

Industry Online Support

NEWS

Remote Access to WinCC Runtime Advanced

Sm@rtServer, SIMATIC WinCC Runtime Advanced

https://support.industry.siemens.com/cs/ww/de/view/109476153

Siemens Industry Online Support

W/



Warranty and Liability

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1 Task

Remote access is used to its full extent when you can use the same functions as if you were standing right in front of the operator panel. Using existing hardware such as your smartphone, tablet or standard notebook enables you to achieve the greatest possible flexibility.

Apart from all the advantages remote access provides, you still need to be aware of the hazards such an intervention may involve.

In most cases, the user remotely accessing the plant cannot see what is happening in the plant at the moment of access. The intervention must not put the staff on site or the plant at risk. To this end, it is important that you lock certain functions (e.g., manual control of a gripper) for the remote maintenance user. In addition, the staff on site should be informed of an intervention and be able to stop it at any time if necessary.

Moreover, it must be ensured that only authorized persons are provided with access to the plant. Unfortunately, total network security cannot be guaranteed. Therefore, it makes sense to inform the staff not only of the fact **that** a remote maintenance user is accessing the operator panel, but also of **who** this is.



Figure 1-1

2.1 Overview

2 Solution

2.1 Overview

Diagrammatic representation

The diagrammatic representation below shows the most important components of the solution:

Figure 2-1



Configuration

The WinCC Runtime Advanced PC operates as a Sm@rtServer. To reduce the risk of third-party intervention, connect your Sm@rtClient, a tablet with the SIMATIC WinCC Sm@rtClient app in the above figure, to the SIMATIC HMI operator panel using VPN.

The "Sm@rtServiceMonitor" tool is used to check the Sm@rtClient connections to the operator panel. The IP addresses of the devices accessing the operator panel are stored in internal WinCC tags for further processing. This allows you to check who is currently accessing the operator panel at any time and, if necessary, terminate remote access.

Advantages

The solution presented here offers the following advantages:

- Flexibility through a variety of Sm@rtClient solutions
 - The Sm@rtClient app for Android and iOS enables you to access the Sm@rtServer from mobile devices such as smartphones or tablets.
 - The Sm@rtClient Viewer enables you to access the Sm@rtServer from a programmer or another standard PC.
 - The Sm@rtClient View WinCC control enables you to access the Sm@rtServer via a WinCC Runtime Advanced station.
 - Internet Explorer enables you to access the Sm@rtServer from any PC.
- The operator panel layout is represented by the Sm@rtClient app and the Sm@rtClient Viewer and you can use, for example, keyboards
- Up to four Sm@rtClients per WinCC Runtime Advanced station are possible simultaneously (number depends on the device, see <u>\5\</u>)
- Operator actions are displayed on the device on site; i.e., an employee on site can follow your operator steps
- Wide range of possible applications (see scenarios in the "General information" document)

2 Solution

2.2 Hardware and software components

- Checking the incoming connections using "Sm@rtServiceMonitor"
- Increased security through a VPN connection

Scope

This application does not include a description of

- the basics of configuring with WinCC (TIA Portal)
- setting up a VPN connection; information on this topic can be found in the "VPN connection" document.

2.2 Hardware and software components

2.2.1 Validity

This application is valid for

- WinCC Runtime Advanced PC stations
- Note Starting with TIA Portal V15, the "Sm@rtServiceMonitor" tool for SIMATIC Comfort Panels was fully integrated into the "SIMATIC HMI Option+" tool. For more information on SIMATIC HMI Option+, use the following link: https://support.industry.siemens.com/cs/ww/en/view/109754400
- Note With TIA Portal V14 or higher, Sm@rtServer is also available for SIMATIC HMI Basic Panels. The "Sm@rtServiceMonitor" tool can only be used with WinCC Runtime Advanced.

2.2.2 Components used

The application was created with the following components:

Hardware components

Table 2-1

Component	No.	Article number	Note
PC station (general)	1		
Smartphone	1		Android or iOS

2.2 Hardware and software components

Software components and licenses

Table 2-2 Component No. Article number Note WinCC Comfort V14 1 6AV2101-0AA04-0AA5 Only when using a SIMATIC WinCC 1 smartphone as a client Sm@Client app WinCC Sm@rt Server 6AV2107-0CA00-0BB0 1 for Runtime Advanced

Configuring and using the VPN connection requires more components. Details can be found in the "VPN connection" document.

