How do you create a communication of Sm@rtServer with an Industrial Thin Client SIMATIC ITC?

Thin Client

FAQ • August 2012



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Caution

The functions and solutions described in this article confine themselves to the realization of the automation task predominantly. Please take into account furthermore that corresponding protective measures have to be taken up in the context of Industrial Security when connecting your equipment to other parts of the plant, the enterprise network or the Internet. Further information can be found under the Content-ID 50203404.

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Question

How do you create a communication of Sm@rtServer with an Industrial Thin Client SIMATIC ITC?

Answer

The instructions and notes listed in this document provide a detailed answer to this question.

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1 Industrial Thin Client SIMATIC ITC – Getting Started

1.1 Introduction

With the new Industrial Thin Client SIMATIC ITC you have a powerful Thin Client solution in your hands. This device offers a wide range of connection protocols which are rounded up with other useful features.

these features are:

- Media Mapping
- PDF Reader
- Web Browser

This document helps you do the first steps with the device in order to establish a first connection to a remote computer.

1.2 Setup Assistant

To set up a first connection only a few steps are necessary. Right after the first power up or after a factory reset the setup assistant appears. The assistant helps you do the initial settings. The Setup Assistant is identical for the most part for all available connection types. These connection types are:

- RDP (Remote Desktop Protocol)
- VNC (Virtual Network Computing)
- Sm@rtServer
- Web (HTTP)

Before you can use any of these connections some prerequisites are necessary.

1.3 Sm@rtAccess

1.3.1 Preparations on the target computer (server computer)

A Sm@rtAccess connection uses a Siemens proprietary protocol and can only be used with Siemens Visualizationsystems. The server functionality will be provided by a Computer running a WinCC Advanced Runtime or WinCC flexible Runtime system. A SIMATIC Panel als provides this functionality. The Client functionality is realized by an Industrial Thin Client SIMATIC ITC. This type of connection can be used in an installation of multiple independent operating SIMATIC visualizationsystems.

The next few steps will show you how to activate the server.

Setup a Sm@rtServers with WinCC Advanced RT

Open the TIA Portal	98 Normann - Maarly				
 Open your project and select the tab "Visualizations". 	Spart Spart Spart Spart Internet & Internet & Internet & Internet & Spart Internet & Internet & Internet & Spart Internet & Internet & Internet & Versatization Internet & Internet & Internet & Versatization Internet & Internet & Internet & Versatization Internet & Internet & Internet & Internet & Internet & Internet & Internet & Internet & Internet & Internet & Internet & Internet & Internet & Internet & Internet &	e troping, s troping, s troping, s troping,			
A Double click onto "Runtime Settings"	💮 Under sattings				
opens a setup window for the					
visualizationsystem.					
	Project Edit View Insert Online Options				
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	Devices				
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	Services				
	.5 Smarty Screens Keyboard				
	Add new device Good Manu	facturing			
	Alarms				
	PC-System 2 [SIMATI User admin				
	Device configurati	s font			
	Unline & diagnost	-			
	Device configu	-			
	😨 Online & diagn				
	Y Runtime settin				
Select the entry "Services" and set the	Smarty + PC-System_2 [SIMATIC PC station] + HMI_RT_1 [WinCC R	T Advanced] > Runti			
checkbox "Start Sm@rtServer"	General Services				
	Screens Remote control				
	Reyboard Good Manufacturing				
	Alarms User administration Read/write tags				
		Operate as OPC server			
		HTTP channel server Web service SOAP			

