

Totally Integrated  
Automation Portal

## Safety PLC example

### Project

<b>Name:</b>	Safety PLC example	<b>Creation time:</b>	2/12/2023 7:26:13 AM
<b>Last change</b>	2/16/2023 11:21:17 AM	<b>Author:</b>	Mahmoud muhamed
<b>Last modified by:</b>	PLC Traning	<b>Version:</b>	
<b>Comment:</b>			

### Operating system

Name	Description
Operating system	Microsoft Windows 10 Pro
Version of the operating system	6.3.9600.0
Operating system service pack	
Version of the Internet Explorer	11.1411.18362.0
Computer name	DESKTOP-O4DT62G
User name	DESKTOP-O4DT62G\PLC Traning
Installation path of the TIA Portal	C:\Program Files\Siemens\Automation\Portal V16

### Components

Name	Version	Release
TIA Portal Multiuser Server V14 - TIA Portal Multiuser Server Single SetupPackage V14.0 SP1 (MUSERSERVERV14)	V14.0 + SP1	V14.00.01.00_12.01.00.01
TIA Portal Project Server V16 - TIA Portal Project Server Single SetupPackage V16.0 (MUSERVERV16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V14 - SIMATIC S7-PLCSIM V14.0 + SP1 (S7_PLCSIM_V14)	V14.0 + SP1	V14.00.01.00_12.01.00.01
Siemens Totally Integrated Automation Portal V16 - SIMATIC S7-PLCSIM V16.0 (S7_PLCSIM_V16)	V16.0	V16.00.00.00_31.00.13.01
TIA Administrator - AWB Licensing Module V1.0 + SP2 (TIAADMIN)	V1.0 + SP2	V01.00.02.00_01.10.00.01
TIA Administrator - AWB Software Management V1.0 + SP2 (TIAADMIN)	V1.0 + SP2	V01.00.02.00_01.10.00.01
TIA Administrator - TIA UMC Agent Configurator Module V1.0 + SP2 (TIAADMIN)	V1.0 + SP2	V01.00.02.00_01.10.00.01
TIA Administrator - TIA Administrator V1.0 SP2 (TIAADMIN)	V1.0 + SP2	V01.00.02.00_01.10.00.01
Siemens Totally Integrated Automation Portal V16 - HM All Editions Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - HM NoBasic Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - Hardware Support Base Package 0 V16.0 (TIAP16)	V16.0	V16.00.00.00_27.01.00.01
Siemens Totally Integrated Automation Portal V16 - Multiuser Client Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - Version Control Interface SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - STEP 7 Safety Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
Siemens Totally Integrated Automation Portal V16 - SINAMICS Startdrive G110M, G120, G120C, G120D, G120P V16.0 (TIAP16)	V16.0	V16.00.00.00_20.00.00.04

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Name	Version	Release	
Siemens Totally Integrated Automation Portal V16 - Startdrive Hardware Support Base Package 1 V16.0 (TIAP16)	V16.0	V16.00.00.00_20.00.00.04	
Siemens Totally Integrated Automation Portal V16 - SINAMICS-STARTDRIVE-COMMON V16.0 (TIAP16)	V16.0	V16.00.00.00_20.00.00.04	
Siemens Totally Integrated Automation Portal V16 - SINAMICS-STARTDRIVE-COMMON-OPENNESS V16.0 (TIAP16)	V16.0	V16.00.00.00_20.00.00.04	
Siemens Totally Integrated Automation Portal V16 - SINAMICS-STARTDRIVE-COMMON-SAT V16.0 (TIAP16)	V16.0	V16.00.00.00_20.00.00.04	
Siemens Totally Integrated Automation Portal V16 - SINAMICS Startdrive G130, G150, S120, S150, SINAMICS MV V16.0 (TIAP16)	V16.0	V16.00.00.00_20.00.00.04	
Siemens Totally Integrated Automation Portal V16 - STEP 7 Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01	
Siemens Totally Integrated Automation Portal V16 - Hardware Support Base Package 02 V16.0 (TIAP16)	V16.0	V16.00.00.00_27.01.00.01	
Siemens Totally Integrated Automation Portal V16 - Hardware Support Base Package 03 V16.0 (TIAP16)	V16.0	V16.00.00.00_27.01.00.01	
Siemens Totally Integrated Automation Portal V16 - Hardware Support Base Package 04 V16.0 (TIAP16)	V16.0	V16.00.00.00_27.01.00.01	
Siemens Totally Integrated Automation Portal V16 - Support Base Package TO-01 V16.0 (TIAP16)	V16.0	V16.00.00.00_27.01.00.01	
Siemens Totally Integrated Automation Portal V16 - Support Base Package TO-02 V16.0 (TIAP16)	V16.0	V16.00.00.00_27.01.00.01	
Siemens Totally Integrated Automation Portal V16 - Hardware Support Base Package WCF-01 V16.0 (TIAP16)	V16.0	V16.00.00.00_27.01.00.01	
Siemens Totally Integrated Automation Portal V16 - TIACOMP CHECK Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01	
Siemens Totally Integrated Automation Portal V16 - Simatic Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01	
Siemens Totally Integrated Automation Portal V16 - WinCC Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01	
Siemens Totally Integrated Automation Portal V16 - Openness SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01	
Siemens Totally Integrated Automation Portal V16 - WinCC Transfer Mandatory Single SetupPackage V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01	
User Management Component - UserManagementComponentx64 V2.7 (UMC64)	V2.7	V02.07.00.00_04.06.00.07	
WinCC Runtime Advanced V16.0 - HMIRTM Tagging Package 01 Single SetupPackage V16.0 (HMIRTM_V11)	V16.0	V16.00.00.00_31.02.00.01	
WinCC Runtime Professional V16 - SIMATIC WinCC Runtime V16.0 (SCADA-RT_V11)	V16.0	V07.05.56.00_01.43.00.01	
WinCC Runtime Professional V16 - OPCUA_Client V1.1 + SP1 (SCADA-RT_V11)	V1.1 + SP1	V01.01.01.00_01.11.00.01	
WinCC Runtime Professional V16 - SCADA Simulation Single SetupPackage V16.0 (SCADA-RT_V11)	V16.0	V16.00.00.00_31.02.00.01	
Siemens Totally Integrated Automation Portal V16 - Simatic Single SetupPackage 32 Bit V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01	
Siemens Totally Integrated Automation Portal V16 - WinCC Single SetupPackage 32 Bit V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01	

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<b>Name</b>			
<b>Version</b>			
<b>Release</b>			
SIMATIC HMI License Manager Panel Plugin (x64)	16.0.0.0	V16.00.00.00_31.02.00.01	
SIMATIC WinCC Runtime Advanced Driver (x64)	16.0.0.0	V16.00.00.00_31.02.00.01	
ETWEventCollector	16.0.0.0	V16.00.00.00_31.02.00.01	
SIMATIC NCM FWL 64	5.6.0.3	K5.6.0.3_1.1.0.2	
NCM GPRS 64	01.02.00.00	V1.2.0.0_2.1.0.1	
SIMATIC PLCSIM 64	16.00.00	16.00.00.00_01.00.02.01	
SIMATIC Device Drivers	9.2	09.02.04.00_01.04.00.05	
TelemetryConnector	1.0.2.57	V01.00.02.57_01.00.00.01	
Automation Access Control Component	4.0	K04.00.01.00_01.01.00.01	
Automation Software Updater	02.05.0300	V02.05.03.00_01.01.00.29	
SIMATIC Colour Editor	5.2.2.0	K5.2.2.0_2.1.0.1	
SIMATIC HMIProvider	7.0	K07.00.03.01_01.01.00.01	
License Logon Interface	4.0	K04.00.03.00_01.01.00.02	
SIEMENS OPC	3.9	03.09.10.00_01.04.00.08	
SIMATIC HMI ProSave	16.0.0.0	V16.00.00.00_31.02.00.01	
SIMATIC HMI Symbol Library	16.0.0.0	V16.00.00.00_31.02.00.01	
SIMATIC HMI Touch Input	16.0.0.0	V16.00.00.00_31.02.00.01	
SIMATIC Runtime Interfaces	2.1	K02.01.00.03_01.01.00.01	
SIMATIC Version View	1.7.11.0	K1.7.11.0_6.1.0.2	
SIMATIC Common Services	5.3.15.0	K5.3.15.0_1.1.0.1	
SIMATIC Device Drivers WoW	29.2	29.02.04.00_01.04.00.05	
SIMATIC Event Database	5.6	05.06.02.00_01.01.00.01	
SIMATIC GSD CONTROL	3.5.7.0	K3.5.7.0_2.1.0.1	
SIMATIC GSD Interpreter	2.6.0.0	V2.6.0.0_8.1.0.1	
SIMATIC Interface Editor	5.4.19.0	K5.4.19.0_1.1.0.1	
SIMATIC Extended Interfaces	5.4.7.0	K5.4.7.0_2.1.0.1	
SIMATIC LanguageSupportTool	5.8.4.0	K5.8.4.0_2.1.0.1	
SIMATIC NCM	5.6.0.0	V5.6.0.0_30.4.0.3	
SIMATIC Process Diagnosis Base	5.3.13.0	K5.3.13.0_1.1.0.1	
SIMATIC Process Diagnosis Database	5.3.6.3	K05.03.06.03_01.01.00.01	
SIMATIC DIAGNOSTIC REPEATER GUI CTRL	5.2.3.0	K5.2.3.0_1.1.0.1	
SIMATIC Grid Control	2.6.0.0	V2.6.0.0_2.1.0.1	
SIMATIC S7-Status-OCX	5.3.12.0	K5.3.12.0_2.1.0.1	
SIMATIC Technological Parameter Assignment	5.3.12.0	K5.3.12.0_3.1.0.1	
SIMATIC X-Ref Control	5.2.8.0	K5.2.8.0_2.2.0.1	
SeCon	2.6	V02.06.01.00_01.08.00.01	
SIMATIC Station Observer	K7.3.1.0	V07.03.01.00_01.01.00.14	
SIMATIC SCS	K7.5.2.2	V07.05.02.02_01.03.00.04	
SIMATIC WinCC Common Archiving	V7.5.0.0	V07.05.56.00_01.43.00.01	
WinCC Runtime Advanced Simulator	16.0.0.0	V16.00.00.00_31.02.00.01	
<b>Products</b>			
<b>Name</b>			
<b>Version</b>			
<b>Release</b>			
TIA Portal Multiuser Server	V14.0 SP1	V14.00.01.00_12.01.00.01	
TIA Portal Project Server	V16.0	V16.00.00.00_31.02.00.01	
SIMATIC S7-PLCSIM	V14.0 SP1	V14.00.01.00_12.01.00.01	
SIMATIC S7-PLCSIM	V16.0	V16.00.00.00_31.00.13.01	
TIA Administrator	V1.0	01.00.02.00_01.10.00.01	
SIMATIC STEP 7 Professional	V14.0 SP1	V14.00.01.00_12.01.00.01	
SIMATIC WinCC Basic	V14.0 SP1	V14.00.01.00_12.01.00.01	
SINAMICS G110M, G120, G120C, G120D, G120P	V16.0	V16.00.00.00_20.00.00.04	
SINAMICS G130, G150, S120, S150, SINAMICS MV, S210	V16.0	V16.00.00.00_20.00.00.04	
SIMATIC STEP 7 Prof - STEP 7 Safety - WinCC Prof	V16.0	V16.00.00.00_31.02.00.01	
User Management Component	V2.7	V02.07.00.00_00.00.00.00	
SIMATIC WinCC Runtime Advanced Simulation	V16.0	V16.00.00.00_31.02.00.01	
SIMATIC WinCC Runtime Professional Simulation	V16.0	V16.00.00.00_31.02.00.01	

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Name	Version	Release
TIA Portal Cloud Connector	V1.1	01.01.00.00_01.10.00.01
Automation License Manager	V6.0 + SP5 + Upd1	06.00.05.01_02.01.00.05
S7-PLCSIM	V5.4 + SP8	V05.04.08.01_01.24.00.01
SIMATIC ProSave	V16.0	V16.00.00.00_31.02.00.01
Primary Setup Tool	V4.2 + HF1	K4.2.0.1_13.1.0.1
SIMATIC S7-Block Privacy	V1.0 + SP4	K1.0.4.0_9.1.0.1
S7-PCT	V3.5 + SP1	K3.5.1.0_1.19.0.1
STEP 7	V5.6	V5.6.0.0_30.4.0.3
SIMATIC S7-Web2PLC	V1.0 + SP3	K1.0.3.0_8.1.0.1

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Automation Portal

## Safety PLC example

## PLC\_1 [CPU 1515TF-2 PN]

PLC\_1

## General\Project information

Name	PLC_1	Author	PLC Training
Comment		Rack	0
Slot	1		

## General\Catalog information

Short designation	CPU 1515TF-2 PN	Description	Fail-safe technology CPU with display; work memory 750 KB code and 3 MB data; can be used for safety applications; supports PROFSafe V2; 30 ns bit operation time; 5-stage protection concept, technology functions: extended motion control, closed-loop control, counting and measuring; tracing; Runtime options; isochronous mode (central); for all PROFINET interfaces: transport protocol TCP/IP, secure Open User Communication, S7 communication, S7 routing, IP forwarding, Web server, DNS client, OPC UA: Server DA, Client DA, methods, companion specifications; 1st interface: PROFINET IO controller, supports RT/IRT, performance upgrade PROFINET V2.3, 2 ports, I-Device, MRP, MRPD, isochronous mode; 2nd interface: PROFINET IO controller, supports RT, I-Device; firmware V2.8
Article number	6ES7 515-2UM01-0AB0	Firmware version	V2.8

## General\Identification &amp; Maintenance

Plant designation		Location identifier	
Installation date	2023-02-12 12:56:35.524	Additional information	

## General\Checksums

Text lists	FA 70 E8 75 1D 5A 8E 29	Software	BC 3B 30 88 D3 B6 6D 91
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## Fail-safe\F-activation

F-capability activated	1		
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## Fail-safe\F-parameters

Central F-source address	1		Default F-monitoring time for central F-I/O	150ms	
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## Fail-safe\F-parameters\F-destination address range for PROFSafe address type 1

Low limit for F-destination addresses	1		High limit for F-destination addresses	99	
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## PROFINET interface [X1]\General

Name	PROFINET interface_1	Author	PLC Training
Comment			

## PROFINET interface [X1]\F-parameters

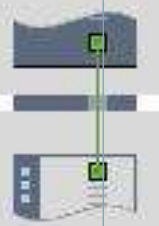
Default F-monitoring time for F-I/O of this interface	150ms		
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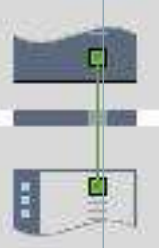

## PROFINET interface [X1]\Ethernet addresses\Interface networked with


Subnet:	Not connected		
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## PROFINET interface [X1]\Ethernet addresses\IP protocol

IP configuration	Set IP address in the project	IP address:	192.168.0.1
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Subnet mask:	255.255.255.0	Use router	False
<b>PROFINET interface [X1]\Ethernet addresses\PROFINET</b>			
PROFINET device name is set directly at the device	False	Generate PROFINET device name automatically	True
PROFINET device name:	plc_1.profinet interface_1	Converted name:	plcxb1.profinetxainterfacexb1036c
Device number:	0		
<b>PROFINET interface [X1]\Time-of-day synchronization\NTP mode</b>			
Note	Time synchronization for all PROFINET interfaces take place within the settings for time synchronization of the PROFINET interface [X1].	Enable time synchronization via NTP server	False
	IP addresses	Server 1	0.0.0.0
Server 2	0.0.0.0	Server 3	0.0.0.0
Server 4	0.0.0.0	Update interval	10s
<b>PROFINET interface [X1]\Operating mode</b>			
IO controller	True	IO system	
Device number	0	IO device	False
<b>PROFINET interface [X1]\Advanced options\Interface options</b>			
Call the user program if communication errors occur	False	Support device replacement without exchangeable medium	True
Permit overwriting of device names of all assigned IO devices	False	Limit data infeed into the network	True
Use IEC V2.2 LLDP mode	False	Keep-Alive connection monitoring:	30s
<b>PROFINET interface [X1]\Advanced options\Real time settings\IO communication</b>			
Send clock:	4.000ms		
<b>PROFINET interface [X1]\Advanced options\Real time settings\Synchronization</b>			
RT class:	RT,IRT		
<b>PROFINET interface [X1]\Advanced options\Real time settings\Real time options</b>			
Calculated bandwidth for cyclic IO data:	0.000ms	Calculated bandwidth for cyclic IO data:	0.000%
<b>PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\General</b>			
Name	Port_1	Author	PLC Training
Comment			
<b>PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Local port:</b>			
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_1 [X1 P1 R]	Medium:	Copper
Cable name:	---		
			
