







System Diagnostics in the Siemens Comfort Panel

Revision Date: 04/26/2020 In the world of automation, detailed diagnostic information can be used to quickly diagnose errors and get your plant or machine running again. In the following example, the following hardware and software will be used to demonstrate how to set up a System Diagnostic view in the Siemens HMI.

- S7-1500 CPU
- ET200SP Remote I/O
- Comfort Panel
- TIA Portal Professional V16
- WinCC Comfort V16

Please note that there are a number of ways to accomplish the end goal. The following is one of several methods.



• Double-click on the TIA Portal V16 desktop icon to start Portal.

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- Click on "Create new project".
- Type a project name and select a storage path.
- Click on "Create".
- Click on "Project View".

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- Double click "Add new device".
- Select "Controllers".
- Select the CPU that matches the CPU that you are using.
- Select the firmware that matches the firmware of the CPU that you are using.
- Check the box for "Open device view".
- Click on "OK".

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- Select the CPU.
- Select the "Properties" tab.
- Select "Ethernet addresses".
- Click on "Add new subnet". You can use the default name or create your own name for the network.
- Set the IP address.

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- Select the CPU if not already highlighted.
- Click on the download button in the toolbar.

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- Select PN/IE for "Type of PG/PC interface". Select the appropriate interface for your lapt op for "PG/PC interface". Select the subnet name that was created for the CPU for "Connection to interface/subnet".
- Click on "Start search".
- Once the CPU has been found, select it.
- Click on "Load".
- If your laptop is NOT on the same subnet as the CPU, the software will prompt you to create an IP address on the CPU subnet.
- Complete any additional prompts to complete the download.

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- Select the "Network view" tab.
- **Double-c**lick on the appropriate ET200SP module from the catalog.

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- Select the "Device view" tab.
- In the pull-down, select the IO device that was just created.
- Select the "Properties" tab.
- Select "PROFINET interface [X1]
- Select the subnet created earlier.
- Set the IP address.

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 Scroll down to the "PROFINET" section and un-check "Generate PROFINET device name automatically". Type new "PROFINET device name". Please note that a Profinet device name is not case-sensitive, can contain letters, numbers, or dashes. The name cannot contain spaces, special characters, or underscores.

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• Either double-click or click-and-drag the appropriate I/O modules to populate the rack.

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- Select the "Network view" tab.
- Click on the "Not assigned" hyperlink and select the PLC IO Controller.

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- Select the "Device view" tab.
- Select the IO device from the pull-down menu.
- Right-click on the bus module and click on "Assign device name".

ssign PROFINET device	e name.					×
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Click on "I	Jpdate list".					
 Select the 	found device	ce.				

- Click on "Assign name".
- Click on "Close".

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- Select the PLC in the pull-down menu.
- Select the CPU.
- Click on download button in the tool bar.

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- Double-click on "Add new device".
- Select "HMI".
- Select the appropriate HMI.
- Uncheck the box for "Start device wizard".
- Click on "OK".

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- Double click on "Device configuration" under the HMI.
- Select the HMI in the Device view.
- Select the "Properties" tab.
- Select "PROFINET interface [X1].
- Select the subnet that was created in the CPU.
- Set the IP address.

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- Select the "Network view" tab.
- Click on "Connections". Select "HMI connection" from the pull-down.
- Click-and-hold the Ethernet port of the CPU and drag-then-release on the Ethernet port of the HMI.

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- Double-click on "Runtime settings".
- Select "Alarms".
- Check the boxes for "S7 diagnostic alarms", "SIMOTION diagnostic alarms", and "With event text".

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- Double-click on "Screen_1".
- Click and drag "Systems diagnostics view" onto the screen. Resize as needed.

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- Select the HMI in the project tree.
- Click on the download button in the tool bar.
- Select PN/IE for "Type of PG/PC interface". Select the appropriate interface for your lapt op for "PG/PC interface". Select the subnet name that was created for the CPU for "Connection to interface/subnet".
- Click on "Start search".
- Once the HMI has been found, select it.
- Click on "Load". This completes the needed configuration.

SIMATIC WinCC Runtime Advan	ME	NS		SIM	ATIC HN	AI
	Alagnost Status	tic overview Name Plant S71500/ET200MP station 1	Oper Slot	Type 571500/ET2	Order num	TOUCH

• The diagnostic overview should show that everything is OK.

SIMATIC WinCC Runtime Advanced	- 0 - X -	SIMATIC WinCC Runtime Advanced	
SIEMENS	SIMATIC HMI	SIEMENS	SIMATIC HMI
Diagnostic securice: Cataus: Name: Oper Slot Catau: SylSoceT200MP states 1	Druber mark	S71500/ET200MP station_1 Satura Name Satura Name Satura Name Satura Name PROFINET IO-System	Vyc Order nam S72000(7)200. Ord 13163 N (627 5163

- After removing a module from the ET200SP rack, an error will appear.
- Double-click on "Station 1" to view more details of the station.

30 SIMATIC WinCC Purifime Advanced		SMATIC WinCC Runtime Advanced	
SIEMENS	SIMATIC HMI	SIEMENS	SIMATIC HMI
S71500/ET200MP station_1 Status Name Op 1 S71500120290201001	er Slot Type Order num	S71500/E1200MP station_1 \ PLC_1 Status Rame Opera. Slot	Type Order num CPU 1516-3 PN. 6527 516-3 R0PCIPT rate, 6627 516-3
S Rorbert to System	CH I	2 Port_1 1 2 Port_2 1 2 POPTITY Tetraface_2 1 2 Port_1 1 2 DP refrace_1 1	Port 6557 5163 Port 6557 5163 Port net 6557 5163 Port 6557 5163 DP netrface 6557 516-3
	,		•

• Double-click on "PLC_1" to view details of the rack.