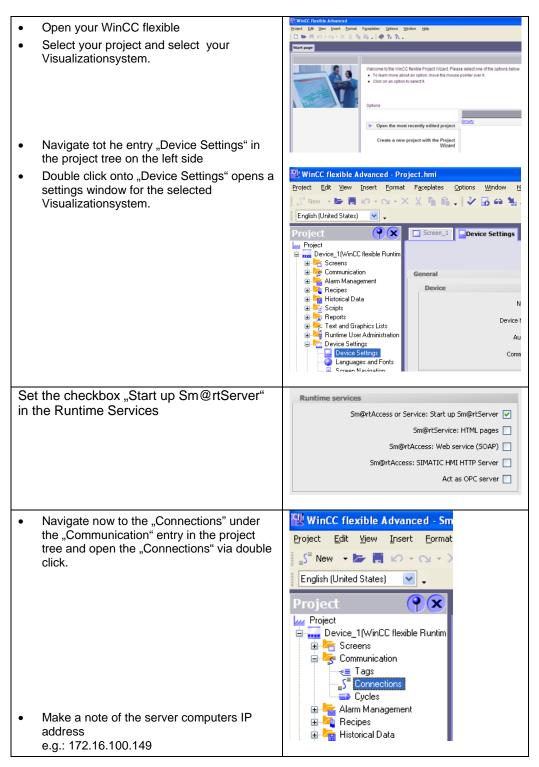
Start the Runtime by clicking onto the button. When using a Panel you need to download the modified settings.	Vin Siemens - Smarty Project Edit View Insert Online Options Tools Vindow Help Image: Save project Image: View
As next step open the network view and make a note of the server computers IP address. e.g.: 172.16.100.139	Progs CPU 1212C CPU 1212C PC-System_2 SIMATIC PC stati PT.Adv PILE PN/IE_1 PV/IE_1
 With the RT started a new icon appears in the notification area of the Windows Task. 	
 Note In case you are operating in Full Screen Mode, hit the "Ctrl+Esc" keys to get to the Windows Task Bar. Right Click on the icon. Select the "Properties" entry from the now open context menu. 	Properties Add New Client Kill All Clients Disable New Clients Close Sm@rtServer
Assign Passwords to authenticate users trying to establish a connection. You may assign two different passwords. The checkbox next to the password limits the functionality to "View only" when set. Note The Sm@rtAccess Server is now ready to accept connections from the Industrial Thin Client SIMATIC ITC.	Server Poling Display Query Administration Incoming connections Display or port numbers to use Auto O Display: Query Password 1: Over View only Ports: SB00 and SB00 Password 2: View only When last client disconnects (HTTP) Image: Construction of the sessions O to nothing Query Clock workstation Image: No local input during client sessions Do nothing Clock workstation Clogoff workstation
	QK Cancel Apply

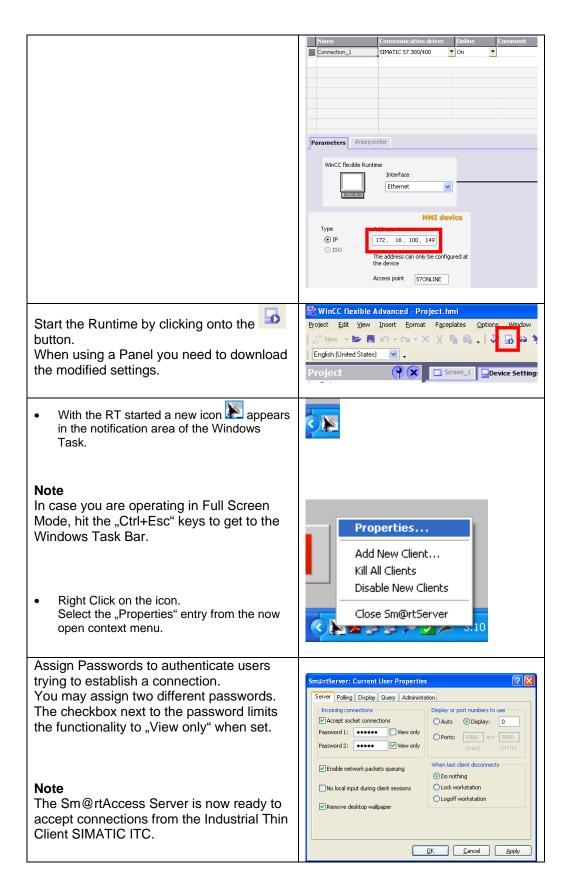
Note

At a ComfortPanel the password assignment is located in the ControlPanel of that device. The applet can be reached via WinCC Runtime Settings. You must load the Panel at least once with the modified settings before you will be able to set the passwords.