<b>PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Partner port:</b>			
	Monitoring of partner port is not possible	Alternative partners	False
Partner port:	Any partner		
<b>PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Activate</b>			
Activate this port for use	True		

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<b>PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Connection</b>		
Transmission rate / duplex:	Automatic	Monitor: False
Enable autonegotiation	True	
<b>PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Boundaries</b>		
End of detection of accessible devices	False	End of topology discovery: False
End of the sync domain	False	
<b>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\General</b>		
Name	Port_2	Author: PLC Traning
Comment		
<b>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Local port:</b>		
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_2 [X1 P2 R]	Medium: Copper
Cable name:	---	
		
<b>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Partner port:</b>		
	Monitoring of partner port is not possible	Alternative partners: False
Partner port:	Any partner	
<b>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Activate</b>		
Activate this port for use	True	
<b>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Connection</b>		
Transmission rate / duplex:	Automatic	Monitor: False
Enable autonegotiation	True	
<b>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Boundaries</b>		
End of detection of accessible devices	False	End of topology discovery: False
End of the sync domain	False	
<b>PROFINET interface [X1]\Web server access</b>		
Note	The Web server must also be activated in the properties of the PLC.	Enable Web server via IP address of this interface: False
<b>PROFINET interface [X2]\General</b>		
Name	PROFINET interface_2	Author: PLC Traning
Comment		
<b>PROFINET interface [X2]\F-parameters</b>		
Default F-monitoring time for F-I/O of this interface	150ms 	
<b>PROFINET interface [X2]\Ethernet addresses\Interface networked with</b>		
Subnet:	Not connected	
<b>PROFINET interface [X2]\Ethernet addresses\IP protocol</b>		
IP configuration	Set IP address in the project	IP address: 192.168.1.1
Subnet mask:	255.255.255.0	Use router: False

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<b>PROFINET interface [X2]\Ethernet addresses\PROFINET</b>					
<b>PROFINET device name is set directly at the device</b>	False	<b>Generate PROFINET device name automatically</b>	True		
<b>PROFINET device name:</b>	plc_1.profinet interface_2	<b>Converted name:</b>	plcxb1.profinetxainterfacexb2022c		
<b>Device number:</b>	0				
<b>PROFINET interface [X2]\Time-of-day synchronization\NTP mode</b>					
<b>Note</b>	Time synchronization for all PROFINET interfaces take place within the settings for time synchronization of the PROFINET interface [X1].		<b>Enable time synchronization via NTP server</b>	False	
	IP addresses	<b>Server 1</b>	0.0.0.0		
<b>Server 2</b>	0.0.0.0		<b>Server 3</b>	0.0.0.0	
<b>Server 4</b>	0.0.0.0		<b>Update interval</b>	10s	
<b>PROFINET interface [X2]\Operating mode</b>					
<b>IO controller</b>	True		<b>IO system</b>		
<b>Device number</b>	0		<b>IO device</b>	False	
<b>PROFINET interface [X2]\Advanced options\Interface options</b>					
<b>Call the user program if communication errors occur</b>	False		<b>Support device replacement without exchangeable medium</b>	True	
<b>Permit overwriting of device names of all assigned IO devices</b>	False		<b>Limit data infeed into the network</b>	False	
<b>Use IEC V2.2 LLDP mode</b>	False		<b>Keep-Alive connection monitoring:</b>	30s	
<b>PROFINET interface [X2]\Advanced options\Real time settings\IO communication</b>					
<b>Send clock:</b>	1.000ms				
<b>PROFINET interface [X2]\Advanced options\Real time settings\Real time options</b>					
<b>Calculated bandwidth for cyclic IO data:</b>	0.000ms		<b>Calculated bandwidth for cyclic IO data:</b>	0.000%	
<b>PROFINET interface [X2]\Advanced options\Port [X2 P1]\General</b>					
<b>Name</b>	Port_1		<b>Author</b>	PLC Traning	
<b>Comment</b>					
<b>PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port interconnection\Local port:</b>					
<b>Local port:</b>	PLC_1PROFINET interface_2 [X2]\Port_1 [X2 P1]		<b>Medium:</b>	Copper	
<b>Cable name:</b>	---				
					
<b>PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port interconnection\Partner port:</b>					
	Monitoring of partner port is not possible	<b>Alternative partners</b>	False		
<b>Partner port:</b>	Any partner				
<b>PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Activate</b>					
<b>Activate this port for use</b>	True				
<b>PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Connection</b>					
<b>Transmission rate / duplex:</b>	Automatic		<b>Monitor</b>	False	



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Enable autonegotiation		True	
<b>PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Boundaries</b>			
End of detection of accessible devices	False	End of topology discovery	False
End of the sync domain	False		
<b>PROFINET interface [X2]\Web server access</b>			
Note	The Web server must also be activated in the properties of the PLC.		Enable Web server via IP address of this interface
			False
<b>Startup</b>			
Startup after POWER ON	Warm restart - Operating mode before POWER OFF	Comparison preset to actual configuration	Startup CPU even if mismatch
Configuration time	60000ms		
<b>Cycle</b>			
Maximum cycle time	150ms		
Enable minimum cycle time for cyclic OBs	True	Minimum cycle time	1ms
<b>Communication load</b>			
Cycle load due to communication	20%		
<b>System and clock memory\System memory bits</b>			
Enable the use of system memory byte	False	Address of system memory byte (MBx)	1
First cycle		Diagnostic status changed	
Always 1 (high)		Always 0 (low)	
<b>System and clock memory\Clock memory bits</b>			
Enable the use of clock memory byte	False	Address of clock memory byte (MBx)	0
10 Hz clock		5 Hz clock	
2.5 Hz clock		2 Hz clock	
1.25 Hz clock		1 Hz clock	
0.625 Hz clock		0.5 Hz clock	
<b>SIMATIC Memory Card\Diagnostics</b>			
Aging of the SIMATIC memory card	False	Threshold value	80%
<b>System diagnostics\General</b>			
Activate system diagnostics for this device	True	Report network faults as maintenance instead of fault	False
<b>PLC alarms\General</b>			
Central alarm management in the PLC	True		
<b>Web server\General</b>			
Activate web server on this module	False	Permit access only with HTTPS	True
<b>Web server\Automatic update</b>			
Enable automatic update	True	Update interval	0s
<b>Web server\User management</b>			
User name		User rights	
Everybody			
<b>Web server\User-defined web pages</b>			
Application name	HTML source path	Default HTML page	Files with dynamic content
		index.htm	.htm;.html
			Web DB number
			333
			Fragment DB number
			334

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<b>Web server\Overview of interfaces</b>		
<b>Device</b>	<b>Interface</b>	<b>Enabled web server access</b>
PLC_1	PROFINET interface_1	False
PLC_1	PROFINET interface_2	False
<b>Display\General\Display standby mode</b>		
<b>Time to standby mode</b>	30 minutes	
<b>Display\General\Energy saving mode</b>		
<b>Time to energy saving mode</b>	15 minutes	
<b>Display\General\Display language</b>		
<b>Default language on display</b>	English	
<b>Display\Automatic update</b>		
<b>Time to update</b>	5 seconds	
<b>Display&gt;Password\Display protection</b>		
<b>Enable write access</b>	True	<b>Enable display protection</b> False
<b>Display\User-defined logo</b>		
<b>User logo activated</b>	False	<b>Adapt logo</b> False
<b>Resolution</b>	240x260	<b>Company logo</b> ---
<b>User interface languages</b>		
<b>Assign project language</b>	<b>User interface languages</b>	
English (United States)	German	
English (United States)	English	
English (United States)	French	
English (United States)	Spanish	
English (United States)	Italian	
English (United States)	Japanese	
English (United States)	Chinese (simplified)	
English (United States)	Korean	
English (United States)	Russian	
English (United States)	Turkish	
English (United States)	Portuguese (Brazil)	
<b>Time of day\Local time</b>		
<b>Time zone</b>	(UTC) Dublin, Edinburgh, Lisbon, London	
<b>Time of day\Daylight saving time</b>		
<b>Activate daylight saving time</b>	True	<b>Difference between standard and daylight saving time</b> 60mins
<b>Time of day\Daylight saving time\Start of daylight saving time</b>		
<b>Selection of the week of</b>	Last	<b>Selection of the week-day at</b> Sunday
	March	01:00 a.m.
<b>Time of day\Daylight saving time\Start of standard time</b>		
<b>Selection of the week of</b>	Last	<b>Selection of the week-day at</b> Sunday
	October	02:00 a.m.
<b>Protection</b>		
<b>Level of protection</b>	Full access with fail-safe (no protection)	
<b>Protection\Connection mechanisms</b>		
<b>Permit access with PUT/GET communication from remote partner</b>	False	

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<b>Protection\Security event</b>				
<b>Summarize security events in case of high message volume</b>	True	<b>Length of an interval</b> 20		
<b>Unit</b>	seconds			
<b>OPC UA\Accessibility of the server</b>				
<b>Activate OPC UA server</b>	False			
<b>System power supply\General</b>				
<b>General</b>	Connection to supply voltage L+			
<b>System power supply\Power segment overview</b>				
<b>Module</b>	<b>Slot</b>	<b>Supply/consumption</b>		
PLC_1	1	12.00W		
F-DI 16x24V DC_1	2	-0.90W		
F-DQ 8x24V DC/2A PPM_1	3	-0.80W		
DI 16x24VDC BA_1	4	-1.05W		
	Summary	9.25W		
<b>Advanced configuration\DNS configuration</b>				
<b>No DNS server address is configured.</b>				
<b>Advanced configuration\IP Forwarding\Configuration IPv4 Forwarding</b>				
<b>Enable IPv4 forwarding for interfaces of this PLC</b>	False			
<b>Advanced configuration\Configuration control\Configuration control for central configuration</b>				
<b>Allow reconfiguration of device via the user program</b>	False			
<b>Connection resources\</b>				
	<b>Station resources - Reserved - Maximum</b>	<b>Station resources - Reserved - Configured</b>	<b>Station resources - Dynamic - Configured</b>	<b>Module resources - PLC_1 [CPU 1515TF-2 PN] - Configured</b>
Maximum number of resources:		10	98	108
	Maximum	Configured	Configured	Configured
PG communication:	4	-	-	-
HMI communication:	4	0	0	0
S7 communication:	0	-	0	0
Open user communication:	0	-	0	0
Web communication:	2	-	-	-
OPC UA client/server communication:	0	-	-	-
Other communication:	-	-	0	0
Total resources used:		0	0	0
Available resources:		10	98	108
<b>Overview of addresses\Overview of addresses\Overview of addresses</b>				
<b>Inputs</b>	True		<b>Outputs</b>	True
<b>Address gaps</b>	False		<b>Slot</b>	True

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<b>Type</b>	I	<b>Addr. from</b>	0	<b>Addr. to</b>	8	<b>Module</b>	F-DI 16x24V DC_1
<b>PIP</b>	-	<b>OB</b>	-	<b>Device name</b>	PLC_1 [CPU 1515TF-2 PN]	<b>Device number</b>	-
<b>Size</b>	9 Bytes	<b>Master / IO-system</b>	-	<b>Rack</b>	0	<b>Slot</b>	2
<b>Type</b>	O	<b>Addr. from</b>	0	<b>Addr. to</b>	4	<b>Module</b>	F-DI 16x24V DC_1
<b>PIP</b>	-	<b>OB</b>	-	<b>Device name</b>	PLC_1 [CPU 1515TF-2 PN]	<b>Device number</b>	-
<b>Size</b>	5 Bytes	<b>Master / IO-system</b>	-	<b>Rack</b>	0	<b>Slot</b>	2
<b>Type</b>	I	<b>Addr. from</b>	9	<b>Addr. to</b>	14	<b>Module</b>	F-DQ 8x24V DC/2A PPM_1
<b>PIP</b>	-	<b>OB</b>	-	<b>Device name</b>	PLC_1 [CPU 1515TF-2 PN]	<b>Device number</b>	-
<b>Size</b>	6 Bytes	<b>Master / IO-system</b>	-	<b>Rack</b>	0	<b>Slot</b>	3
<b>Type</b>	O	<b>Addr. from</b>	9	<b>Addr. to</b>	14	<b>Module</b>	F-DQ 8x24V DC/2A PPM_1
<b>PIP</b>	-	<b>OB</b>	-	<b>Device name</b>	PLC_1 [CPU 1515TF-2 PN]	<b>Device number</b>	-
<b>Size</b>	6 Bytes	<b>Master / IO-system</b>	-	<b>Rack</b>	0	<b>Slot</b>	3
<b>Type</b>	I	<b>Addr. from</b>	15	<b>Addr. to</b>	16	<b>Module</b>	DI 16x24VDC BA_1
<b>PIP</b>	Automatic update	<b>OB</b>	-	<b>Device name</b>	PLC_1 [CPU 1515TF-2 PN]	<b>Device number</b>	-
<b>Size</b>	2 Bytes	<b>Master / IO-system</b>	-	<b>Rack</b>	0	<b>Slot</b>	4
<b>Runtime licenses\OPC UA\Runtime licenses</b>							
<b>Type of required license</b>	None			<b>Type of purchased license</b>	No license		
<b>Runtime licenses\ProDiag\Supervisions</b>							
<b>Number of used supervisions</b>	0						
<b>Runtime licenses\ProDiag\Runtime licenses</b>							
<b>Number of required licenses</b>	None (<= 25 supervisions)			<b>Used ProDiag licenses</b>	No license		
<b>Runtime licenses\Energy Suite\Energy objects</b>							
<b>Number of configured energy objects</b>	0						
<b>Runtime licenses\Energy Suite\Runtime licenses</b>							
<b>Total number of licensed energy objects</b>	0						
<b>Runtime licenses\Energy Suite\Runtime licenses\Number of purchased licenses</b>							
<b>License type '5 energy objects'</b>	No license			<b>License type '10 energy objects'</b>	No license		

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Safety Administration

## Safety summary

## General information

## F-signatures

Collective F-signature	418EFOF7
Software F-signature	AE801FD3
Hardware F-signature	930ED124
F-communication address signature	----

## Current compilation

Safety program state	The offline safety program is consistent.
Compilation time	2/16/2023 1:18:04 PM (UTC +2:00)

## Used versions

STEP 7	STEP 7 Professional V16
Safety	STEP 7 Safety V16

## Access protection

Safety program	The safety program is protected by password
F-CPU	Full access with fail-safe (no protection)

## Notes

Location	Note	Additional info
General information	The response time of your safety function also depends on the cycle time of the F-OB and the runtime of the F-runtime group. When using distributed F-I/O modules, the response time also depends on the PROFINET/PROFIBUS parameter assignment. The configuration and parameter assignment of the standard system also has an effect on the response time of your safety function. Note that the configuration and parameter assignment of the standard system is not subject to the access protection of the safety program and does not change the F collective signature.	Note the warning "S085" in the manual and in the STEP 7 Safety online help.

