



Siemens Comfort Panel Sm@rtServer Setup

Scott Henry – Automation Specialist

Rev. 2; April 22, 2020

Siemens Sm@rtServer allows users to remotely view Comfort Panel screens on a PC using the Siemens Sm@rtClient desktop app or a VNC viewer desktop app. The setup of Sm@rtServer consists of two steps: setup in the TIA Portal project and setup of the panel.

Sm@rtServer Setup in the HMI project

As a prerequisite, you must have Sm@rtServer settings enabled in the HMI project and the HMI project downloaded to the panel. Sm@rtServer settings are located in the Runtime Settings->Services section of the HMI project. Check the box next to 'Start Sm@rtServer' in the Remote Control section and check the box next to 'HTML pages' in the Diagnostics section.

roject tree	(demo12001500 → HN	ML_1 [TP700 Comfort] > Runtime settings
Devices		
ž 🔲 🖬	General	Services
	Services	
demo12001500	Screens	Remote control
Add new device	Good Manufacturin	Start Sm@rtServer
Devices & networks	Alarms	
PLC_1 [CPU 1215C DC/DC/DC] HML 1 [TT700 Comfort]	User administration	Read/write tags
Device configuration	Language & font	Operate as OPC-UA server
Q. Online & diagnostics	OPC settings	HTTP channel server
Runtime settings	Tag settings	
Creens		
Screen management		
HMI tags		Diagnostics
2 Connections	_	HTML pages
HMI alarms	-	
		SMTP communication

Once the settings are made, right click on the Comfort Panel in the project tree, expand 'Download to device' and select 'Software (All)'.



Sm@rtServer setup on the HMI

On the Comfort Panel, exit runtime (reboot panel) and click the Setting button in the Start Center menu to get to the Comfort Panel's Control Panel view.

	Start Center V15.1.0.4 Transfer Start Start Settings Taskbar	



Double click on the WinCC Internet Settings icon.

Sm@rtServer Web server/Diagnostics page username/password setup



Click on the Web Server tab and then the User Administration button.

The screenshot below shows the pop-up if an Administrator has already been set up. Type in the password and hit ok.



If no user has been set up, click on the New button and fill in the username and password. It is suggested that at least one Administrator be set up with all authorizations and also a backup Administrator. Hit the Apply button after creating each user.

/		- mi		
UserD	atabase-Edi	it	ок)	×
Users	Description	Authorizations]	
Admini	strator		-	
	6			1
User N	lam New	v user	New	
Passw	ord 3		Apply	5
Confin Passw	ord 4		Remove	
				~ I

When finished creating users, click on the OK button in the upper right. Click on the Yes button to restart the web server.



Once the users have been setup, you can setup their authorizations by clicking on the Authorizations tab.

Users	Descr	ription	Authoriz	ations		
Admini	strator					
User N	lame:	Admi	inistrator		New	
User N Passw	lame: ord:	Admi	inistrator **		New	y y

Adjust each users authorization by selecting the type of authorization and clicking on Add or Remove. Use the scroll bar to access additional authorizations.



When finished adjusting authorizations for a user, click on the Users tab and click on the OK button in the upper right hand corner to save the changes. A note will appear asking the user to restart the web server. Click Yes.

	WinC	C Interne	t Settings		ок	\times
ť	Email	Telnet	Web Server	r Rer	note	
	Tag (Note			\times	te
	0	The web Should thi	server need is happen au	s a rest Itomati	art. cally?	у
		Y	es	No		tion
		start automa after booting				. /er
		Close with Ri	untime	Close V	Veb-Se	rver

Password setup for Sm@rtClient or VNC app.

The following section describes how to set up the password for the Sm@rtClient or VNC app. This is needed in order to view the HMIs screens.

Select the Remote tab then click on the 'Change settings' button.

WinCC Internet	Settings	ок	\times	
Email Telnet \	Neb Server	Remote		
Change settings	Change set Sm@rtServ	tings of the er		
Start	Start the Sr	m@rtServer		
Stop	Stop the Sn	n@rtServer		
Start automatica	ally after boot	ting		
Close with Runti	me			

Click on the Password 1 field and type in the password and deselect 'View only'. Click on the Password 2 field and type in the password and select 'View only' Click the OK button when finished.