Setup a Sm@rtServers with WinCC flexible RT

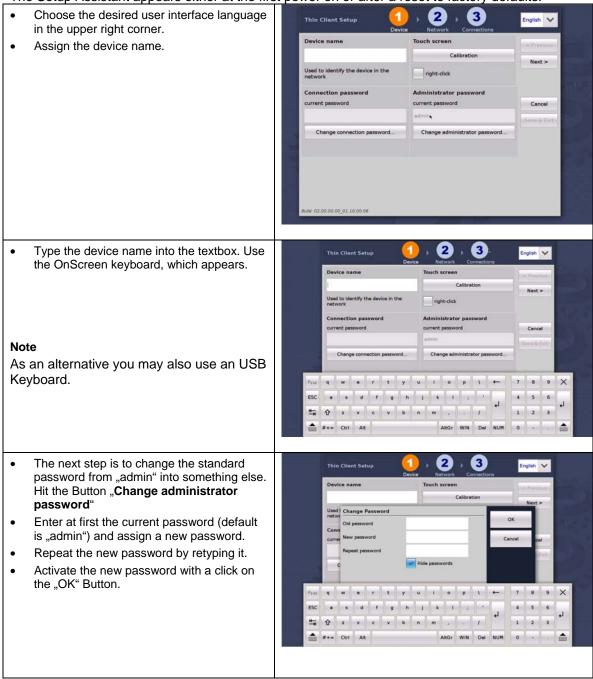
The settings to activate the Sm@rtAccess Server in WinCC flexible are very similar to those in a TIA Portal

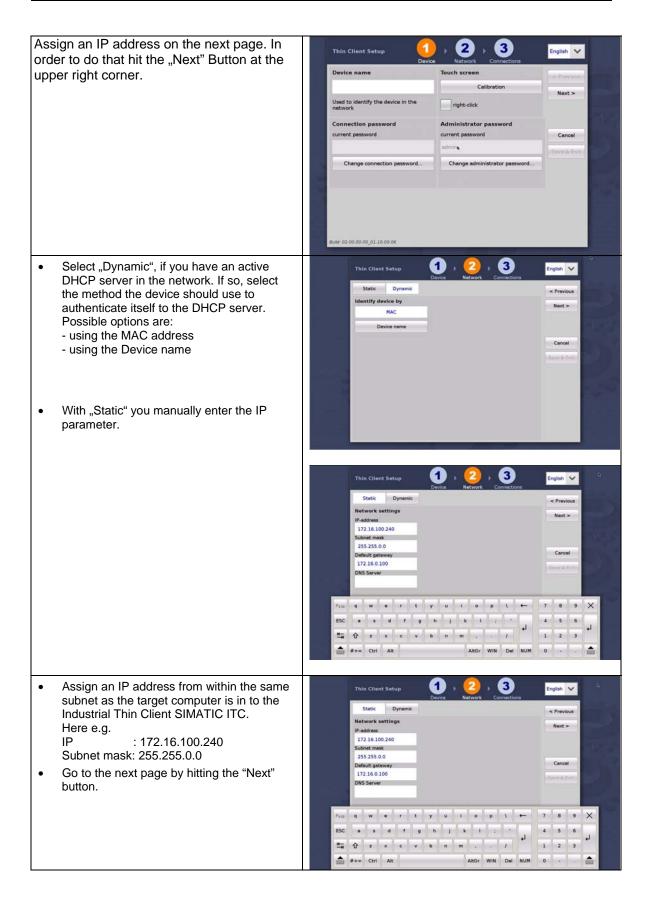




1.3.2 Settings for the Industrial Thin Client SIMATIC ITC

The Setup Assistant appears either at the first power on or after a reset to factory defaults.





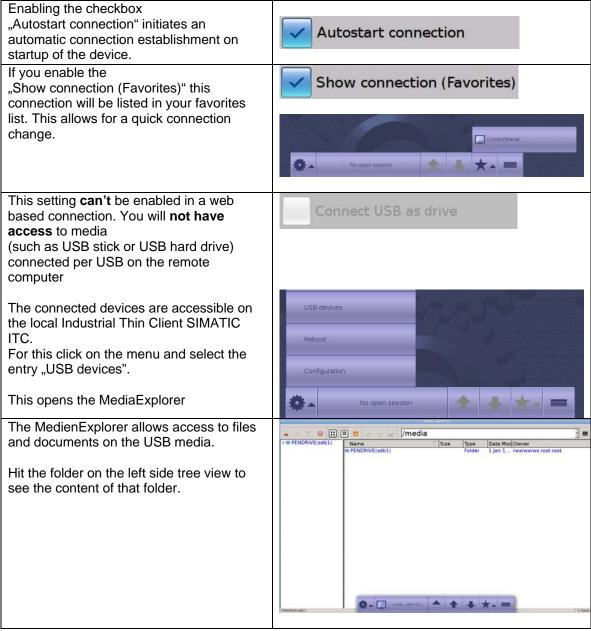
- Select "Sm@rtServer" for the connection type.
- Name the connection for easier identification later on.
- Type the previously noted IP address of your server computer into the "Server" field here: 172.16.100.149
- Acknowledge the settings with "Save & Exit" After a reinitialization your webpage will appear.