## Safety program settings

Safety mode can be disabled	No
Assignment of F-system block numbers	F-system managed
Safety system version	V2.3
Variable F-communication IDs enabled	No

## System library elements used in safety program

## Instructions (STEP 7 Safety)

Name	Used version
ESTOP1	V1.6

Safety information: 418EFOF7 Consistent; STEP 7 Safety V16;

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### Information on F-runtime group

#### RTG1

#### Fail-safe organization block

Name	FOB_RTG1 [OB123]
Event class	Cyclic interrupt
Cycle time	100000 µs
Phase shift	0 µs
Priority	12

#### Main safety block

Name	Main_Safety_RTG1 [FB1]
I-DB for main safety block	Main_Safety_RTG1_DB [DB1]

#### F-runtime group parameters

Name	F-runtime group 1
Warn cycle time of the F-runtime group	110000 µs
Maximum cycle time of the F-runtime group	120000 µs
DB for F-runtime group communication	--
F-runtime group information DB	RTG1SysInfo

#### Pre/Post processing

FC for pre processing	--
FC for post processing	--

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**F-blocks in safety program**

Block name [Block number]	Function in safety program	Used and compiled in F-RTG	Signature
FOB_RTG1 [OB123]	F-OB [system-protected]	RTG1	E067BB56
Main_Safety_RTG1 [FB1]	F-FB	RTG1	6D0A8776
Main_Safety_RTG1_DB [DB1]	F-IDB	RTG1	CC40F5D3

**Know-how protected F-blocks in the safety program**

The safety program does not include know-how protected F-blocks.

**F-compliant PLC data types in the safety program**

The safety program contains no F-compliant PLC data types (UDT).

Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;

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**Data from the standard user program**

Absolute address	Symbolic operand	F-runtime group	Block name [Block number]	Network
I15.0	"ACK"	RTG1	Main_Safety_RTG1 [FB1]	1

**Parameters for safety-related CPU-CPU communications via RCVDP, SENDDP**

No safety-related CPU-CPU communication via RCVDP, SENDDP is configured.



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**Communications via Flexible F-Link**

No communications via Flexible F-Link are defined for the F-Program.

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### Hardware configuration of F-I/O

#### F-CPU information

Short designation	CPU 1515TF-2 PN
Article number	6ES7 515-2UM01-0AB0
Firmware version	V2.8
Central F-source address	1
F-destination address range (PROFIsafe address type 1)	--
F-destination address range (PROFIsafe address type 2)	65533 .. 65534

#### Central periphery

Rail - Slot	Module	Start address	F-destination address	F-monitoring time	Parameter signature (w/o addresses)
Rail_0-2	6ES7 526-1BH00-0AB0 F-DI 16x24V DC_1	0	65534	150 ms	0xC147 (49479)
Rail_0-3	6ES7 526-2BF00-0AB0 F-DQ 8x24V DC/2A PPM_1	9	65533	150 ms	0x10B5 (4277)

Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;

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<b>F-DI 16x24V DC_1 : Central I/O Rail_0, Slot 2</b>			
<b>General parameters</b>		<b>Specific Parameters</b>	
<b>Hardware</b>		<b>Sensor supply 0</b>	
Name	F-DI 16x24V DC_1	Supplied channels	Channels [0...3]
Slot	2	Short-circuit test activated	Yes
Short designation	F-DI 16x24V DC	Time for short-circuit test	4.2 ms
Article number	6ES7 526-1BH00-0AB0	Startup time of sensor after short-circuit test	4.2 ms
Start address input	0	<b>Sensor supply 1</b>	
Start address output	0	Supplied channels	Channels [4...7]
Hardware identifier	258	Short-circuit test activated	Yes
F-monitoring time	150 ms	Time for short-circuit test	4.2 ms
F-source address	1	Startup time of sensor after short-circuit test	4.2 ms
F-destination address	65534	<b>Sensor supply 2</b>	
F-parameter signature (without addresses)	0xC147 (49479)	Supplied channels	Channels [8...11]
F-parameter signature (with addresses)	0xDA84 (55940)	Short-circuit test activated	Yes
Behavior after channel fault	Passivate channel	Time for short-circuit test	4.2 ms
RIOforFA-Safety	Yes	Startup time of sensor after short-circuit test	4.2 ms
PROFIsafe mode	V2 mode	<b>Sensor supply 3</b>	
PROFIsafe protocol version	Expanded protocol (XP)	Supplied channels	Channels [12...15]
Firmware version	V1.0	Short-circuit test activated	Yes
<b>Software</b>		Time for short-circuit test	4.2 ms
F-I/O DB number	30002	Startup time of sensor after short-circuit test	4.2 ms
F I/O DB name	F00000_F-DI16x24VDC_1	<b>Channel 0, 8</b>	
Used in F-runtime group	RTG1	Sensor evaluation	1oo2 evaluation, equivalent
		Discrepancy behavior	Supply value 0
		Discrepancy time	5 ms
		Reintegration after discrepancy error	Test 0-Signal not necessary
		<b>Channel 0</b>	
		Channel activated	Yes
		Input delay	3.2 ms
		Channel failure acknowledgement	Manual
		Pulse extension	--- sec
		Chatter monitoring	No
		Number of signal changes	5
		Monitoring window	2 sec
		<b>Channel 8</b>	
		Channel activated	Yes
		Input delay	3.2 ms
		Channel failure acknowledgement	Manual
		Pulse extension	--- sec
		Chatter monitoring	No
Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;			

Totally Integrated Automation Portal		
<b>General parameters</b>	<b>Specific Parameters</b>	
	Number of signal changes	5
	Monitoring window	2 sec
	<b>Channel 1, 9</b>	
	Sensor evaluation	1oo2 evaluation, equivalent
	Discrepancy behavior	Supply value 0
	Discrepancy time	5 ms
	Reintegration after discrepancy error	Test 0-Signal not necessary
	<b>Channel 1</b>	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	<b>Channel 9</b>	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	<b>Channel 2, 10</b>	
	Sensor evaluation	1oo2 evaluation, equivalent
	Discrepancy behavior	Supply value 0
	Discrepancy time	5 ms
	Reintegration after discrepancy error	Test 0-Signal not necessary
	<b>Channel 2</b>	
	Channel activated	Yes
	Input delay	3.2 ms
Channel failure acknowledge	Manual	
Pulse extension	--- sec	
Chatter monitoring	No	
Number of signal changes	5	
Monitoring window	2 sec	
<b>Channel 10</b>		
Channel activated	Yes	
Input delay	3.2 ms	
Channel failure acknowledge	Manual	
Pulse extension	--- sec	
Chatter monitoring	No	
Number of signal changes	5	
Monitoring window	2 sec	
<b>Channel 3, 11</b>		
Sensor evaluation	1oo2 evaluation, equivalent	
Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;		

Totally Integrated Automation Portal		
<b>General parameters</b>	<b>Specific Parameters</b>	
	<b>Discrepancy behavior</b>	Supply value 0
	<b>Discrepancy time</b>	5 ms
	<b>Reintegration after discrepancy error</b>	Test 0-Signal not necessary
	<b>Channel 3</b>	
	<b>Channel activated</b>	Yes
	<b>Input delay</b>	3.2 ms
	<b>Channel failure acknowledge</b>	Manual
	<b>Pulse extension</b>	--- sec
	<b>Chatter monitoring</b>	No
	<b>Number of signal changes</b>	5
	<b>Monitoring window</b>	2 sec
	<b>Channel 11</b>	
	<b>Channel activated</b>	Yes
	<b>Input delay</b>	3.2 ms
	<b>Channel failure acknowledge</b>	Manual
	<b>Pulse extension</b>	--- sec
	<b>Chatter monitoring</b>	No
	<b>Number of signal changes</b>	5
	<b>Monitoring window</b>	2 sec
	<b>Channel 4, 12</b>	
	<b>Sensor evaluation</b>	1oo2 evaluation, equivalent
	<b>Discrepancy behavior</b>	Supply value 0
	<b>Discrepancy time</b>	5 ms
	<b>Reintegration after discrepancy error</b>	Test 0-Signal not necessary
	<b>Channel 4</b>	
	<b>Channel activated</b>	Yes
	<b>Input delay</b>	3.2 ms
	<b>Channel failure acknowledge</b>	Manual
	<b>Pulse extension</b>	--- sec
	<b>Chatter monitoring</b>	No
	<b>Number of signal changes</b>	5
	<b>Monitoring window</b>	2 sec
	<b>Channel 12</b>	
	<b>Channel activated</b>	Yes
	<b>Input delay</b>	3.2 ms
	<b>Channel failure acknowledge</b>	Manual
	<b>Pulse extension</b>	--- sec
	<b>Chatter monitoring</b>	No
	<b>Number of signal changes</b>	5
	<b>Monitoring window</b>	2 sec
	<b>Channel 5, 13</b>	
	<b>Sensor evaluation</b>	1oo2 evaluation, equivalent
	<b>Discrepancy behavior</b>	Supply value 0
	<b>Discrepancy time</b>	5 ms
	<b>Reintegration after discrepancy error</b>	Test 0-Signal not necessary
Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;		

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<b>General parameters</b>	<b>Specific Parameters</b>	
	<b>Channel 5</b>	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	<b>Channel 13</b>	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	<b>Channel 6, 14</b>	
	Sensor evaluation	1oo2 evaluation, equivalent
	Discrepancy behavior	Supply value 0
	Discrepancy time	5 ms
	Reintegration after discrepancy error	Test 0-Signal not necessary
	<b>Channel 6</b>	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	<b>Channel 14</b>	
	Channel activated	Yes
Input delay	3.2 ms	
Channel failure acknowledge	Manual	
Pulse extension	--- sec	
Chatter monitoring	No	
Number of signal changes	5	
Monitoring window	2 sec	
<b>Channel 7, 15</b>		
Sensor evaluation	1oo2 evaluation, equivalent	
Discrepancy behavior	Supply value 0	
Discrepancy time	5 ms	
Reintegration after discrepancy error	Test 0-Signal not necessary	
<b>Channel 7</b>		
Channel activated	Yes	
Input delay	3.2 ms	
Channel failure acknowledge	Manual	
Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;		

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<b>General parameters</b>		
	<b>Specific Parameters</b>	
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
	<b>Channel 15</b>	
	Channel activated	Yes
	Input delay	3.2 ms
	Channel failure acknowledge	Manual
	Pulse extension	--- sec
	Chatter monitoring	No
	Number of signal changes	5
	Monitoring window	2 sec
Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;		

Totally Integrated Automation Portal		
<b>F-DQ 8x24V DC/2A PPM_1 : Central I/O Rail_0, Slot 3</b>		
<b>General parameters</b>		<b>Specific Parameters</b>
<b>Hardware</b>		
Name	F-DQ 8x24V DC/2A PPM_1	Maximum test period
Slot	3	1000 sec
Short designation	F-DQ 8x24V DC/2A PPM	Operating mode of the output
Article number	6ES7 526-2BF00-0AB0	PM-switching mode
Start address input	9	<b>Channel 0</b>
Start address output	9	Channel activated
Hardware identifier	259	Yes
F-monitoring time	150 ms	Channel failure acknowledgement
F-source address	1	Manual
F-destination address	65533	Max. readback time dark test
F-parameter signature (without addresses)	0x10B5 (4277)	1.0 ms
F-parameter signature (with addresses)	0x4A58 (19032)	Disable dark test for 48 hours
Behavior after channel fault	Passivate channel	No
RIOforFA-Safety	Yes	Max. readback time switch on test
PROFIsafe mode	V2 mode	0.8 ms
PROFIsafe protocol version	Expanded protocol (XP)	Activated light test
Firmware version	V1.0	No
<b>Software</b>		Wire break
F-I/O DB number	30003	No
F I/O DB name	F00009_F-DQ8x24VDC/2APPM_1	<b>Channel 1</b>
Used in F-runtime group	RTG1	Channel activated
		Yes
		Channel failure acknowledgement
		Manual
		Max. readback time dark test
		1.0 ms
		Disable dark test for 48 hours
		No
		Max. readback time switch on test
		0.8 ms
		Activated light test
		No
		Wire break
		No
		<b>Channel 2</b>
		Channel activated
		Yes
		Channel failure acknowledgement
		Manual
		Max. readback time dark test
		1.0 ms
		Disable dark test for 48 hours
		No
		Max. readback time switch on test
		0.8 ms
		Activated light test
		No
		Wire break
		No
		<b>Channel 3</b>
		Channel activated
		Yes
		Channel failure acknowledgement
		Manual
		Max. readback time dark test
		1.0 ms
		Disable dark test for 48 hours
		No
		Max. readback time switch on test
		0.8 ms
		Activated light test
		No
		Wire break
		No
		<b>Channel 4</b>
		Channel activated
		Yes
		Channel failure acknowledgement
		Manual
		Max. readback time dark test
		1.0 ms
Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;		



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General parameters	Specific Parameters	
	Disable dark test for 48 hours	No
	Max. readback time switch on test	0.8 ms
	Activated light test	No
	Wire break	No
	<b>Channel 5</b>	
	Channel activated	Yes
	Channel failure acknowledge	Manual
	Max. readback time dark test	1.0 ms
	Disable dark test for 48 hours	No
	Max. readback time switch on test	0.8 ms
	Activated light test	No
	Wire break	No
	<b>Channel 6</b>	
	Channel activated	Yes
	Channel failure acknowledge	Manual
	Max. readback time dark test	1.0 ms
	Disable dark test for 48 hours	No
	Max. readback time switch on test	0.8 ms
	Activated light test	No
	Wire break	No
	<b>Channel 7</b>	
	Channel activated	Yes
	Channel failure acknowledge	Manual
	Max. readback time dark test	1.0 ms
	Disable dark test for 48 hours	No
	Max. readback time switch on test	0.8 ms
	Activated light test	No
	Wire break	No

**Supplementary information**

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Totally Integrated Automation Portal

## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Safety Administration / Fail-safe user blocks

### Main\_Safety\_RTG1

#### Main\_Safety\_RTG1 Properties

##### General

<b>Name</b>	Main_Safety_RTG1	<b>Number</b>	1	<b>Type</b>	FB
<b>Language</b>	LAD	<b>Numbering</b>	Manual		

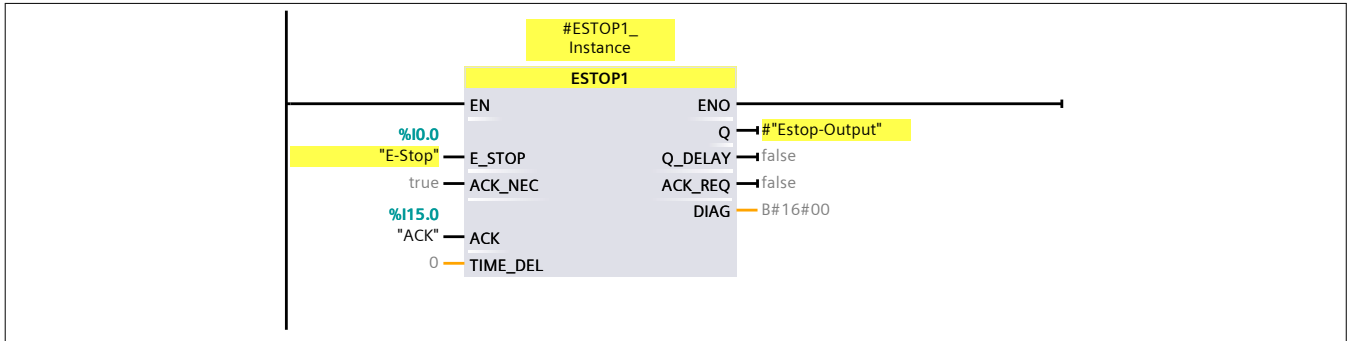
##### Information

<b>Title</b>		<b>Author</b>		<b>Comment</b>	
<b>Family</b>		<b>Version</b>	0.1	<b>User-defined ID</b>	

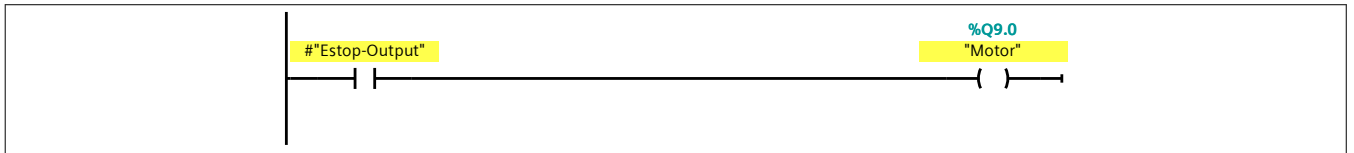
Name	Data type	Default value	Retain	Access-ible from HMI/OP C UA/Web API	Wri-ta-ble from HM I/O PC UA/ Web API	Visible in HMI point	Set-point	Super- vision	Comment
Input									
Output									
InOut									
▼ Static									
▼ ESTOP1_Instance	ESTOP1			True	True	True	True		
▼ Input									
E_STOP	Bool	false	Non-retain	True	True	True	False		Emergency STOP
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment
TIME_DEL	Time	0	Non-retain	True	True	True	False		Time delay
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable
Q_DELAY	Bool	false	Non-retain	True	True	True	False		Enable is OFF delayed
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgment request
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									
Estop-Output	Bool	false	Non-retain	True	True	True	True		
Temp									
Constant									

Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;

Network 1:



Network 2:



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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Safety Administration / Fail-safe user blocks

### Main\_Safety\_RTG1\_DB

#### Main\_Safety\_RTG1\_DB Properties

##### General

<b>Name</b>	Main_Safety_RTG1_DB	<b>Number</b>	1	<b>Type</b>	DB
<b>Language</b>	DB	<b>Numbering</b>	Automatic		

##### Information

<b>Title</b>		<b>Author</b>		<b>Comment</b>	
<b>Family</b>		<b>Version</b>	0.1	<b>User-defined ID</b>	FUSI

Name	Data type	Start value	Retain	Access-ible from HMI/O PC UA/Web API	Wri-table from engineering	Visible in HMI	Set-point	Super-vision	Comment
Input									
Output									
InOut									
▼ Static									
▼ ESTOP1_Instance	ESTOP1		False	True	True	True	True		
▼ Input									
E_STOP	Bool	false	False	True	True	True	False		Emergency STOP
ACK_NEC	Bool	true	False	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	False	True	True	True	False		1=Acknowledgment
TIME_DEL	Time	0	False	True	True	True	False		Time delay
▼ Output									
Q	Bool	false	False	True	True	True	False		1=Enable
Q_DELAY	Bool	false	False	True	True	True	False		Enable is OFF delayed
ACK_REQ	Bool	false	False	True	True	True	False		1=acknowledgment request
DIAG	Byte	B#16#00	False	True	True	True	False		Service information
InOut									
Static									
Estop-Output	Bool	false	False	True	True	True	True		

Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN]

### Software units

This folder is empty.

