Telese CP 1242-7	des of *CP1242-7_V2_Te Device type S CPU 1217C DC/D 1 CP 1242-7 GPRS V2 1 CP 1242-7 GPRS V2 1 Type of the PG/PC interf PG/PC interf tection to interface/sub 1st gates	leservic lot X1 01 X1 01 ace: ace: net:	ce* Type PN/IE PN/IE PN/IE Mobile wireless Mobile wireless Direct at slot '10'	Address 192.168.0.1 Not configured 200165 mobile wireless s TeleService board	Cking on Subnet PN/IE_1	
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	Select the remo "Load". Extended download to Fash LED Online status informatio "? Retrieving device in	Device Configured access nor Device CP1242-7_V2_Telese CP 1242-7 Compatible devices in Device P1242-7 Compatible devices in Device P1242-7_V2_Telesen t formation on retrieval completed.	les of *CP1242-7_V2_Te Device type S CPU 1217C DC/D 1 CP 1242-7 GPRS V2 1 CP 1242-7 GPRS V2 1 Type of the PG/PC interfi PG/PC interfi ection to interface/sub 1st gates target subnet: Device type	leservic lot X1 01 X1 01 01 acce: acce: net: vay: Type PN//E	ce* Type PN/IE PN/IE Mobile wireless Mobile wireless Direct at slot '10' Add 192	Address 192.168.0.1 Not configured 200165 mobile wireless TeleService board ' Show all compatib ress 168.0.1	Cking on Subnet PN/IE_1	Tel

7 Links & Literature

Table 7-1

	Торіс
\1\	Siemens Industry Online Support http://support.industry.siemens.com
\2\	Download page of the entry https://support.industry.siemens.com/cs/ww/en/view/56720905
\3\	SIMATIC NET Industrial Remote Communication -TeleControl TeleControl Server Basic V3 https://support.industry.siemens.com/cs/ww/en/view/107536367
\4\	SIMATIC NET S7-1200 – TeleControl CP 1242-7 GPRS V2 – Manual https://support.industry.siemens.com/cs/ww/en/view/109476700
\5\	SIMATIC NET Industrial Remote Communication TeleService TS Gateway Manual https://support.industry.siemens.com/cs/ww/en/view/107535103

8 History

Table 8-1

Version	Date	Modifications
V1.0	10/2016	First version