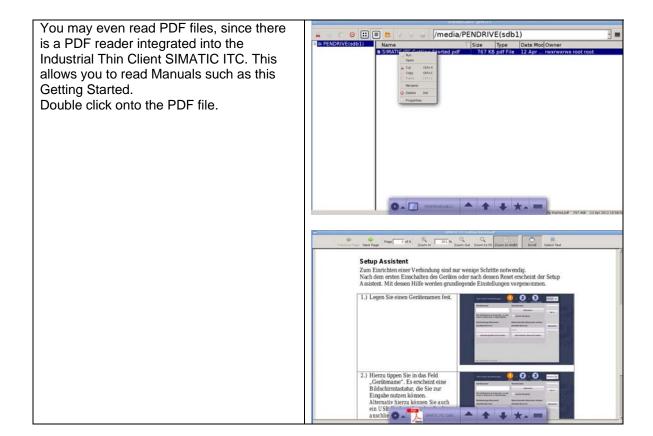
Connection type	Domain	< Previous
Sm@rtServer V		Nexton
Connection name	User	
ComfortPanel		
Description	Pessword	Save & New
		Cancel
Server (IP-address or Hostaddress)	Autostart connection	
172.16.100.149		Save & Exit
Port	Show connection (Fevorites)	
5900	Reconnect automatically	
Start program	Connect USB as drive	
	Automatic scaling	

This finalizes the initial settings for the Industrial Thin Client SIMATIC ITC. This enables the device to establish your first connection to the target computer.

1.3.3 Additional setting for a Web connection

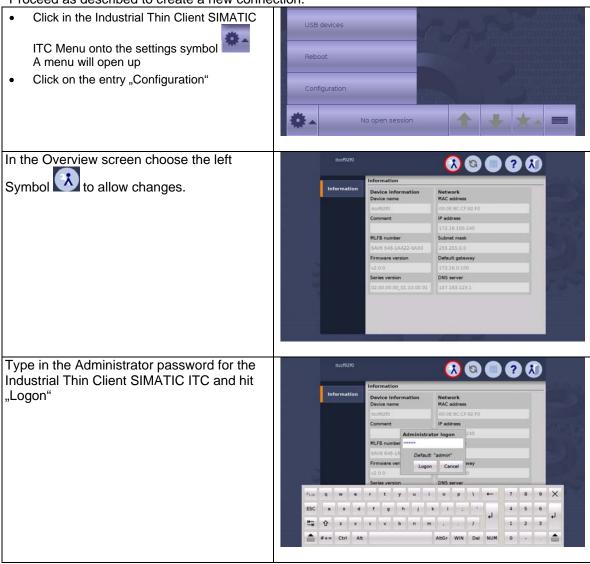
There are some more settings you can apply to a connection. They may be useful depending on the situation the Industrial Thin Client SIMATIC ITC is being used.





1.3.4 Create a new Sm@rtServer connection

With the Industrial Thin Client SIMATIC ITC it is possible to keep more than one connection operating. For this to work you need to create a new connection. Proceed as described to create a new connection.



Select in the left list the entry "Connections"	itc19210	
	Connections	
	All Marvin * 6	
	Information	
	System	
	Network	
	Connections	
	Passwords	
	Desktop	
	Programs	
	New Edit Test Delete	
Click on "New" to create a new connection. There will be a new dialog allowing for the same settings to be made as the Setup Assistant did.	Connections	
	Passwords	
	Desktop	
	Programs New Edi	
	Add new connection Connection type Domain	
	<pre><pre>choose a type></pre></pre>	
	Connection name User	
	Description Password	
	Server (IP-address or Hostaddress)	
	Port Show connection (Favorites)	
	Start program	
	Connect USB as drive	
	redundant 2nd server Automatic scaling	
	~	
	Cancel	

Click on "Edit" to adjust connection settings for an existing connection. A dialog will open up to allow all relevant changes to be		itc1500		
made for the selected connection.		AII	Connections	
		Information	ComfortPanel	
		Information		
		System		
		Network		
		Connections		
		Passwords		
		Desktop		
		Programs	New Edit	
	Edit connection Connection type		Domain	
	Sm@rtServer V Connection name			
			User	
	ComfortPane(Description			
		Password		

	Server (IP address or hostname) 172.16.100.149 Port 5900		Autostart connection	
			Show connection (Favorites)	
			Reconnect automatically	
	Start program			
			Connect USB as drive	
	Redundant 2nd ser			