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks

### Main [OB1]

#### Main Properties

##### General

<b>Name</b>	Main	<b>Number</b>	1	<b>Type</b>	OB
<b>Language</b>	LAD	<b>Numbering</b>	Automatic		

##### Information

<b>Title</b>	"Main Program Sweep (Cycle)"	<b>Author</b>		<b>Comment</b>	
<b>Family</b>		<b>Version</b>	0.1	<b>User-defined ID</b>	

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
Temp			
Constant			

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks

## FOB\_RTG1 [OB123]

## FOB\_RTG1 Properties

## General

<b>Name</b>	FOB_RTG1	<b>Number</b>	123	<b>Type</b>	OB
<b>Language</b>	SCL	<b>Numbering</b>	Automatic		

## Information

<b>Title</b>		<b>Author</b>		<b>Comment</b>	
<b>Family</b>		<b>Version</b>	0.1	<b>User-defined ID</b>	

Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Event_Count	Int		Events discarded

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks

### Main\_Safety\_RTG1 [FB1]

#### Main\_Safety\_RTG1 Properties

##### General

<b>Name</b>	Main_Safety_RTG1	<b>Number</b>	1	<b>Type</b>	FB
<b>Language</b>	LAD	<b>Numbering</b>	Manual		

##### Information

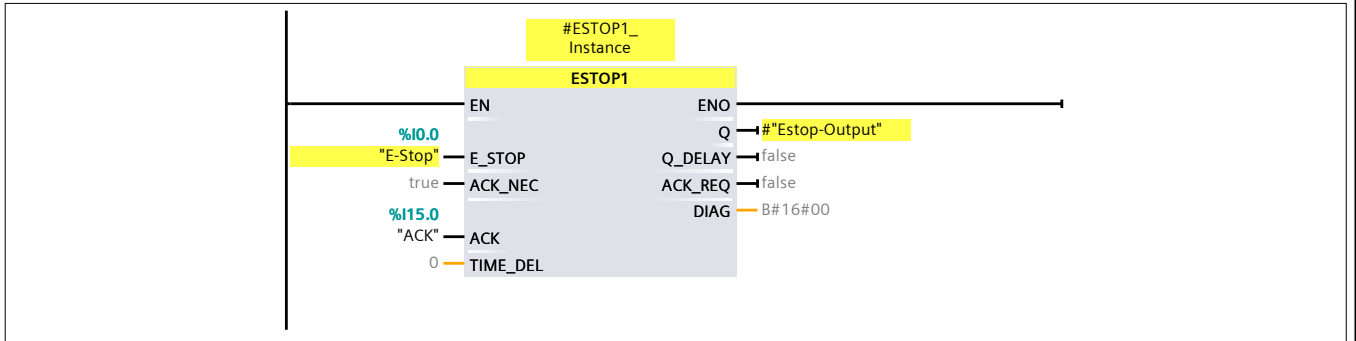
<b>Title</b>		<b>Author</b>		<b>Comment</b>	
<b>Family</b>		<b>Version</b>	0.1	<b>User-defined ID</b>	

Name	Data type	Default value	Retain	Access-ible from HMI/OP C UA/We b API	Wri-ta-ble from HM I/O PC UA/We b API	Visible in HMI engi-neer-ing	Set-point	Super-vision	Comment
Input									
Output									
InOut									
▼ Static									
▼ ESTOP1_Instance	ESTOP1			True	True	True	True		
▼ Input									
E_STOP	Bool	false	Non-retain	True	True	True	False		Emergency STOP
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment
TIME_DEL	Time	0	Non-retain	True	True	True	False		Time delay
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable
Q_DELAY	Bool	false	Non-retain	True	True	True	False		Enable is OFF delayed
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgment request
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									
Estop-Output	Bool	false	Non-retain	True	True	True	True		
Temp									
Constant									

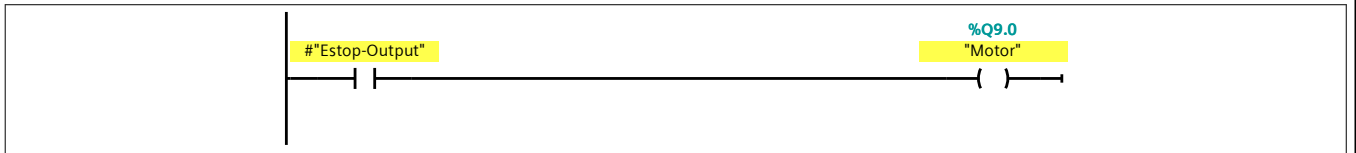
Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;



Network 1:



Network 2:



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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks

## Main\_Safety\_RTG1\_DB [DB1]

## Main\_Safety\_RTG1\_DB Properties

## General

Name	Main_Safety_RTG1_DB	Number	1	Type	DB
Language	DB	Numbering	Automatic		

## Information

Title		Author		Comment	
Family		Version	0.1	User-defined ID	FUS1

Name	Data type	Start value	Retain	Access-ible from HMI/O PC UA/Web API	Wri-ta-ble from engineering	Visible in HMI	Set-point	Super- vision	Comment
Input									
Output									
InOut									
▼ Static									
▼ ESTOP1_Instance	ESTOP1		False	True	True	True	True		
▼ Input									
E_STOP	Bool	false	False	True	True	True	False		Emergency STOP
ACK_NEC	Bool	true	False	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	False	True	True	True	False		1=Acknowledgment
TIME_DEL	Time	0	False	True	True	True	False		Time delay
▼ Output									
Q	Bool	false	False	True	True	True	False		1=Enable
Q_DELAY	Bool	false	False	True	True	True	False		Enable is OFF delayed
ACK_REQ	Bool	false	False	True	True	True	False		1=acknowledgment request
DIAG	Byte	B#16#00	False	True	True	True	False		Service information
InOut									
Static									
Estop-Output	Bool	false	False	True	True	True	True		

Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;

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Automation PortalSafety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks /  
System blocks / STEP 7 Safety

## RTG1SysInfo [DB30000]

## RTG1SysInfo Properties

## General

<b>Name</b>	RTG1SysInfo	<b>Number</b>	30000	<b>Type</b>	DB
<b>Language</b>	DB	<b>Numbering</b>	Automatic		

## Information

<b>Title</b>		<b>Author</b>	SafeSys	<b>Comment</b>	
<b>Family</b>	F_CTRL	<b>Version</b>	2.2	<b>User-defined ID</b>	F_CTRL_1

Name	Data type	Start value	Retain	Access- ible from HMI/O PC UA/We b API	Wri- ta- ble from en- gineer- ing HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
Input									
▼ Output									
MODE	Bool	false	False	True	True	True	False		1 = deactivated safety mode
▼ F_SYSINFO	F_SYSIN- FO		False	True	True	True	False		F-Runtime group infor- mation
MODE	Bool	false	False	True	True	True	False		1 = deactivated safety mode
TCYC_CURR	DInt	0	False	True	True	True	False		current cycle time of the F-Runtime group in ms
TCYC_LONG	DInt	0	False	True	True	True	False		longest cycle time of the F-Runtime group in ms
TRTG_CURR	DInt	0	False	True	True	True	False		current runtime of the F- Runtime group in ms
TRTG_LONG	DInt	0	False	True	True	True	False		longest runtime of the F- Runtime group in ms
T1RTG_CURR	DInt	0	False	True	True	True	False		current runtime in ms for further use
T1RTG_LONG	DInt	0	False	True	True	True	False		longest runtime in ms for further use
F_PROG_SIG	DWord	DW#16#418EF0F7	False	True	True	True	False		Collective F-signature of the safety program
▼ F_PROG_DAT	DTL	DTL#2023-2-16-11 :18:4.125913100	False	True	True	True	False		Compilation date of the safety program
YEAR	UInt	2023	False	True	True	True	False		
MONTH	USInt	2	False	True	True	True	False		
DAY	USInt	16	False	True	True	True	False		
WEEKDAY	USInt	5	False	True	True	True	False		

Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;

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Name	Data type	Start value	Retain	Access-ible from HMI/O PC UA/Web API	Wri-ta-ble from engineering HM I/O PC UA/ Web API	Visible in HMI	Set-point	Super-vision	Comment
HOUR	USInt	11	False	True	True	True	False		
MINUTE	USInt	18	False	True	True	True	False		
SECOND	USInt	4	False	True	True	True	False		
NANOSEC-OND	UDInt	125913100	False	True	True	True	False		
F_RTG_SIG	DWord	DW#16#C5932386	False	True	True	True	False		Collective F-signature of the F-Runtime group
▼ F_RTG_DAT	DTL	DTL#2023-2-16-11:18:4.125913100	False	True	True	True	False		Compilation date of the F-Runtime group
YEAR	UInt	2023	False	True	True	True	False		
MONTH	USInt	2	False	True	True	True	False		
DAY	USInt	16	False	True	True	True	False		
WEEKDAY	USInt	5	False	True	True	True	False		
HOUR	USInt	11	False	True	True	True	False		
MINUTE	USInt	18	False	True	True	True	False		
SECOND	USInt	4	False	True	True	True	False		
NANOSEC-OND	UDInt	125913100	False	True	True	True	False		
VERS_S7SAF	DWord	DW#16#16000000	False	True	True	True	False		Version label of STEP 7 Safety
InOut									
Static									

Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety

### F\_SystemInfo\_DB [DB30001]

#### F\_SystemInfo\_DB Properties

##### General

<b>Name</b>	F_SystemInfo_DB	<b>Number</b>	30001	<b>Type</b>	DB
<b>Language</b>	DB	<b>Numbering</b>	Automatic		

##### Information

<b>Title</b>		<b>Author</b>		<b>Comment</b>	
<b>Family</b>		<b>Version</b>	0.1	<b>User-defined ID</b>	F_GLOBDB

Name	Data type	Start value	Retain	Access-ible from HMI/O PC UA/Web API	Wri-table from engineering	Visible in HMI	Set-point	Super- vision	Comment
▼ Static									
FCCValue	DWord	16#0	False	True	True	True	False		

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety

### F\_ESTOP1 [FB215]

#### F\_ESTOP1 Properties

##### General

<b>Name</b>	F_ESTOP1	<b>Number</b>	215	<b>Type</b>	FB
<b>Language</b>	FBD	<b>Numbering</b>	Automatic		

##### Information

<b>Title</b>	F_: Emergency STOP up to stop category 1	<b>Author</b>	Safety	<b>Comment</b>	
<b>Family</b>	F_FUNC	<b>Version</b>	1.1	<b>User-defined ID</b>	F_ESTOP1

Name	Data type	Default value	Retain	Accessible from HMI/OPC UA/Web API	Writable from HMI/OPC UA/Web API	Visible in HMI	Set-point	Supervision	Comment
▼ Input									
E_STOP	Bool	false	Non-retain	True	True	True	False		Emergency STOP
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment necessary
ACK	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment
TIME_DEL	Time	0	Non-retain	True	True	True	False		Time delay
▼ Output									
Q	Bool	false	Non-retain	True	True	True	False		1=Enable
Q_DELAY	Bool	false	Non-retain	True	True	True	False		Enable is OFF delayed
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=acknowledgment request
DIAG	Byte	B#16#00	Non-retain	True	True	True	False		Service information
InOut									
Static									

Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

### F\_CTRL\_1 [FB32767]

#### F\_CTRL\_1 Properties

##### General

<b>Name</b>	F_CTRL_1	<b>Number</b>	32767	<b>Type</b>	FB
<b>Language</b>	SCL	<b>Numbering</b>	Automatic		

##### Information

<b>Title</b>	F_: Cycle Control and Mode	<b>Author</b>	SafeSys	<b>Comment</b>	
<b>Family</b>	F_CTRL	<b>Version</b>	2.2	<b>User-defined ID</b>	F_CTRL_1

Name	Data type	Default value	Retain	Access- ible from HMI/OP C UA/We b API	Wri- ta- ble from HM I/O PC UA/ We b API	Visible in HMI eng- ineer- ing	Set- in point	Super- vision	Comment
Input									
▼ Output									
MODE	Bool	false	Non-retain	True	True	True	False		1 = deactivated safety mode
▼ F_SYSINFO	F_SYSINFO		Non-retain	True	True	True	False		F-Runtime group information
MODE	Bool	false	Non-retain	True	True	True	False		1 = deactivated safety mode
TCYC_CURR	DInt	0	Non-retain	True	True	True	False		current cycle time of the F-Runtime group in ms
TCYC_LONG	DInt	0	Non-retain	True	True	True	False		longest cycle time of the F-Runtime group in ms
TRTG_CURR	DInt	0	Non-retain	True	True	True	False		current runtime of the F-Runtime group in ms
TRTG_LONG	DInt	0	Non-retain	True	True	True	False		longest runtime of the F-Runtime group in ms
T1RTG_CURR	DInt	0	Non-retain	True	True	True	False		current runtime in ms for further use
T1RTG_LONG	DInt	0	Non-retain	True	True	True	False		longest runtime in ms for further use
F_PROG_SIG	DWord	16#0	Non-retain	True	True	True	False		Collective F-signature of the safety program
▼ F_PROG_DAT	DTL	DTL#1970-01-01-00:00:00	Non-retain	True	True	True	False		Compilation date of the safety program
YEAR	UInt	1970	Non-retain	True	True	True	False		





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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

### F\_PS\_IN\_2\_0\_0\_0\_0\_0\_0\_2\_1\_0\_1\_23 [FB32768]

#### F\_PS\_IN\_2\_0\_0\_0\_0\_0\_0\_2\_1\_0\_1\_23 Properties

##### General

<b>Name</b>	F_PS_IN_2_0_0_0_0_0_0_2_1_0_1_23	<b>Number</b>	32768	<b>Type</b>	FB
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<b>Language</b>	SCL	<b>Numbering</b>	Automatic
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##### Information