Sample files and projects

The following list contains all files and projects that are used in this example.

Та	bl	е	2-	3

Component	Description
109476153_Remote_Panels_SmartServer_DOKU_en.pdf	This document
109476153_Remote_Panels_RTAdv_Proj.zip	WinCC (TIA Portal) project for WinCC Runtime Advanced PC stations
109476153_Remote_Panels_SmartServer_Library.zip	WinCC (TIA Portal) library
109476153_Remote_Panels_RTAdv_Tool.zip	"Sm@rtServiceMonitor" tool for WinCC Runtime Advanced

3.1 Sm@rtServer

3 **Principle of Operation**

3.1 Sm@rtServer

The WinCC Sm@rtServer option enables operator control and monitoring of operator panels via the intranet/internet. The Sm@rtServer provides its user interface to the Sm@rtClients. Various devices can be used as a Sm@rtClient, for example a standard PC, a smartphone or another SIMATIC HMI Panel. The Sm@rtClient concept is not only used for operator control and monitoring when performing service jobs, it can also be used for large, geographically distributed machines and plants. The mobile end use option makes this solution also suitable for commissioning as you can move around the entire plant, regardless of the operator panel's place of installation.

3.2 Application example

Sm@rtServiceMonitor

The "Sm@rtServiceMonitor" tool is used to check the Sm@rtClient connections to a WinCC Runtime Advanced PC station. The IP addresses and the number of devices accessing the operator panel are stored in internal WinCC tags for further processing (VncClient1, VncClient2, VncClient3, VncClient4 and VncConnectionCount).

SOAP web service

The SOAP (Simple Object Access Protocol) web service is used for writing the tags. The operator panel provides this service via the integrated web server. It can be used to access the HMI Runtime tags from external applications. Using the SOAP service requires a web user with the appropriate permission on the operator panel (see chapter <u>4.2.4 Operator panel settings</u>).

Sample project

In the event of a value change of one of the tags, "VncClient1", "VncClient2", "VncClient3" or "VncClient4", the "CheckConnections" script is called.

This script first checks what has changed compared to the previous cycle.

If a user is logged in to the operator panel on site and a new Sm@rtClient connects, a message appears on the operator panel. This message is displayed for a defined time and enables the operator on site to directly terminate the incoming connection. (see chapter <u>5.2 Sample project</u>). The remote operator cannot access WinCC Runtime Advanced until this time has elapsed. In the sample project, the default setting for this time is 10 seconds; however, you can change this setting (see chapter <u>6 Additional Notes</u>).

As long as (at least) one Sm@rtClient connection to the operator panel is active, this is indicated by a flashing button. Clicking this button allows you to terminate the connections at any time.

4.1 Installing the software

4 Installation and Startup

4.1 Installing the software

To use this application example, at least the SIMATIC WinCC Comfort software must be installed on your programmer.

4.2 Startup

The application example can be started up in different ways.

- First, establish a VPN connection between the WinCC Runtime Advanced PC station and the Sm@rtClient. More information can be found in the "VPN connection" document.
- Depending on whether you want to use the project contained in this entry or include the functionality in your own project, follow the steps described in chapter <u>4.2.1 Sample project or 4.2.2 Project library</u>.
- Then transfer, if not yet available, the Sm@rtServer license to the operator panel as described in chapter <u>4.2.3 Transferring the license</u>.
- Make the necessary Sm@rtServer and web server settings as described in chapter <u>4.2.4 Operator panel settings</u> and then configure the tool following the steps in chapter <u>4.2.5 Sm@rtServiceMonitor</u>.
- Depending on the Sm@rtClient you are using, follow the instructions in chapter <u>4.2.6 Sm@rtClient app</u>, <u>4.2.7 Sm@rtClient application</u>, <u>4.2.8 Sm@rtClient</u> <u>control</u> or <u>4.2.9 Internet Explorer</u>.

4.2.1 Sample project

Table 4-1

No.	Action
1.	Depending on your operator panel, download the "109476153_Remote_Panels_RTAdv_Proj.zip" sample project.
2.	Unzip the project.
3.	Use WinCC (TIA Portal) to open the project.
4.	Go to the project view.