SIMATIC WinCC Runtime Advanced				SIMATIC WinCC Runtime Advanced					
SIEMENS \$71500/E7200MP station_1 \ PLC_1 Status Name	Oper Slot	SIMATIC HMI	TOU	SIEN	AENS 500/ET200MP station_1 \ PLC_1 us Name	\PROFINET interface_1 Oper Slot	SIMA		TO
PROFILE Interface_1 Proc.2 Port_2 Port_2 Port_1 DP interface_1 OP interface_1		PROFINET rea 6457 516-3 Port 6457 516-3 PORTINET rea 6457 516-3 PORTINET rea 6457 516-3 DP rterface 6457 516-3 DP rterface 6457 516-3	JCH		PROFINET IO-System		POUL	(czzzz) ↓	JCH

• Double-click on "PROFINET interface_1" to view details of the Profinet interface.

SIMATIC WinCC Runtime Advanced		I SIMATIC WinCC Runtime Advanced	
SIEMENS \$71500/FT200MP station_1 \ PLC_1 \ PROFINET int		SIEMENS	
Status Name Opera. S Compared State State State PROFINET IO-System		PROFINET IO System 192.168.200.10	
	- ,		

• Double-click on "PROFINET IO-System" to view details of the Profinet network.

SIMATIC WinCC Runtime Advanced		SIMATIC WinCC Runtime Advanced	
SIEMENS	SIMATIC HMI	SIEMENS	SIMATIC HMI
\$71500/[1200HP station_1] PLC] 1040400 PROFINIT ID -System 10356 192.166.200.10 10356 101 102.166 102 102.166 103 102.166 104 104.066 105 105.066 105 105.066 106 106.066 107 100.066 108	Contraction of the system of t	\$71500/f120008P audion:1 \PLC_1 \PRC Status 10 devec.1 10 devec.1 20 10 devec.1 20 10 devec.1 20 10 devec.1 20 0 162400 C/0.54 st_1 3 0 0 162400 C/0.54 st_1 2 1 Server module_1	PURCHARE_1_VP00FUNCTIOSV00device_T Operand Side Vpoor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

• Double-click on "IO device_1" to view details of the remote rack.

	SIMATIC HMI	SIMATIC WinCC Runtime Advanced	
S71500/FT200MP station_1 \ PIC_1 \ PROFINET interface_1 \ P Status Name Oper Sof 0 0 dence_1 0 0 0 dence_2 0 0 dence_	ROFINET IO S 10 device 1 Type Order num Phi 1356 PM 2 Order source of CES 1136 Of BacAPOCY (CES 1132) Di BacAPOCY (CES 1132) Di BacAPOCY (CES 1132)	S71500/ET200MP station_1 V PIC_1 V PROFINET Inter > Status > Name DQ 16624/DQ(0.5A ST_1) > Optiming state > Soc 2 > Status Soc > Soc 2 (5624/DQ(0.5A ST_1)) > Optiming state Soc > Soc 2 (5624/DQ(0.5A ST_1)) > Optiming state Soc > Soc 2 (5624/DQ(0.5A ST_1)) > Optiming state Soc > Boottam state Soc > Reduction state Soc > Society state Society state > Society state <td< td=""><td></td></td<>	

- Double-click on the faulted I/O card to view details on the error.
- Click on the "Home" button to return to the start of the diagnostic overview.

	SIMATIC HMI	SIE	MENS		SIMATIC HMI	
Biagnostic overview Status Nome Oper Slot → Per → S73500ET2004P station 1	Fipe Order mark		1500/ET200MP station. J \ 1 in Date Time 11 1/4/2012 531:31 12 1/4/2012 549:12 13 1/4/2012 549:02 14 1/4/2012 549:02 15 1/4/2012 549:07 15 1/4/2012 547:27 16 1/4/2012 547:27 10 1/4/2012 547:27 10 1/4/2012 54:34 11 1/4/2012 54:34 11 1/4/2012 54:34 12 1/4/2012 54:34 14 1/4/2012 54:34 14 1/4/2012 54:34 14 1/4/2012 54:34 14 1/4/2012 54:34 14 1/4/2012 54:34 14 1/4/2012 54:34 14 1/4/2012 54:34 14 1/4/2012 54:34 14 1/4/2012 54:34 14 1/4/2012	PLC_1_\Diagnostic buffer view Event Hardware component removed or masing Hardware component removed or masing Hardware component removed or masing User data failer of hardware component Hardware component removed or masing User data failer of hardware component 10 device failer - User data failer of hardware component 10 device failer - User data failer of hardware component 10 device failer - User data failer of hardware component 10 device failer - Watchdog time sprete Fellow on operating mode charge CPU		TOUCH

• You can also view error details in the Diagnostic Buffer. Click on the "Envelope/CPU" button to view the Diagnostic Buffer of the CPU.

SIEMENS		SIMATIC HMI
373500/F12000/P station: 11 P/C: 11 Diagnostic baffer view More View VIEW <tr< td=""><td>Image: State Stat</td><td>vitic baffer vitev \ Detail view be addressed. sef-assembly badgline bus and power segments. r supervise.</td></tr<>	Image: State Stat	vitic baffer vitev \ Detail view be addressed. sef-assembly badgline bus and power segments. r supervise.

• Double-click on any message to view the message detail