<b>Title</b>		<b>Author</b>		<b>Comment</b>	
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<b>Family</b>		<b>Version</b>	0.1	<b>User-defined ID</b>	
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Name	Data type	Default value	Retain	Access- ible from HMI/OP C UA/We b API	Wri- ta- ble from HM I/O PC UA/ We b API	Visible in HMI point	Set- point	Super- vision	Comment
▼ Input									
PASS_ON	Bool	false	Non-retain	True	True	True	False		1=Enable passivation
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment for reintegration required
ACK_REI	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment for reintegration
IPAR_EN	Bool	false	Non-retain	True	True	True	False		Tag for parameter reassignment of fail-safe DP standard slaves/I/O standard devices or for enabling HART communication
DISABLE	Bool	false	Non-retain	True	True	True	False		1=Disables F-I/O
▼ Output									
PASS_OUT	Bool	true	Non-retain	True	True	True	False		Passivation output
QBAD	Bool	true	Non-retain	True	True	True	False		1=Fail-safe values are output
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment requirement for reintegration



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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

### F\_PS\_OUT\_1\_0\_0\_0\_0\_1\_2\_1\_0\_1\_23 [FB32769]

#### F\_PS\_OUT\_1\_0\_0\_0\_0\_1\_2\_1\_0\_1\_23 Properties

##### General

<b>Name</b>	F_PS_OUT_1_0_0_0_0_1_2_1_0_1_23	<b>Number</b>	32769	<b>Type</b>	FB
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<b>Language</b>	SCL	<b>Numbering</b>	Automatic
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##### Information

<b>Title</b>		<b>Author</b>		<b>Comment</b>	
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<b>Family</b>		<b>Version</b>	0.1	<b>User-defined ID</b>	
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Name	Data type	Default value	Retain	Access-ible from HMI/OPC UA/Web API	Wri-ta-ble from HM I/O PC UA/Web API	Visible in HMI engineering	Set-point	Super- vision	Comment
▼ Input									
PASS_ON	Bool	false	Non-retain	True	True	True	False		1=Enable passivation
ACK_NEC	Bool	true	Non-retain	True	True	True	False		1=Acknowledgment for reintegration required
ACK_REI	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment for reintegration
IPAR_EN	Bool	false	Non-retain	True	True	True	False		Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication
DISABLE	Bool	false	Non-retain	True	True	True	False		1=Disables F-I/O
▼ Output									
PASS_OUT	Bool	true	Non-retain	True	True	True	False		Passivation output
QBAD	Bool	true	Non-retain	True	True	True	False		1=Fail-safe values are output
ACK_REQ	Bool	false	Non-retain	True	True	True	False		1=Acknowledgment requirement for reintegration

Totally Integrated Automation Portal									
Name	Data type	Default value	Retain	Access- ible from HMI/OP C UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
IPAR_OK	Bool	false	Non-retain	True	True	True	False		Tag for parameter reassignment of fail-safe DP standard slaves/I/O standard devices or for enabling HART communication
DIAG	Byte	16#0	Non-retain	True	True	True	False		Non-fail-safe service information
DISABLED	Bool	false	Non-retain	True	True	True	False		1=F-I/O disabled
InOut									
Static									



















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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

### FB32776\_IDB\_C [DB30005]

#### FB32776\_IDB\_C Properties

##### General

<b>Name</b>	FB32776_IDB_C	<b>Number</b>	30005	<b>Type</b>	DB
<b>Language</b>	DB	<b>Numbering</b>	Automatic		

##### Information

<b>Title</b>		<b>Author</b>	SafeSys	<b>Comment</b>	
<b>Family</b>	F_CTRL	<b>Version</b>	1.2	<b>User-defined ID</b>	F_CTRL_D

Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m en- g i- n g	Visible in HMI	Set- point	Super- vision	Comment
Input									
▼ Output									
InD	LInt	0	False	False	False	False	False		
InOut									
Static									

Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;



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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

### FB32777\_IDB\_C [DB30006]

#### FB32777\_IDB\_C Properties

##### General

<b>Name</b>	FB32777_IDB_C	<b>Number</b>	30006	<b>Type</b>	DB
<b>Language</b>	DB	<b>Numbering</b>	Automatic		

##### Information

<b>Title</b>		<b>Author</b>	SafeSys	<b>Comment</b>	
<b>Family</b>	F_CTRL	<b>Version</b>	1.2	<b>User-defined ID</b>	F_CTRL_2

Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m eng- neer- ing	Visible in HMI	Set- point	Super- vision	Comment
Input									
Output									
InOut									
Static									

Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;





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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

### FB32778\_IDB\_C [DB30007]

#### FB32778\_IDB\_C Properties

##### General

<b>Name</b>	FB32778_IDB_C	<b>Number</b>	30007	<b>Type</b>	DB
<b>Language</b>	DB	<b>Numbering</b>	Automatic		

##### Information

<b>Title</b>		<b>Author</b>	SafeSys	<b>Comment</b>	
<b>Family</b>	F_CTRL	<b>Version</b>	2.0	<b>User-defined ID</b>	F_ET_LI

Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m eng- neer- ing	Visible in HMI	Set- point	Super- vision	Comment
Input									
Output									
InOut									
Static									

Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;



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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

### FB32779\_IDB\_C [DB30008]

#### FB32779\_IDB\_C Properties

##### General

<b>Name</b>	FB32779_IDB_C	<b>Number</b>	30008	<b>Type</b>	DB
<b>Language</b>	DB	<b>Numbering</b>	Automatic		

##### Information

<b>Title</b>		<b>Author</b>	SafeSys	<b>Comment</b>	
<b>Family</b>	F_CTRL	<b>Version</b>	1.0	<b>User-defined ID</b>	F_CTRLRT

Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m eng- neer- ing	Visible in HMI	Set- point	Super- vision	Comment
Input									
Output									
InOut									
Static									

Safety information: 418EF0F7 Consistent; STEP 7 Safety V16;

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

### FOB\_GLOBAL\_1 [FC32767]

#### FOB\_GLOBAL\_1 Properties

##### General

<b>Name</b>	FOB_GLOBAL_1	<b>Number</b>	32767	<b>Type</b>	FC
<b>Language</b>	SCL	<b>Numbering</b>	Automatic		

##### Information

<b>Title</b>		<b>Author</b>		<b>Comment</b>	
<b>Family</b>		<b>Version</b>	0.1	<b>User-defined ID</b>	

Name	Data type	Default value	Comment
Input			
Output			
InOut			
▼ Return			
FOB_GLOBAL_1	Void		

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

### F\_JL\_CORR [FC32768]

#### F\_JL\_CORR Properties

##### General

<b>Name</b>	F_JL_CORR	<b>Number</b>	32768	<b>Type</b>	FC
<b>Language</b>	SCL	<b>Numbering</b>	Automatic		

##### Information

<b>Title</b>	F_: Jmp label / Loop - global correction implementation	<b>Author</b>	SafeSys	<b>Comment</b>	
<b>Family</b>	F_SYSINS	<b>Version</b>	1.0	<b>User-defined ID</b>	F_JLCORR

Name	Data type	Default value	Comment
▼ Input			
dnDB_NR_GCTX	DInt		
dnBIT_OFFSET_GCTX	DInt		
dnDB_LEN_GCTX	DInt		
InD_CORR	LInt		
Output			
InOut			
▼ Return			
Ret_Val	Void		









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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / Compiler blocks

### SPLIT\_FOB\_1\_1 [FC32769]

#### SPLIT\_FOB\_1\_1 Properties

##### General

<b>Name</b>	SPLIT_FOB_1_1	<b>Number</b>	32769	<b>Type</b>	FC
<b>Language</b>	SCL	<b>Numbering</b>	Automatic		

##### Information

<b>Title</b>		<b>Author</b>		<b>Comment</b>	
<b>Family</b>		<b>Version</b>	0.1	<b>User-defined ID</b>	

Name	Data type	Default value	Comment
Input			
Output			
InOut			
▼ Return			
SPLIT_FOB_1_1	Void		

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System blocks / STEP 7 Safety / F-I/O data blocks

## F00000\_F-DI16x24VDC\_1 [DB30002]

## F00000\_F-DI16x24VDC\_1 Properties

## General

Name	F00000_F-DI16x24VDC_1	Number	30002	Type	DB
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Language	DB	Numbering	Automatic
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## Information

Title		Author		Comment	
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Family		Version	0.1	User-defined ID	FDRI
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Name	Data type	Start value	Retain	Access-ible from HMI/O PC UA/Web API	Wri-ta-ble from engineering	Visible in HMI	Set-point	Super-vision	Comment
▼ Input									
PASS_ON	Bool	false	False	True	True	True	False		1=Enable passivation
ACK_NEC	Bool	true	False	True	True	True	False		1=Acknowledgment for reintegration required
ACK_REI	Bool	false	False	True	True	True	False		1=Acknowledgment for reintegration
IPAR_EN	Bool	false	False	True	True	True	False		Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication
DISABLE	Bool	false	False	True	True	True	False		1=Disables F-I/O
▼ Output									
PASS_OUT	Bool	true	False	True	True	True	False		Passivation output
QBAD	Bool	true	False	True	True	True	False		1=Fail-safe values are output
ACK_REQ	Bool	false	False	True	True	True	False		1=Acknowledgment requirement for reintegration
IPAR_OK	Bool	false	False	True	True	True	False		Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication
DIAG	Byte	16#0	False	True	True	True	False		Non-fail-safe service information
DISABLED	Bool	false	False	True	True	True	False		1=F-I/O disabled

Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
InOut									
Static									

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks / System blocks / STEP 7 Safety / F-I/O data blocks

### F00009\_F-DQ8x24VDC/2APPM\_1 [DB30003]

#### F00009\_F-DQ8x24VDC/2APPM\_1 Properties

##### General

<b>Name</b>	F00009_F-DQ8x24VDC/2APPM_1	<b>Number</b>	30003	<b>Type</b>	DB
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<b>Language</b>	DB	<b>Numbering</b>	Automatic
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##### Information

<b>Title</b>		<b>Author</b>		<b>Comment</b>	
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<b>Family</b>		<b>Version</b>	0.1	<b>User-defined ID</b>	FDRI
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Name	Data type	Start value	Retain	Access-ible from HMI/IO PC UA/Web API	Wri-ta-ble from engineering	Visible in HMI	Set-point	Super-vision	Comment
▼ Input									
PASS_ON	Bool	false	False	True	True	True	False		1=Enable passivation
ACK_NEC	Bool	true	False	True	True	True	False		1=Acknowledgment for reintegration required
ACK_REI	Bool	false	False	True	True	True	False		1=Acknowledgment for reintegration
IPAR_EN	Bool	false	False	True	True	True	False		Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication
DISABLE	Bool	false	False	True	True	True	False		1=Disables F-I/O
▼ Output									
PASS_OUT	Bool	true	False	True	True	True	False		Passivation output
QBAD	Bool	true	False	True	True	True	False		1=Fail-safe values are output
ACK_REQ	Bool	false	False	True	True	True	False		1=Acknowledgment requirement for reintegration
IPAR_OK	Bool	false	False	True	True	True	False		Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication
DIAG	Byte	16#0	False	True	True	True	False		Non-fail-safe service information
DISABLED	Bool	false	False	True	True	True	False		1=F-I/O disabled

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Name	Data type	Start value	Retain	Access- sible from HMI/O PC UA/We b API	Wri- ta- ble fro m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Super- vision	Comment
InOut									
Static									

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**Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Program blocks /  
System blocks / STEP 7 Safety**

**F-communication DBs**

This folder is empty.

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN]




### Technology objects

This folder is empty.

## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN]

### PLC tags

#### PLC tags




Icon	Name	Data type	Address	Visible in HMI engineering	Accessible from HMI/OPC UA/Web API	Comment
	ACK	Bool	%I15.0	True	True	
	E-Stop	Bool	%I0.0	True	True	
	Motor	Bool	%Q9.0	True	True	



### Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / PLC tags

#### Default tag table [56]

PLC tags

Icon	Name	Data type	Address	Visible in HMI engineering	Accessible from HMI/OPC UA/Web API	Comment
	ACK	Bool	%I15.0	True	True	
	E-Stop	Bool	%I0.0	True	True	
	Motor	Bool	%Q9.0	True	True	

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / PLC data types / System data types

### F\_SYSINFO

#### F\_SYSINFO Properties

##### General

<b>Name</b>	F_SYSINFO	<b>Number</b>	34	<b>Type</b>	UDT
<b>Language</b>		<b>Numbering</b>			

##### Information

<b>Title</b>	F_: F_SYSINFO	<b>Author</b>		<b>Comment</b>	
<b>Family</b>		<b>Version</b>		<b>User-defined ID</b>	

Name	Data type	Default value	Accessi-ble from HMI/OPC UA/Web API	Wri-ta-ble from HM I/O PC UA/ Web API	Visible in HMI engi-neer-ing	Set-point	Comment
MODE	Bool	false	True	True	True	False	1 = deactivated safety mode
TCYC_CURR	DInt	0	True	True	True	False	current cycle time of the F-Run-time group in ms
TCYC_LONG	DInt	0	True	True	True	False	longest cycle time of the F-Run-time group in ms
TRTG_CURR	DInt	0	True	True	True	False	current runtime of the F-Runtime group in ms
TRTG_LONG	DInt	0	True	True	True	False	longest runtime of the F-Runtime group in ms
T1RTG_CURR	DInt	0	True	True	True	False	current runtime in ms for further use
T1RTG_LONG	DInt	0	True	True	True	False	longest runtime in ms for further use
F_PROG_SIG	DWord	16#0	True	True	True	False	Collective F-signature of the safety program
▼ F_PROG_DAT	DTL	DTL#1970-01-01-00:00:00	True	True	True	False	Compilation date of the safety program
YEAR	UInt	1970	True	True	True	False	
MONTH	USInt	1	True	True	True	False	
DAY	USInt	1	True	True	True	False	
WEEKDAY	USInt	5	True	True	True	False	
HOUR	USInt	0	True	True	True	False	
MINUTE	USInt	0	True	True	True	False	
SECOND	USInt	0	True	True	True	False	
NANOSECOND	UDInt	0	True	True	True	False	

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Name	Data type	Default value	Accessi- ble from HMI/OPC UA/Web API	Wri- ta- ble fro- m HM I/O PC UA/ We b API	Visible in HMI engi- neer- ing	Set- point	Comment
F_RTG_SIG	DWord	16#0	True	True	True	False	Collective F-signature of the F- Runtime group
▼ F_RTG_DAT	DTL	DTL#1970-01-01-0 0:00:00	True	True	True	False	Compilation date of the F-Run- time group
YEAR	UInt	1970	True	True	True	False	
MONTH	USInt	1	True	True	True	False	
DAY	USInt	1	True	True	True	False	
WEEKDAY	USInt	5	True	True	True	False	
HOUR	USInt	0	True	True	True	False	
MINUTE	USInt	0	True	True	True	False	
SECOND	USInt	0	True	True	True	False	
NANOSECOND	UDInt	0	True	True	True	False	
VERS_S7SAF	DWord	16#0	True	True	True	False	Version label of STEP 7 Safety

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Watch and force tables

### Force table

Name	Address	Display format	Force value	Comment
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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN]

### Traces

Name

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Traces

### Measurements

This folder is empty.

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Traces

### Combined measurements

Name

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / OPC UA communication

### Server interfaces

This folder is empty.



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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / OPC UA communication

### Client interfaces

This folder is empty.

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / PLC supervisions & alarms

### Supervisions

This folder is empty.