4.2.2 Project library

Table 4-2

1. [2. [3. [4. [6]	Download the "109476153_Remote_Panels_SmartServer_Library.zip" library. Unzip the folder.
2. l 3. (4. (Unzip the folder.
3. (p 4. (Open the project into which you want to integrate the functionality and go to the
4. 0	project view.
5. C 6. C 1	Depen the Runtime settings of the operator panel and in Services, select "Start Sm@rtServer" and "Web service SOAP". Project tree
7. l	Use drag and drop to move the "Task_Change_User" task to the task scheduler.
8. L	Use drag and drop to move the "Tags_SmartClient" tag table to the "HMI tags" older.
9. L f	Use drag and drop to move the "Screen_User_Access" screen to the "Screens" folder.
10. C	Drag the "Connected_Clients" faceplate to a screen.
11. l	Use drag and drop to move the "VBScript_SmartClient" VB scripts to the "Scripts > VB scripts" folder.
12. l	Use drag and drop to move the "Template_Objects" objects to your template.
13. 7	Transfer the project to your operator panel.

On the WinCC Runtime Advanced PC station, open the Automation License Manager and use drag and drop to move the "Sm@rtServer for WinCC Runtime Advanced" license from the license data medium to the PC.

Note With TIA Portal V14 SP1, the Sm@rtServer in conjunction with WinCC Runtime Advanced no longer requires a license.

4.2.3

4.2.4 Operator panel settings

No.	Action
1.	WinCC Runtime Advanced: Open the PC's Control Panel and select "WinCC Runtime Advanced Internet". WinCC Runtime Advanced Internet (32-bit)
2.	Go to the "Remote" tab. Check "Start automatically after booting" if you want the Sm@rtServer to start with the operator panel and not later with Runtime. Check "Close with Runtime" if you want the Sm@rtServer to close with Runtime. Click the "Change settings" button. WinCC Runtime Advanced Internet Email Web Server Remote Change settings Change settings of the Sm@rtServer Start Start the Sm@rtServer Stop Stop the Sm@rtServer Start automatically after booting Close with Runtime OK Cancel
3.	In Password 1 and Password 2, enter secure passwords for access of the Sm@rtClients and check the "View only" check box if you want a Sm@rtClient to only monitor the operator panel with this password. If you are using an operator panel with a version lower than V13, always change the default passwords. Sm@rtServer Settings Server Poling Display Query Administration Certificate Incoming connections Category and Server Settings Accept socket connections Encrypt communication Password 1: ******** View only Password 2: ******** View only Encrypt communication No local input during client sessions Remove desktop wallpaper OK Cancel Apply

No.	Action
4.	If necessary, make other settings such as the ports. More information on the settings can be found in the manual: "WinCC Advanced > Visualize processes > Options > WinCC Sm@rtServer > Basics > Settings for Sm@rt options > Configurations on the HMI device > <u>'Sm@rtServer Dialog: Current User</u> <u>Properties'</u> ". Use the "Apply" button to confirm the changes.
5.	Go to the "Web Server" tab. For "Close with runtime", make the same settings as for the Sm@rtServer (Step 3).
6.	Click the "User Administration" button.
7.	Create a new user, "SoapUser", and assign a password to this user. Click the "Apply" button. UserDatabase-Edit User Manager Description Authorizations Administrator User Name: SoapUser New Password: Exception Remove
8.	Go to the "Authorizations" tab and enable the "SoapUser" authorization for this user.
0	Close the open dialogs
Y Y	

4.2.5 Sm@rtServiceMonitor

Table 4-4

No.	Action
1.	Download the "Sm@rtServiceMonitor for WinCC Runtime Advanced" tool and unzip the zip folder.
2.	Start the "SetPasswordTool.exe" tool.
	Name Date modified Type Size
	27.07.2015 16:20 File 1 KB
	SetPasswordTool.exe 27.07.2015 16:21 Application 148 KB
	SmartServiceMonitor.ini 29.07.2015 16:22 Application 680 KB SmartServiceMonitor.ini 29.07.2015 14:57 Configuration sett 1 KB
3.	In the file browser, select the "SmartServiceMonitor.ini" file.
	Open Image: Comparison of the second se
4.	Enter the password of the "SoapUser" user and press Enter to confirm. Repeat this step.