Sm@rtServer Settings	ок	\times
Server Polling Query Administration Certinon Incoming connections Disp Accept socket connections number Encrypt communication Image: Autor of the second sec	ificate lay or p bers to ay: 0 (m s 59 (H 58	Dort use nain) 100 TTP) 00
OK Cancel Ap	oply	

Click the Yes button to restart the web server.

		t Settings	ОК	\times			
Email	Telnet	Web Server	Remote				
(No	(Note X						
Tł Sh	ne remotir Iould this I	ng server need happen auton	ds a restari natically?	t.			
	Yes No						
Start automatically after booting							
Clo	ose with Ru	ntime					

How to login to HMI panel to remotely view screens

The following section describes how to log in to the panel and remotely view screens with the Sm@rtClient app.

The Sm@rtClient app can be downloaded from the following link. You must be logged in to the Siemens support site in order to download the file.

https://support.industry.siemens.com/cs/us/en/view/109482434

Put the file on your desktop and click to start.



Smart Client can also be found under Start button->Siemens Automation->Sm@rtClient



Type in the IP address of the HMI and press the Connect button.



If the PC is communicating with the HMI, the pop-up message below should appear.

Smartclient Connection	×
Connecting to 192.168.0.67	
Status: Authentication scheme requested.	
Hide	

Type in the password and click on the OK button.

Standard VNC Authentication X	
Sm@rtserver Host: 192.168.0.67	
Thumbprint: Show Server Certificate	
5D 87 44 0D 44 FD 47 E3 44 F8 04 80 47 C6 3A 66 4D 52 94 40	
User name: Password:	
Encrypt communication OK Cancel	

If the password is correct the user should the user should be logged in with Sm@rtClient and should see HMI screen on the PC.

How to access the web server and diagnostics screen

The following section describes how to access the web server of the panel to access diagnostic information and access files on the SD or USB cards.

Connect to the same network as the panel and open a web browser such as Firefox, Google Chrome, or Microsoft Edge and type in the IP address.

S Miniweb Start	Page × +				
← → C	Not secure 192.168.0.67/start.html				
SIMATIC HMI Miniweb on HMI_Panel					
Name Passwort Login	Miniweb Start Page				
▶ Start page	Welcome on HMI_Panel				
Remote Control Control Functions	Device Status of HMI_Panel The runtime is running				
System	General Device Information				
Diagnostics	Device Type	TP700 Comfort			
	Image version	V15.01.00.04_01.01			
File Browser	Bootloader version	1.10			
	Bootloader release date	22.2.2012			
	Device Name	HMI_Panel			
	Bulla MiniWab Build	V1501.0004.0101.0004			
		OnenSSI 1 1 1a 20 Nov 2018			
	OF LNGGL_VERSION	Opendol: 1.1.1a 201404 2010			
	Hint: When the devicename contains an underscore (One possible solution may be to use the IP addre	_) some browsers have a bug that makes it impossible to log in. ess of the device instead of the name, or to use another browser.			

Type in the username and password you created and click on Login. When you have logged in successfully, you will see a message that you are logged in at the upper right hand corner.

🚱 System Diagn	ostics	× +					
\leftrightarrow \rightarrow G (O Not secure	192.168.0.67/StatusDet	tails.html				
SIMATIC HMI Miniweb on HMI_Panel							
Welcome Administrator You are logged in. Logout	System	Diagnostics					
▶ Start page	System diag	nostics of HMI_Pan	lel				
▶ Remote Control	message number	timestamp state	message text				
	110001	21.04.2020 07:36:30 I	Change to operating mode 'online'.				
 Control Functions 	70018	20.04.2020 15:15:13 I	User administration imported successfully.				
	110001	20.04.2020 15:15:13 I	Change to operating mode 'online'.				
Diagnostics	70022	20.04.2020 15:15:13 I	User administration import started.				
Diagnostics	270006	20.04.2020 15:15:12 I	Project modified: Alarms cannot be restored from the persistent alarm buffer.				
File Browser							