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / PLC supervisions & alarms

### PLC alarms



#### PLC alarms




No entries



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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / PLC supervisions & alarms




### System alarms

System alarms	
Name	 SDIAG_ALCAT_SUBMODUL_MSG_0002
Type	PLC alarm
ID	1
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	2/16/2023 11:30 AM
Last change	2/16/2023 11:30 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	
Name	 SDIAG_ALCAT_MODUL_MSG_0003
Type	PLC alarm
ID	2
Location	PLC_1
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@
Alarm class	No Acknowledgement
Acknowledgment	False
Information only	True
Priority	0
Report	False
Created by	System diagnostics
Date created	2/16/2023 11:30 AM
Last change	2/16/2023 11:30 AM
Group ID	0
Additional text 1	PLC_1
Additional text 2	
Additional text 3	
Additional text 4	
Additional text 5	
Additional text 6	
Additional text 7	
Additional text 8	
Additional text 9	



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<b>Name</b>	 SDIAG_ALCAT_RACK_MSG_0004	
<b>Type</b>	PLC alarm	
<b>ID</b>	3	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	True	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_DEVICE_MSG_0005	
<b>Type</b>	PLC alarm	
<b>ID</b>	4	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	True	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_IOSYSTEM_MSG_0006	
<b>Type</b>	PLC alarm	
<b>ID</b>	5	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#276K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	

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Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_OST_MSG_000D	
Type	PLC alarm	
ID	6	
Location	PLC_1	
Alarm text	CPU status message: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_INFO_MSG_000F	
Type	PLC alarm	
ID	7	
Location	PLC_1	
Alarm text	CPU info: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	



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Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_ERR_MSG_0010	
Type	PLC alarm	
ID	8	
Location	PLC_1	
Alarm text	CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_MD_MSG_0011	
Type	PLC alarm	
ID	9	
Location	PLC_1	
Alarm text	CPU maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		




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Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_MR_MSG1_0012	
Type	PLC alarm	
ID	10	
Location	PLC_1	
Alarm text	CPU maintenance required: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_TMPERR_MSG_0013	
Type	PLC alarm	
ID	11	
Location	PLC_1	
Alarm text	Temporary CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CH_ERR_MSG_0015	
Type	PLC alarm	
ID	12	







Totally Integrated Automation Portal		
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Error: @1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	True	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_ECH_ERR_MSG_0016	
<b>Type</b>	PLC alarm	
<b>ID</b>	13	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Error: @1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	True	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_CH_MD_MSG_0018	
<b>Type</b>	PLC alarm	
<b>ID</b>	14	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Maintenance demanded:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	True	

Totally Integrated Automation Portal		
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	SDIAG_ALCAT_ECH_MD_MSG_0019	
Type	PLC alarm	
ID	15	
Location	PLC_1	
Alarm text	Maintenance demanded:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	SDIAG_ALCAT_CH_MR_MSG_001B	
Type	PLC alarm	
ID	16	
Location	PLC_1	
Alarm text	Maintenance required:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	




Totally Integrated Automation Portal		
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_ECH_MR_MSG_001C	
Type	PLC alarm	
ID	17	
Location	PLC_1	
Alarm text	Maintenance required:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_SUB_ERR_MSG_001E	
Type	PLC alarm	
ID	18	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		

Totally Integrated Automation Portal		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_ESUB_ERR_MSG_001F	
Type	PLC alarm	
ID	19	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_SUB_MD_MSG_0021	
Type	PLC alarm	
ID	20	
Location	PLC_1	
Alarm text	Maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	True	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_ESUB_MD_MSG_0022	
Type	PLC alarm	
ID	21	
Location	PLC_1	

Totally Integrated Automation Portal		
<b>Alarm text</b>	Maintenance demanded: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	True	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_SUB_MR_MSG_0024	
<b>Type</b>	PLC alarm	
<b>ID</b>	22	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Maintenance required: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	True	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_ESUB_MR_MSG_0025	
<b>Type</b>	PLC alarm	
<b>ID</b>	23	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Maintenance required: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	True	
<b>Priority</b>	0	



Totally Integrated Automation Portal		
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_CONFIG_INFO_0028	
<b>Type</b>	PLC alarm	
<b>ID</b>	24	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	True	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_CONFIG_REPORT_0029	
<b>Type</b>	PLC alarm	
<b>ID</b>	25	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	True	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		




Totally Integrated Automation Portal																																																																																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 40%; padding: 2px;">Additional text 3</td><td style="width: 60%;"></td></tr> <tr><td style="padding: 2px;">Additional text 4</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 5</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 6</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 7</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 8</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 9</td><td></td></tr> <tr><td style="padding: 2px;">Name</td><td> SDIAG_ALCAT_SECU_EV_MSG_005E</td></tr> <tr><td style="padding: 2px;">Type</td><td>PLC alarm</td></tr> <tr><td style="padding: 2px;">ID</td><td>26</td></tr> <tr><td style="padding: 2px;">Location</td><td>PLC_1</td></tr> <tr><td style="padding: 2px;">Alarm text</td><td>Security event: @1W%t#7W@ @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@</td></tr> <tr><td style="padding: 2px;">Info text</td><td>Short name: @6W%t#260K@ Order number: @6W%t#265K@</td></tr> <tr><td style="padding: 2px;">Alarm class</td><td>No Acknowledgement</td></tr> <tr><td style="padding: 2px;">Acknowledgment</td><td>False</td></tr> <tr><td style="padding: 2px;">Information only</td><td>True</td></tr> <tr><td style="padding: 2px;">Priority</td><td>0</td></tr> <tr><td style="padding: 2px;">Report</td><td>False</td></tr> <tr><td style="padding: 2px;">Created by</td><td>Security</td></tr> <tr><td style="padding: 2px;">Date created</td><td>2/16/2023 11:30 AM</td></tr> <tr><td style="padding: 2px;">Last change</td><td>2/16/2023 11:30 AM</td></tr> <tr><td style="padding: 2px;">Group ID</td><td>0</td></tr> <tr><td style="padding: 2px;">Additional text 1</td><td>PLC_1</td></tr> <tr><td style="padding: 2px;">Additional text 2</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 3</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 4</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 5</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 6</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 7</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 8</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 9</td><td></td></tr> <tr><td style="padding: 2px;">Name</td><td> SDIAG_ALCAT_SECU_EV_INFO_005F</td></tr> <tr><td style="padding: 2px;">Type</td><td>PLC alarm</td></tr> <tr><td style="padding: 2px;">ID</td><td>27</td></tr> <tr><td style="padding: 2px;">Location</td><td>PLC_1</td></tr> <tr><td style="padding: 2px;">Alarm text</td><td>Security information: @1W%t#7W@ @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@</td></tr> <tr><td style="padding: 2px;">Info text</td><td>Short name: @6W%t#260K@ Order number: @6W%t#265K@</td></tr> <tr><td style="padding: 2px;">Alarm class</td><td>No Acknowledgement</td></tr> <tr><td style="padding: 2px;">Acknowledgment</td><td>False</td></tr> <tr><td style="padding: 2px;">Information only</td><td>True</td></tr> <tr><td style="padding: 2px;">Priority</td><td>0</td></tr> <tr><td style="padding: 2px;">Report</td><td>False</td></tr> <tr><td style="padding: 2px;">Created by</td><td>Security</td></tr> <tr><td style="padding: 2px;">Date created</td><td>2/16/2023 11:30 AM</td></tr> <tr><td style="padding: 2px;">Last change</td><td>2/16/2023 11:30 AM</td></tr> <tr><td style="padding: 2px;">Group ID</td><td>0</td></tr> <tr><td style="padding: 2px;">Additional text 1</td><td>PLC_1</td></tr> <tr><td style="padding: 2px;">Additional text 2</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 3</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 4</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 5</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 6</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 7</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 8</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 9</td><td></td></tr> </table>			Additional text 3		Additional text 4		Additional text 5		Additional text 6		Additional text 7		Additional text 8		Additional text 9		Name	SDIAG_ALCAT_SECU_EV_MSG_005E	Type	PLC alarm	ID	26	Location	PLC_1	Alarm text	Security event: @1W%t#7W@ @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	Alarm class	No Acknowledgement	Acknowledgment	False	Information only	True	Priority	0	Report	False	Created by	Security	Date created	2/16/2023 11:30 AM	Last change	2/16/2023 11:30 AM	Group ID	0	Additional text 1	PLC_1	Additional text 2		Additional text 3		Additional text 4		Additional text 5		Additional text 6		Additional text 7		Additional text 8		Additional text 9		Name	SDIAG_ALCAT_SECU_EV_INFO_005F	Type	PLC alarm	ID	27	Location	PLC_1	Alarm text	Security information: @1W%t#7W@ @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	Alarm class	No Acknowledgement	Acknowledgment	False	Information only	True	Priority	0	Report	False	Created by	Security	Date created	2/16/2023 11:30 AM	Last change	2/16/2023 11:30 AM	Group ID	0	Additional text 1	PLC_1	Additional text 2		Additional text 3		Additional text 4		Additional text 5		Additional text 6		Additional text 7		Additional text 8		Additional text 9	
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Type	PLC alarm																																																																																																															
ID	26																																																																																																															
Location	PLC_1																																																																																																															
Alarm text	Security event: @1W%t#7W@ @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@																																																																																																															
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@																																																																																																															
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Type	PLC alarm																																																																																																															
ID	27																																																																																																															
Location	PLC_1																																																																																																															
Alarm text	Security information: @1W%t#7W@ @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@																																																																																																															
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@																																																																																																															
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Totally Integrated Automation Portal		
<b>Name</b>	 SDIAG_ALCAT_USER_MSG_0080	
<b>Type</b>	PLC alarm	
<b>ID</b>	28	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	User message: @1W%t#2W@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	True	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_PLC_MSG_00FF	
<b>Type</b>	PLC alarm	
<b>ID</b>	29	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	PLC notification: @1W%t#7W@ @5W%t#7W@ @6W%t#256K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	True	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_SUBMODUL_MSG_0102	
<b>Type</b>	PLC alarm	
<b>ID</b>	30	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	















Totally Integrated Automation Portal		
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	SDIAG_ALCAT_MODUL_MSG_0103	
Type	PLC alarm	
ID	31	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	SDIAG_ALCAT_RACK_MSG_0104	
Type	PLC alarm	
ID	32	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	




Totally Integrated Automation Portal		
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_DEVICE_MSG_0105	
Type	PLC alarm	
ID	33	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_IOSYSTEM_MSG_0106	
Type	PLC alarm	
ID	34	
Location	PLC_1	
Alarm text	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#276K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		



Totally Integrated Automation Portal		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_OST_MSG_010D	
Type	PLC alarm	
ID	35	
Location	PLC_1	
Alarm text	CPU status message: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_ERR_MSG_0110	
Type	PLC alarm	
ID	36	
Location	PLC_1	
Alarm text	CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CPU_MD_MSG_0111	
Type	PLC alarm	
ID	37	
Location	PLC_1	

Totally Integrated Automation Portal		
<b>Alarm text</b>	CPU maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	False	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_CPU_MR_MSG1_0112	
<b>Type</b>	PLC alarm	
<b>ID</b>	38	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	CPU maintenance required: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	False	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_CH_ERR_MSG_0115	
<b>Type</b>	PLC alarm	
<b>ID</b>	39	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Error: @1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	False	
<b>Priority</b>	0	

Totally Integrated Automation Portal																																																																																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Report</td> <td>False</td> </tr> <tr> <td>Created by</td> <td>System diagnostics</td> </tr> <tr> <td>Date created</td> <td>2/16/2023 11:30 AM</td> </tr> <tr> <td>Last change</td> <td>2/16/2023 11:30 AM</td> </tr> <tr> <td>Group ID</td> <td>0</td> </tr> <tr> <td>Additional text 1</td> <td>PLC_1</td> </tr> <tr> <td>Additional text 2</td> <td></td> </tr> <tr> <td>Additional text 3</td> <td></td> </tr> <tr> <td>Additional text 4</td> <td></td> </tr> <tr> <td>Additional text 5</td> <td></td> </tr> <tr> <td>Additional text 6</td> <td></td> </tr> <tr> <td>Additional text 7</td> <td></td> </tr> <tr> <td>Additional text 8</td> <td></td> </tr> <tr> <td>Additional text 9</td> <td></td> </tr> <tr> <td>Name</td> <td> SDIAG_ALCAT_ECH_ERR_MSG_0116</td> </tr> <tr> <td>Type</td> <td>PLC alarm</td> </tr> <tr> <td>ID</td> <td>40</td> </tr> <tr> <td>Location</td> <td>PLC_1</td> </tr> <tr> <td>Alarm text</td> <td>Error: @1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@</td> </tr> <tr> <td>Info text</td> <td>Short name: @6W%t#260K@ Order number: @6W%t#265K@</td> </tr> <tr> <td>Alarm class</td> <td>No Acknowledgement</td> </tr> <tr> <td>Acknowledgment</td> <td>False</td> </tr> <tr> <td>Information only</td> <td>False</td> </tr> <tr> <td>Priority</td> <td>0</td> </tr> <tr> <td>Report</td> <td>False</td> </tr> <tr> <td>Created by</td> <td>System diagnostics</td> </tr> <tr> <td>Date created</td> <td>2/16/2023 11:30 AM</td> </tr> <tr> <td>Last change</td> <td>2/16/2023 11:30 AM</td> </tr> <tr> <td>Group ID</td> <td>0</td> </tr> <tr> <td>Additional text 1</td> <td>PLC_1</td> </tr> <tr> <td>Additional text 2</td> <td></td> </tr> <tr> <td>Additional text 3</td> <td></td> </tr> <tr> <td>Additional text 4</td> <td></td> </tr> <tr> <td>Additional text 5</td> <td></td> </tr> <tr> <td>Additional text 6</td> <td></td> </tr> <tr> <td>Additional text 7</td> <td></td> </tr> <tr> <td>Additional text 8</td> <td></td> </tr> <tr> <td>Additional text 9</td> <td></td> </tr> <tr> <td>Name</td> <td> SDIAG_ALCAT_CH_MD_MSG_0118</td> </tr> <tr> <td>Type</td> <td>PLC alarm</td> </tr> <tr> <td>ID</td> <td>41</td> </tr> <tr> <td>Location</td> <td>PLC_1</td> </tr> <tr> <td>Alarm text</td> <td>Maintenance demanded:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@</td> </tr> <tr> <td>Info text</td> <td>Short name: @6W%t#260K@ Order number: @6W%t#265K@</td> </tr> <tr> <td>Alarm class</td> <td>No Acknowledgement</td> </tr> <tr> <td>Acknowledgment</td> <td>False</td> </tr> <tr> <td>Information only</td> <td>False</td> </tr> <tr> <td>Priority</td> <td>0</td> </tr> <tr> <td>Report</td> <td>False</td> </tr> <tr> <td>Created by</td> <td>System diagnostics</td> </tr> <tr> <td>Date created</td> <td>2/16/2023 11:30 AM</td> </tr> <tr> <td>Last change</td> <td>2/16/2023 11:30 AM</td> </tr> <tr> <td>Group ID</td> <td>0</td> </tr> <tr> <td>Additional text 1</td> <td>PLC_1</td> </tr> <tr> <td>Additional text 2</td> <td></td> </tr> </table>			Report	False	Created by	System diagnostics	Date created	2/16/2023 11:30 AM	Last change	2/16/2023 11:30 AM	Group ID	0	Additional text 1	PLC_1	Additional text 2		Additional text 3		Additional text 4		Additional text 5		Additional text 6		Additional text 7		Additional text 8		Additional text 9		Name	 SDIAG_ALCAT_ECH_ERR_MSG_0116	Type	PLC alarm	ID	40	Location	PLC_1	Alarm text	Error: @1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	Alarm class	No Acknowledgement	Acknowledgment	False	Information only	False	Priority	0	Report	False	Created by	System diagnostics	Date created	2/16/2023 11:30 AM	Last change	2/16/2023 11:30 AM	Group ID	0	Additional text 1	PLC_1	Additional text 2		Additional text 3		Additional text 4		Additional text 5		Additional text 6		Additional text 7		Additional text 8		Additional text 9		Name	 SDIAG_ALCAT_CH_MD_MSG_0118	Type	PLC alarm	ID	41	Location	PLC_1	Alarm text	Maintenance demanded:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	Alarm class	No Acknowledgement	Acknowledgment	False	Information only	False	Priority	0	Report	False	Created by	System diagnostics	Date created	2/16/2023 11:30 AM	Last change	2/16/2023 11:30 AM	Group ID	0	Additional text 1	PLC_1	Additional text 2	
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 35%; padding: 2px;">Additional text 3</td><td style="width: 65%;"></td></tr> <tr><td style="padding: 2px;">Additional text 4</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 5</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 6</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 7</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 8</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 9</td><td></td></tr> <tr><td style="padding: 2px;">Name</td><td> SDIAG_ALCAT_ECH_MD_MSG_0119</td></tr> <tr><td style="padding: 2px;">Type</td><td>PLC alarm</td></tr> <tr><td style="padding: 2px;">ID</td><td>42</td></tr> <tr><td style="padding: 2px;">Location</td><td>PLC_1</td></tr> <tr><td style="padding: 2px;">Alarm text</td><td>Maintenance demanded:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@</td></tr> <tr><td style="padding: 2px;">Info text</td><td>Short name: @6W%t#260K@ Order number: @6W%t#265K@</td></tr> <tr><td style="padding: 2px;">Alarm class</td><td>No Acknowledgement</td></tr> <tr><td style="padding: 2px;">Acknowledgment</td><td>False</td></tr> <tr><td style="padding: 2px;">Information only</td><td>False</td></tr> <tr><td style="padding: 2px;">Priority</td><td>0</td></tr> <tr><td style="padding: 2px;">Report</td><td>False</td></tr> <tr><td style="padding: 2px;">Created by</td><td>System diagnostics</td></tr> <tr><td style="padding: 2px;">Date created</td><td>2/16/2023 11:30 AM</td></tr> <tr><td style="padding: 2px;">Last change</td><td>2/16/2023 11:30 AM</td></tr> <tr><td style="padding: 2px;">Group ID</td><td>0</td></tr> <tr><td style="padding: 2px;">Additional text 1</td><td>PLC_1</td></tr> <tr><td style="padding: 2px;">Additional text 2</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 3</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 4</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 5</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 6</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 7</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 8</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 9</td><td></td></tr> <tr><td style="padding: 2px;">Name</td><td> SDIAG_ALCAT_CH_MR_MSG_011B</td></tr> <tr><td style="padding: 2px;">Type</td><td>PLC alarm</td></tr> <tr><td style="padding: 2px;">ID</td><td>43</td></tr> <tr><td style="padding: 2px;">Location</td><td>PLC_1</td></tr> <tr><td style="padding: 2px;">Alarm text</td><td>Maintenance required:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@</td></tr> <tr><td style="padding: 2px;">Info text</td><td>Short name: @6W%t#260K@ Order number: @6W%t#265K@</td></tr> <tr><td style="padding: 2px;">Alarm class</td><td>No Acknowledgement</td></tr> <tr><td style="padding: 2px;">Acknowledgment</td><td>False</td></tr> <tr><td style="padding: 2px;">Information only</td><td>False</td></tr> <tr><td style="padding: 2px;">Priority</td><td>0</td></tr> <tr><td style="padding: 2px;">Report</td><td>False</td></tr> <tr><td style="padding: 2px;">Created by</td><td>System diagnostics</td></tr> <tr><td style="padding: 2px;">Date created</td><td>2/16/2023 11:30 AM</td></tr> <tr><td style="padding: 2px;">Last change</td><td>2/16/2023 11:30 AM</td></tr> <tr><td style="padding: 2px;">Group ID</td><td>0</td></tr> <tr><td style="padding: 2px;">Additional text 1</td><td>PLC_1</td></tr> <tr><td style="padding: 2px;">Additional text 2</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 3</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 4</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 5</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 6</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 7</td><td></td></tr> <tr><td style="padding: 2px;">Additional text 8</td><td></td></tr> </table>			Additional text 3		Additional text 4		Additional text 5		Additional text 6		Additional text 7		Additional text 8		Additional text 9		Name	 SDIAG_ALCAT_ECH_MD_MSG_0119	Type	PLC alarm	ID	42	Location	PLC_1	Alarm text	Maintenance demanded:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	Alarm class	No Acknowledgement	Acknowledgment	False	Information only	False	Priority	0	Report	False	Created by	System diagnostics	Date created	2/16/2023 11:30 AM	Last change	2/16/2023 11:30 AM	Group ID	0	Additional text 1	PLC_1	Additional text 2		Additional text 3		Additional text 4		Additional text 5		Additional text 6		Additional text 7		Additional text 8		Additional text 9		Name	 SDIAG_ALCAT_CH_MR_MSG_011B	Type	PLC alarm	ID	43	Location	PLC_1	Alarm text	Maintenance required:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	Alarm class	No Acknowledgement	Acknowledgment	False	Information only	False	Priority	0	Report	False	Created by	System diagnostics	Date created	2/16/2023 11:30 AM	Last change	2/16/2023 11:30 AM	Group ID	0	Additional text 1	PLC_1	Additional text 2		Additional text 3		Additional text 4		Additional text 5		Additional text 6		Additional text 7		Additional text 8	
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Location	PLC_1																																																																																																													
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Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@																																																																																																													
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Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@																																																																																																													
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Date created	2/16/2023 11:30 AM																																																																																																													
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Additional text 1	PLC_1																																																																																																													
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Additional text 8																																																																																																														