No.	Action	
5.	Close the "SetPasswordTool" by pressing any button.	
	C:\Users\Admin\Desktop\SmartServiceMonitor_1\SetPasswordTool.exe	
	Please provide a password for accessing the SOAP web service as user SoapUser: Please prepeat the password: File 'C:\Users\Admin\Desktop\SmartServiceMonitor_1\SmartServiceMonitor\x86_600\S martServiceMonitor.in1' updated with provided password! Press any key to continue!	

To use the tool on a WinCC Runtime Advanced PC, copy the files to the Runtime PC and manually start the "SmartServiceMonitor.exe" or add a shortcut to this file to the PC's Startup folder.

4.2.6 Sm@rtClient app

Table 4-5

No.	Action
1.	Download the "SIMATIC WinCC Sm@rtClient" app to your smartphone or tablet and install it. You can find the app in \3\ (iOS), \4\ (Android) or using the following QR code.
2.	Start the NCP VPN Client app and establish a connection to the automation cell. Detailed information on this topic can be found in the "VPN connection" document.
3.	Start the SIMATIC WinCC Sm@rtClient app and either manually add a new connection or use automatic Sm@rtServer detection to search for the desired SIMATIC HMI operator panel.
	SMART CLIENT
	Connections 💿 🕂 💉
4.	Password protect both the device and the app to prevent unauthorized persons from accessing the Sm@rtServer. If possible, do not save the password along with the connection settings, but enter it manually when prompted.

4.2.7 Sm@rtClient application

If WinCC Runtime Advanced is installed on the PC, the Sm@rtClient application is also installed. Otherwise, you can copy it from the "Support\SmartClient" folder of the WinCC product DVD or from another PC from the "...\Siemens\Automation\WinCC RT Advanced" folder.

Table 4-6

No.	Action
1.	Start the SOFTNET Security Client and establish a connection to the automation cell. Detailed information on this topic can be found in the "VPN connection" document.
2.	Select "Start > All Programs > Siemens Automation > Runtime Systems > WinCC Runtime Advanced > Sm@rtClient" to start the Sm@rtClient Viewer.
3.	Enter the Sm@rtServer's IP address and, if necessary, change the settings in "Options". Click the "Connect" button. New Sm@rtserver Connection Sm@tserver: 172.16.35.25 Connect Connection profile Connection profile Connection Cancel Listening mode
4.	Enter a Sm@rtClient password and click "OK".

You can save the connection settings and therefore automatically save the Sm@rtClient application without user input. Table 4-7

No.	Action						
1.	When the connection has been established, right-click the title bar of the Sm@rtClient application.						
2.	Select "Save connection info as".						
	WinVNC Image: Size → Minimize Maximize Maximize Maximize X Cose Alt+F4 Connection options Ctrl-Alt-Shift-I Request screen refresh Ctrl-Alt-Shift-I Request screen refresh Ctrl-Alt-Shift-I Full screen Ctrl-Alt-Shift-I Send Ctrl-Alt-Del Send Ctrl-Alt-Shift-I Send Ctrl-Alt-Del Send Ctrl-Alt-Shift-I Send Ctrl-Alt-Shift-I Ctrl-Alt-Shift-I Transfer files Ctrl-Alt-Shift-I Save connection info as Ctrl-Alt-Shift-N Save connection info as Ctrl-Alt-Shift-S Show Input Panel →						
3.	Select a storage location and a file name and click "Save".						
4.	The following warning appears: Security warning Do you want to save the password in this file? If you say Yes, anyone with access to this file could access your session and (potentially) discover your Sm@rtClient password. Yes No Confirm the message with "Yes" only if you can ensure that no unauthorized person can access this file.						
5.	Using command prompt or a batch file, you can then open the Sm@rtClient application with this configuration as a parameter. Example: "smartclient.exe –config Configuration.sac"						