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<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_ECH_MR_MSG_011C	
<b>Type</b>	PLC alarm	
<b>ID</b>	44	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Maintenance required:@1W%t#7W@ - @5W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	False	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_SUB_ERR_MSG_011E	
<b>Type</b>	PLC alarm	
<b>ID</b>	45	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Error: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	False	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_ESUB_ERR_MSG_011F	
<b>Type</b>	PLC alarm	
<b>ID</b>	46	
<b>Location</b>	PLC_1	

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<b>Alarm text</b>	Error: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	False	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_SUB_MD_MSG_0121	
<b>Type</b>	PLC alarm	
<b>ID</b>	47	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	False	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	 SDIAG_ALCAT_ESUB_MD_MSG_0122	
<b>Type</b>	PLC alarm	
<b>ID</b>	48	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Maintenance demanded: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	False	
<b>Priority</b>	0	



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<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	SDIAG_ALCAT_SUB_MR_MSG_0124	
<b>Type</b>	PLC alarm	
<b>ID</b>	49	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Maintenance required: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	False	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		
<b>Additional text 3</b>		
<b>Additional text 4</b>		
<b>Additional text 5</b>		
<b>Additional text 6</b>		
<b>Additional text 7</b>		
<b>Additional text 8</b>		
<b>Additional text 9</b>		
<b>Name</b>	SDIAG_ALCAT_ESUB_MR_MSG_0125	
<b>Type</b>	PLC alarm	
<b>ID</b>	50	
<b>Location</b>	PLC_1	
<b>Alarm text</b>	Maintenance required: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	
<b>Info text</b>	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
<b>Alarm class</b>	No Acknowledgement	
<b>Acknowledgment</b>	False	
<b>Information only</b>	False	
<b>Priority</b>	0	
<b>Report</b>	False	
<b>Created by</b>	System diagnostics	
<b>Date created</b>	2/16/2023 11:30 AM	
<b>Last change</b>	2/16/2023 11:30 AM	
<b>Group ID</b>	0	
<b>Additional text 1</b>	PLC_1	
<b>Additional text 2</b>		

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Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_CONFIG_INFO_0128	
Type	PLC alarm	
ID	51	
Location	PLC_1	
Alarm text	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		
Name	 SDIAG_ALCAT_PLC_MSG_01FF	
Type	PLC alarm	
ID	52	
Location	PLC_1	
Alarm text	PLC notification: @1W%t#7W@ @5W%t#7W@ @6W%t#256K@ @6W%t#262K@ @6W%t#263K@	
Info text	Short name: @6W%t#260K@ Order number: @6W%t#265K@	
Alarm class	No Acknowledgement	
Acknowledgment	False	
Information only	False	
Priority	0	
Report	False	
Created by	System diagnostics	
Date created	2/16/2023 11:30 AM	
Last change	2/16/2023 11:30 AM	
Group ID	0	
Additional text 1	PLC_1	
Additional text 2		
Additional text 3		
Additional text 4		
Additional text 5		
Additional text 6		
Additional text 7		
Additional text 8		
Additional text 9		

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN]

### PLC alarm text lists

This folder is empty.

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Local modules

## PLC\_1 [CPU 1515TF-2 PN]

PLC\_1

## General\Project information

Name	PLC_1	Author	PLC Traning
Comment		Rack	0
Slot	1		

## General\Catalog information

Short designation	CPU 1515TF-2 PN	Description	Fail-safe technology CPU with display; work memory 750 KB code and 3 MB data; can be used for safety applications; supports PROFIsafe V2; 30 ns bit operation time; 5-stage protection concept, technology functions: extended motion control, closed-loop control, counting and measuring; tracing; Runtime options; isochronous mode (central); for all PROFINET interfaces: transport protocol TCP/IP, secure Open User Communication, S7 communication, S7 routing, IP forwarding, Web server, DNS client, OPC UA: Server DA, Client DA, methods, companion specifications; 1st interface: PROFINET IO controller, supports RT/IRT, performance upgrade PROFINET V2.3, 2 ports, I-Device, MRP, MRPD, isochronous mode; 2nd interface: PROFINET IO controller, supports RT, I-Device; firmware V2.8
Article number	6ES7 515-2UM01-0AB0	Firmware version	V2.8

## General\Identification &amp; Maintenance

Plant designation		Location identifier	
Installation date	2023-02-12 12:56:35.524	Additional information	

## General\Checksums

Text lists	FA 70 E8 75 1D 5A 8E 29	Software	BC 3B 30 88 D3 B6 6D 91
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## Fail-safe\F-activation

F-capability activated	1		
------------------------	---	---	--

## Fail-safe\F-parameters

Central F-source address	1		Default F-monitoring time for central F-I/O	150ms	
--------------------------	---	---	---	-------	---

## Fail-safe\F-parameters\F-destination address range for PROFIsafe address type 1

Low limit for F-destination addresses	1		High limit for F-destination addresses	99	
---------------------------------------	---	---	--	----	---

## PROFINET interface [X1]\General

Name	PROFINET interface_1	Author	PLC Traning
Comment			

## PROFINET interface [X1]\F-parameters

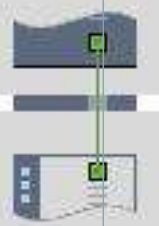
Default F-monitoring time for F-I/O of this interface	150ms		
---	-------	---	--

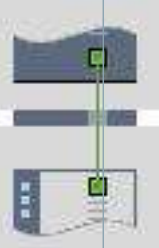
## PROFINET interface [X1]\Ethernet addresses\Interface networked with

Subnet:	Not connected		
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## PROFINET interface [X1]\Ethernet addresses\IP protocol

IP configuration	Set IP address in the project	IP address:	192.168.0.1
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Subnet mask:	255.255.255.0	Use router	False
<b>PROFINET interface [X1]\Ethernet addresses\PROFINET</b>			
PROFINET device name is set directly at the device	False	Generate PROFINET device name automatically	True
PROFINET device name:	plc_1.profinet interface_1	Converted name:	plcxb1.profinetxainterfacexb1036c
Device number:	0		
<b>PROFINET interface [X1]\Time-of-day synchronization\NTP mode</b>			
Note	Time synchronization for all PROFINET interfaces take place within the settings for time synchronization of the PROFINET interface [X1].	Enable time synchronization via NTP server	False
	IP addresses	Server 1	0.0.0.0
Server 2	0.0.0.0	Server 3	0.0.0.0
Server 4	0.0.0.0	Update interval	10s
<b>PROFINET interface [X1]\Operating mode</b>			
IO controller	True	IO system	
Device number	0	IO device	False
<b>PROFINET interface [X1]\Advanced options\Interface options</b>			
Call the user program if communication errors occur	False	Support device replacement without exchangeable medium	True
Permit overwriting of device names of all assigned IO devices	False	Limit data infeed into the network	True
Use IEC V2.2 LLDP mode	False	Keep-Alive connection monitoring:	30s
<b>PROFINET interface [X1]\Advanced options\Real time settings\IO communication</b>			
Send clock:	4.000ms		
<b>PROFINET interface [X1]\Advanced options\Real time settings\Synchronization</b>			
RT class:	RT,IRT		
<b>PROFINET interface [X1]\Advanced options\Real time settings\Real time options</b>			
Calculated bandwidth for cyclic IO data:	0.000ms	Calculated bandwidth for cyclic IO data:	0.000%
<b>PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\General</b>			
Name	Port_1	Author	PLC Training
Comment			
<b>PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Local port:</b>			
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_1 [X1 P1 R]	Medium:	Copper
Cable name:	---		
			
<b>PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port interconnection\Partner port:</b>			
	Monitoring of partner port is not possible	Alternative partners	False
Partner port:	Any partner		
<b>PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Activate</b>			
Activate this port for use	True		

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<b>PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Connection</b>		
Transmission rate / duplex:	Automatic	Monitor
Enable autonegotiation	True	False
<b>PROFINET interface [X1]\Advanced options\Port [X1 P1 R]\Port options\Boundaries</b>		
End of detection of accessible devices	False	End of topology discovery
End of the sync domain	False	False
<b>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\General</b>		
Name	Port_2	Author
Comment		PLC Traning
<b>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Local port:</b>		
Local port:	PLC_1\PROFINET interface_1 [X1]\Port_2 [X1 P2 R]	Medium:
Cable name:	---	Copper
		
<b>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port interconnection\Partner port:</b>		
	Monitoring of partner port is not possible	Alternative partners
Partner port:	Any partner	False
<b>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Activate</b>		
Activate this port for use	True	
<b>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Connection</b>		
Transmission rate / duplex:	Automatic	Monitor
Enable autonegotiation	True	False
<b>PROFINET interface [X1]\Advanced options\Port [X1 P2 R]\Port options\Boundaries</b>		
End of detection of accessible devices	False	End of topology discovery
End of the sync domain	False	False
<b>PROFINET interface [X1]\Web server access</b>		
Note	The Web server must also be activated in the properties of the PLC.	Enable Web server via IP address of this interface
		False
<b>PROFINET interface [X2]\General</b>		
Name	PROFINET interface_2	Author
Comment		PLC Traning
<b>PROFINET interface [X2]\F-parameters</b>		
Default F-monitoring time for F-I/O of this interface	150ms	
<b>PROFINET interface [X2]\Ethernet addresses\Interface networked with</b>		
Subnet:	Not connected	
<b>PROFINET interface [X2]\Ethernet addresses\IP protocol</b>		
IP configuration	Set IP address in the project	IP address:
Subnet mask:	255.255.255.0	Use router
		192.168.1.1
		False



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Enable autonegotiation		True	
<b>PROFINET interface [X2]\Advanced options\Port [X2 P1]\Port options\Boundaries</b>			
End of detection of accessible devices	False	End of topology discovery	False
End of the sync domain	False		
<b>PROFINET interface [X2]\Web server access</b>			
Note	The Web server must also be activated in the properties of the PLC.		Enable Web server via IP address of this interface
<b>Startup</b>			
Startup after POWER ON	Warm restart - Operating mode before POWER OFF	Comparison preset to actual configuration	Startup CPU even if mismatch
Configuration time	60000ms		
<b>Cycle</b>			
Maximum cycle time	150ms		
Enable minimum cycle time for cyclic OBs	True	Minimum cycle time	1ms
<b>Communication load</b>			
Cycle load due to communication	20%		
<b>System and clock memory\System memory bits</b>			
Enable the use of system memory byte	False	Address of system memory byte (MBx)	1
First cycle		Diagnostic status changed	
Always 1 (high)		Always 0 (low)	
<b>System and clock memory\Clock memory bits</b>			
Enable the use of clock memory byte	False	Address of clock memory byte (MBx)	0
10 Hz clock		5 Hz clock	
2.5 Hz clock		2 Hz clock	
1.25 Hz clock		1 Hz clock	
0.625 Hz clock		0.5 Hz clock	
<b>SIMATIC Memory Card\Diagnostics</b>			
Aging of the SIMATIC memory card	False	Threshold value	80%
<b>System diagnostics\General</b>			
Activate system diagnostics for this device	True	Report network faults as maintenance instead of fault	False
<b>PLC alarms\General</b>			
Central alarm management in the PLC	True		
<b>Web server\General</b>			
Activate web server on this module	False	Permit access only with HTTPS	True
<b>Web server\Automatic update</b>			
Enable automatic update	True	Update interval	0s
<b>Web server\User management</b>			
User name		User rights	
Everybody			
<b>Web server\User-defined web pages</b>			
Application name	HTML source path	Default HTML page	Files with dynamic content
		index.htm	.htm;.html
			Web DB number
			333
			Fragment DB number
			334