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4.2.8 Sm@rtClient control

Table 4-8

No.	Action				
1.	Open the WinCC (TIA Portal) project with the operator panel from which you want to access the Sm@rtServer.				
2.	Insert the "Sm@rtCli	ent view" control into	a screen.		
3.	In "Properties > Gen- necessary, other sets Sm@rtClient-Anzeige_1 [Sm Properties Animations Property list General Layout Scaling Miscellaneous Security	eral", enter the IP add tings. @rtClient view] s Events Texts General Settings Connection type: Address for Sm@rtServer: TCP port no.: Address preview: Address tag: Password: Tag for password:	Medium speed ▼ 172.16.35.25 5900 5900 € 172.16.35.25::5900 € ******* ■	port and, if Options ✓ Connect on start Only display ✓ Shared ✓ Local cursor ✓ Scroll with cursor keys ✓ Enable menus ✓ Control elements	
4	In "Dropartics - Soci	ing" you can act who	ther the display will b		
4.	using, for example, c	perator panels with o	different display sizes.	e scaled when	

4.2.9 Internet Explorer

Table 4-9

No.	Action
1.	Download Java Runtime from www.java.com and install it.
2.	Open Internet Explorer. In the address bar, enter "http://IP address:port". Enter the Sm@rtServer password and click "OK".

Note

More information on the Java security settings can be found here: <u>http://support.automation.siemens.com/WW/view/en/101977511</u>

5.1 Overview

5 Operation of the Application

5.1 Overview

Eiguro E 1

Figure 5-1			
4/23/2015 9:48 AM			
Check Sm@rtClients			SIEMENS
← 🗡 🏠			
Sm@rtClients			
	Sm@rtClients		
	Remote Hosts:	Count:	
		+1	
New connected client:			
172.16.35.17 Current user:			
No user logged in			

5.2 Sample project



The items included in the screen are part of the "Template_Topic_001" template.

Field 1, "New connected client:", displays the IP address of the Sm@rtClient last connected to the Sm@rtServer. Use static IP addresses on your Sm@rtClients so that the operating staff on site can immediately decide whether unauthorized users are accessing the plant.

Button 2 flashes blue/yellow while one or more Sm@rtClients are accessing the Sm@rtServer. The button is not displayed until a Sm@rtClient is connected. Clicking the button disconnects all connected Sm@rtClients.

Button 3 allows you to log in a user. The sample project contains the following users:

5 Operation of the Application

5.2 Sample project

Table 5-1

User name	Password
User	user
Administrator	admin

Field 4 displays the user name of the logged in user.

Logging in a user is necessary for the following function.

Figure 5-3



If a user has logged in to the operator panel and a Sm@rtClient connects to the Sm@rtServer, this user interface appears.

A ten-second time window starts, in which the user can decide whether the connection may be established. An I/O field (1) displays the remaining time.

The time can be set in the WinCC project. For details, see the <u>Additional Notes</u> chapter.

The "Cancel" (2) button allows you to terminate the connection. Clicking the button disconnects all connected Sm@rtClients.

The I/O field (3) displays the IP address of the newly connected client so that the operator on site can decide whether this client gains access.

To allow the connection and to be able to access the operator panel, wait until the time expires. Then the previous screen is activated and the locally logged in user is logged out.

5 Operation of the Application

- 4

5.3 Sm@rtServiceMonitor <u>-</u>--

Figure 5-4				
7/30/2015 9:35 AM				
Check Sm@rtClie	ents			SIEMENS
🗲 🥕 🏠				
Sm@rtClients				
		Sm@rtClients		
		Remote Hosts:	Count:	
	1			
			Start Sm@rtServer	-(2)
New connected client:				
172.16.35.5				
Current user:				
Login				

This screen displays the IP addresses and the number of currently connected Sm@rtClients (1).

To disconnect the connected Sm@rtClients, the Sm@rtServer is restarted. If the Sm@rtServer does not start correctly, you can use the button (2) to start it manually.

5.3 Sm@rtServiceMonitor

If you are using the tool on a PC, you can copy a shortcut to the tool to the PC's Startup folder.

As can be seen in the screenshot below, the icon bordered in red in the Comfort Panel's/PC's taskbar indicates whether the tool has been started.

Figure 5-5



5.3 Sm@rtServiceMonitor

Double-clicking the icon opens the diagnostic window. It allows you to check whether the "Sm@rtServiceMonitor" tool works correctly.

igure 5-6				
nartSer	viceMonitor			
Туре	Timestamp	Message		
\begin{split} Info	22.08.2014 10:15:14	Checking connections		
🔍 Info	22.08.2014 10:15:14	Determinig local IP addresses		
👂 Info	22.08.2014 10:15:14	Processing connection for config section 1		
Į Info	22.08.2014 10:15:14	Writing output tags for config section 1		
🐌 Info	22.08.2014 10:15:14	Processing connection for config section 2		
🐌 Info	22.08.2014 10:15:22	Writing output tags for config section 2		
칮 Info	22.08.2014 10:15:22	Processing connection for config section 3		
🗼 Info	22.08.2014 10:15:22	Writing output tags for config section 3		
🐌 Info	22.08.2014 10:15:24	Checking connections		
🗼 Info	22.08.2014 10:15:24	Determinig local IP addresses		
칮 Info	22.08.2014 10:15:24	Processing connection for config section 1		
칮 Info	22.08.2014 10:15:24	Writing output tags for config section 1		
🐌 Info	22.08.2014 10:15:24	Processing connection for config section 2		
칮 Info	22.08.2014 10:15:32	Writing output tags for config section 2		
칮 Info	22.08.2014 10:15:32	Processing connection for config section 3		
칮 Info	22.08.2014 10:15:32	Writing output tags for config section 3		
칮 Info	22.08.2014 10:15:34	Checking connections		
칮 Info	22.08.2014 10:15:34	Determinig local IP addresses		
칮 Info	22.08.2014 10:15:34	Processing connection for config section 1		
칮 Info	22.08.2014 10:15:34	Writing output tags for config section 1	(3) (4)	
i) Info	22.08.2014 10:15:34	Processing connection for config section 2	ÝÝ	
	-			

If the "Auto Scroll" check box (1) is checked, the most recent messages are automatically displayed. However, you can also use the scroll bar (2) to search for old entries.

The "Hide" (3) button closes the diagnostic window.

The "Close" (4) button exits the tool.

6 Additional Notes

The time until the remote maintenance user gains access to the operator panel can be set in the WinCC (TIA Portal) project.

To do this, open the "Screen_User_Access" screen. Open the "Properties > Events" of the screen. Change the cycle of the "SimulateTag" system function with the "LogoutLocalUser" tag. The value corresponds to a multiple of 200 ms, i.e., for example, 50 for 10 seconds.

3						
Screen_User_Access [Screen]						
Properties	Animations Events	Texts				
	±∓ ⊟ ≣ ×					
💮 Loaded						
🛗 Cleared	 SimulateTag 					
	Tag (Input/output)	LogoutLocalUser				
	Cycle	50				
	Maximum value	1				
	Minimum value	0				
	Value	1				

Open the "Tags_SmartClient" tag table. For the "Logout_Time" tag, set the desired time in seconds as the start value.

F	Figure 6-2					
I	Logout_Time [HMI_Tag]					
I	Properties Eve		/ents	Texts		
l			Values			
I	General					
I	Settings		Val	Values		
I	Range			Start	value:	10
I	Linear scaling					
ł	Values					
ł	Comment					
ł	Multiplexing					
I	Good Manufact.	.	-			
1		•				
ñ						

7 Links & Literature

Table 7-1

	Торіс
\1\	Siemens Industry Online Support
\2\	Download page of the entry https://support.industry.siemens.com/cs/ww/en/view/109476153
\3\	SIMATIC WinCC Sm@rtClient for iOS https://itunes.apple.com/gb/app/simatic-wincc-sm-rtclient/id874209707
\4\	SIMATIC WinCC Sm@rtClient for Android https://play.google.com/store/apps/details?id=com.siemens.smartclient&hl=en
\5\	WinCC Advanced manual, Performance features Comfort Panel chapter https://support.industry.siemens.com/cs/ww/en/view/109091876/56146218635
\6\	Application example: SIMATIC HMI Option+ https://support.industry.siemens.com/cs/ww/en/view/109754400

8 History

Table 8-1

Version	Date	Modifications
V1.0	05/2015	First version
V1.1	08/2015	New for WinCC Runtime Advanced, description extended
V1.2	12/2016	TIA Portal V14 update
V1.3	12/2018	Description reduced to WinCC Runtime Advanced; starting with TIA Portal V15, Sm@rtServiceMonitor for Comfort Panels integrated into SIMATIC HMI Option+