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<b>Web server\Overview of interfaces</b>		
<b>Device</b>	<b>Interface</b>	<b>Enabled web server access</b>
PLC_1	PROFINET interface_1	False
PLC_1	PROFINET interface_2	False
<b>Display\General\Display standby mode</b>		
<b>Time to standby mode</b>	30 minutes	
<b>Display\General\Energy saving mode</b>		
<b>Time to energy saving mode</b>	15 minutes	
<b>Display\General\Display language</b>		
<b>Default language on display</b>	English	
<b>Display\Automatic update</b>		
<b>Time to update</b>	5 seconds	
<b>Display&gt;Password\Display protection</b>		
<b>Enable write access</b>	True	<b>Enable display protection</b> False
<b>Display\User-defined logo</b>		
<b>User logo activated</b>	False	<b>Adapt logo</b> False
<b>Resolution</b>	240x260	<b>Company logo</b> ---
<b>User interface languages</b>		
<b>Assign project language</b>	<b>User interface languages</b>	
English (United States)	German	
English (United States)	English	
English (United States)	French	
English (United States)	Spanish	
English (United States)	Italian	
English (United States)	Japanese	
English (United States)	Chinese (simplified)	
English (United States)	Korean	
English (United States)	Russian	
English (United States)	Turkish	
English (United States)	Portuguese (Brazil)	
<b>Time of day\Local time</b>		
<b>Time zone</b>	(UTC) Dublin, Edinburgh, Lisbon, London	
<b>Time of day\Daylight saving time</b>		
<b>Activate daylight saving time</b>	True	<b>Difference between standard and daylight saving time</b> 60mins
<b>Time of day\Daylight saving time\Start of daylight saving time</b>		
<b>Selection of the week of</b>	Last	<b>Selection of the week-day at</b> Sunday
	March	01:00 a.m.
<b>Time of day\Daylight saving time\Start of standard time</b>		
<b>Selection of the week of</b>	Last	<b>Selection of the week-day at</b> Sunday
	October	02:00 a.m.
<b>Protection</b>		
<b>Level of protection</b>	Full access with fail-safe (no protection)	
<b>Protection\Connection mechanisms</b>		
<b>Permit access with PUT/GET communication from remote partner</b>	False	

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<b>Protection\Security event</b>				
<b>Summarize security events in case of high message volume</b>	True	<b>Length of an interval</b> 20		
<b>Unit</b>	seconds			
<b>OPC UA\Accessibility of the server</b>				
<b>Activate OPC UA server</b>	False			
<b>System power supply\General</b>				
<b>General</b>	Connection to supply voltage L+			
<b>System power supply\Power segment overview</b>				
<b>Module</b>	<b>Slot</b>	<b>Supply/consumption</b>		
PLC_1	1	12.00W		
F-DI 16x24V DC_1	2	-0.90W		
F-DQ 8x24V DC/2A PPM_1	3	-0.80W		
DI 16x24VDC BA_1	4	-1.05W		
	Summary	9.25W		
<b>Advanced configuration\DNS configuration</b>				
<b>No DNS server address is configured.</b>				
<b>Advanced configuration\IP Forwarding\Configuration IPv4 Forwarding</b>				
<b>Enable IPv4 forwarding for interfaces of this PLC</b>	False			
<b>Advanced configuration\Configuration control\Configuration control for central configuration</b>				
<b>Allow reconfiguration of device via the user program</b>	False			
<b>Connection resources\</b>				
	<b>Station resources - Reserved - Maximum</b>	<b>Station resources - Reserved - Configured</b>	<b>Station resources - Dynamic - Configured</b>	<b>Module resources - PLC_1 [CPU 1515TF-2 PN] - Configured</b>
Maximum number of resources:		10	98	108
	Maximum	Configured	Configured	Configured
PG communication:	4	-	-	-
HMI communication:	4	0	0	0
S7 communication:	0	-	0	0
Open user communication:	0	-	0	0
Web communication:	2	-	-	-
OPC UA client/server communication:	0	-	-	-
Other communication:	-	-	0	0
Total resources used:		0	0	0
Available resources:		10	98	108
<b>Overview of addresses\Overview of addresses\Overview of addresses</b>				
<b>Inputs</b>	True		<b>Outputs</b>	True
<b>Address gaps</b>	False		<b>Slot</b>	True

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<b>Type</b>	I	<b>Addr. from</b>	0	<b>Addr. to</b>	8	<b>Module</b>	F-DI 16x24V DC_1
<b>PIP</b>	-	<b>OB</b>	-	<b>Device name</b>	PLC_1 [CPU 1515TF-2 PN]	<b>Device number</b>	-
<b>Size</b>	9 Bytes	<b>Master / IO-system</b>	-	<b>Rack</b>	0	<b>Slot</b>	2
<b>Type</b>	O	<b>Addr. from</b>	0	<b>Addr. to</b>	4	<b>Module</b>	F-DI 16x24V DC_1
<b>PIP</b>	-	<b>OB</b>	-	<b>Device name</b>	PLC_1 [CPU 1515TF-2 PN]	<b>Device number</b>	-
<b>Size</b>	5 Bytes	<b>Master / IO-system</b>	-	<b>Rack</b>	0	<b>Slot</b>	2
<b>Type</b>	I	<b>Addr. from</b>	9	<b>Addr. to</b>	14	<b>Module</b>	F-DQ 8x24V DC/2A PPM_1
<b>PIP</b>	-	<b>OB</b>	-	<b>Device name</b>	PLC_1 [CPU 1515TF-2 PN]	<b>Device number</b>	-
<b>Size</b>	6 Bytes	<b>Master / IO-system</b>	-	<b>Rack</b>	0	<b>Slot</b>	3
<b>Type</b>	O	<b>Addr. from</b>	9	<b>Addr. to</b>	14	<b>Module</b>	F-DQ 8x24V DC/2A PPM_1
<b>PIP</b>	-	<b>OB</b>	-	<b>Device name</b>	PLC_1 [CPU 1515TF-2 PN]	<b>Device number</b>	-
<b>Size</b>	6 Bytes	<b>Master / IO-system</b>	-	<b>Rack</b>	0	<b>Slot</b>	3
<b>Type</b>	I	<b>Addr. from</b>	15	<b>Addr. to</b>	16	<b>Module</b>	DI 16x24VDC BA_1
<b>PIP</b>	Automatic update	<b>OB</b>	-	<b>Device name</b>	PLC_1 [CPU 1515TF-2 PN]	<b>Device number</b>	-
<b>Size</b>	2 Bytes	<b>Master / IO-system</b>	-	<b>Rack</b>	0	<b>Slot</b>	4
<b>Runtime licenses\OPC UA\Runtime licenses</b>							
<b>Type of required license</b>	None			<b>Type of purchased license</b>	No license		
<b>Runtime licenses\ProDiag\Supervisions</b>							
<b>Number of used supervisions</b>	0						
<b>Runtime licenses\ProDiag\Runtime licenses</b>							
<b>Number of required licenses</b>	None (<= 25 supervisions)			<b>Used ProDiag licenses</b>	No license		
<b>Runtime licenses\Energy Suite\Energy objects</b>							
<b>Number of configured energy objects</b>	0						
<b>Runtime licenses\Energy Suite\Runtime licenses</b>							
<b>Total number of licensed energy objects</b>	0						
<b>Runtime licenses\Energy Suite\Runtime licenses\Number of purchased licenses</b>							
<b>License type '5 energy objects'</b>	No license			<b>License type '10 energy objects'</b>	No license		

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Local modules

## F-DI 16x24V DC\_1

F-DI 16x24V DC_1			
General\Project information			
Name	F-DI 16x24V DC_1	Author	PLC Training
Comment		Rack	0
Slot	2		
General\Catalog information			
Short designation	F-DI 16x24V DC	Description	Digital input module DI 16x24VDC, PROFIsafe V2, fail-safe
Article number	6ES7 526-1BH00-0AB0	Firmware version	V1.0
General\Identification & Maintenance			
Plant designation		Location identifier	
Installation date	2023-02-16 08:18:38.432	Additional information	
Module parameters\General\Startup			
Comparison preset to actual module	From CPU		
Inputs 0 - 15\General			
Name	F-DI 16x24V DC_1	Comment	
Inputs 0 - 15\F-parameters			
Manual assignment of F-monitoring time	False	F-monitoring time	150ms
F-source address	1	F-destination address	65534
F-parameter signature (with addresses)	55940	F-parameter signature (without addresses)	49479
Behavior after channel fault	Passivate channel	Reintegration after channel fault	All channels manually
RIOforFA safety	Yes	PROFIsafe mode	V2 mode
PROFIsafe protocol version	Expanded protocol (XP)	F-I/O DB manual number assignment	Automatic
F-I/O DB-number	30002	F-I/O DB-name	F00000_F-DI16x24VDC_1
Inputs 0 - 15\Inputs\Sensor supply\Sensor supply 0			
Supplied channels	Channels [0...3]	Short-circuit test activated	Yes
Time for short-circuit test	4.2ms	Startup time of sensor after short-circuit test	4.2ms
Inputs 0 - 15\Inputs\Sensor supply\Sensor supply 1			
Supplied channels	Channels [4...7]	Short-circuit test activated	Yes
Time for short-circuit test	4.2ms	Startup time of sensor after short-circuit test	4.2ms
Inputs 0 - 15\Inputs\Sensor supply\Sensor supply 2			
Supplied channels	Channels [8...11]	Short-circuit test activated	Yes
Time for short-circuit test	4.2ms	Startup time of sensor after short-circuit test	4.2ms
Inputs 0 - 15\Inputs\Sensor supply\Sensor supply 3			
Supplied channels	Channels [12...15]	Short-circuit test activated	Yes
Time for short-circuit test	4.2ms	Startup time of sensor after short-circuit test	4.2ms
Inputs 0 - 15\Inputs\Channel parameters\Channel 0, 8			
Sensor evaluation	1oo2 evaluation, equivalent	Discrepancy behavior	Supply value 0

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Discrepancy time	5ms	<input type="checkbox"/> Reintegration after discrepancy error <span style="float: right;">Test 0-Signal not necessary</span>
Inputs 0 - 15\Inputs\Channel parameters\Channel 0, 8\Channel 0\Input parameters		
Channel activated	Yes	<input type="checkbox"/> Input delay <span style="float: right;">3.2ms</span>
Channel failure acknowledge	Manual	<input type="checkbox"/> Pulse extension <span style="float: right;">---sec</span>
Inputs 0 - 15\Inputs\Channel parameters\Channel 0, 8\Channel 0\Chatter monitoring		
Chatter monitoring	No	<input type="checkbox"/> Number of signal changes <span style="float: right;">5</span>
Monitoring window	2sec	<input type="checkbox"/>
Inputs 0 - 15\Inputs\Channel parameters\Channel 0, 8\Channel 8\Input parameters		
Channel activated	Yes	<input type="checkbox"/> Input delay <span style="float: right;">3.2ms</span>
Channel failure acknowledge	Manual	<input type="checkbox"/> Pulse extension <span style="float: right;">---sec</span>
Inputs 0 - 15\Inputs\Channel parameters\Channel 0, 8\Channel 8\Chatter monitoring		
Chatter monitoring	No	<input type="checkbox"/> Number of signal changes <span style="float: right;">5</span>
Monitoring window	2sec	<input type="checkbox"/>
Inputs 0 - 15\Inputs\Channel parameters\Channel 1, 9		
Sensor evaluation	1oo2 evaluation, equivalent	<input type="checkbox"/> Discrepancy behavior <span style="float: right;">Supply value 0</span>
Discrepancy time	5ms	<input type="checkbox"/> Reintegration after discrepancy error <span style="float: right;">Test 0-Signal not necessary</span>
Inputs 0 - 15\Inputs\Channel parameters\Channel 1, 9\Channel 1\Input parameters		
Channel activated	Yes	<input type="checkbox"/> Input delay <span style="float: right;">3.2ms</span>
Channel failure acknowledge	Manual	<input type="checkbox"/> Pulse extension <span style="float: right;">---sec</span>
Inputs 0 - 15\Inputs\Channel parameters\Channel 1, 9\Channel 1\Chatter monitoring		
Chatter monitoring	No	<input type="checkbox"/> Number of signal changes <span style="float: right;">5</span>
Monitoring window	2sec	<input type="checkbox"/>
Inputs 0 - 15\Inputs\Channel parameters\Channel 1, 9\Channel 9\Input parameters		
Channel activated	Yes	<input type="checkbox"/> Input delay <span style="float: right;">3.2ms</span>
Channel failure acknowledge	Manual	<input type="checkbox"/> Pulse extension <span style="float: right;">---sec</span>
Inputs 0 - 15\Inputs\Channel parameters\Channel 1, 9\Channel 9\Chatter monitoring		
Chatter monitoring	No	<input type="checkbox"/> Number of signal changes <span style="float: right;">5</span>
Monitoring window	2sec	<input type="checkbox"/>
Inputs 0 - 15\Inputs\Channel parameters\Channel 2, 10		
Sensor evaluation	1oo2 evaluation, equivalent	<input type="checkbox"/> Discrepancy behavior <span style="float: right;">Supply value 0</span>
Discrepancy time	5ms	<input type="checkbox"/> Reintegration after discrepancy error <span style="float: right;">Test 0-Signal not necessary</span>
Inputs 0 - 15\Inputs\Channel parameters\Channel 2, 10\Channel 2\Input parameters		
Channel activated	Yes	<input type="checkbox"/> Input delay <span style="float: right;">3.2ms</span>
Channel failure acknowledge	Manual	<input type="checkbox"/> Pulse extension <span style="float: right;">---sec</span>
Inputs 0 - 15\Inputs\Channel parameters\Channel 2, 10\Channel 2\Chatter monitoring		
Chatter monitoring	No	<input type="checkbox"/> Number of signal changes <span style="float: right;">5</span>
Monitoring window	2sec	<input type="checkbox"/>
Inputs 0 - 15\Inputs\Channel parameters\Channel 2, 10\Channel 10\Input parameters		
Channel activated	Yes	<input type="checkbox"/> Input delay <span style="float: right;">3.2ms</span>
Channel failure acknowledge	Manual	<input type="checkbox"/> Pulse extension <span style="float: right;">---sec</span>

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<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 2, 10\Channel 10\Chatter monitoring</b>			
Chatter monitoring	No		Number of signal changes 5
Monitoring window	2sec		
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 3, 11</b>			
Sensor evaluation	1oo2 evaluation, equivalent		Discrepancy behavior Supply value 0
Discrepancy time	5ms		Reintegration after discrepancy error Test 0-Signal not necessary
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 3, 11\Channel 3\Input parameters</b>			
Channel activated	Yes		Input delay 3.2ms
Channel failure acknowledge	Manual		Pulse extension ---sec
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 3, 11\Channel 3\Chatter monitoring</b>			
Chatter monitoring	No		Number of signal changes 5
Monitoring window	2sec		
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 3, 11\Channel 11\Input parameters</b>			
Channel activated	Yes		Input delay 3.2ms
Channel failure acknowledge	Manual		Pulse extension ---sec
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 3, 11\Channel 11\Chatter monitoring</b>			
Chatter monitoring	No		Number of signal changes 5
Monitoring window	2sec		
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 4, 12</b>			
Sensor evaluation	1oo2 evaluation, equivalent		Discrepancy behavior Supply value 0
Discrepancy time	5ms		Reintegration after discrepancy error Test 0-Signal not necessary
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 4, 12\Channel 4\Input parameters</b>			
Channel activated	Yes		Input delay 3.2ms
Channel failure acknowledge	Manual		Pulse extension ---sec
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 4, 12\Channel 4\Chatter monitoring</b>			
Chatter monitoring	No		Number of signal changes 5
Monitoring window	2sec		
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 4, 12\Channel 12\Input parameters</b>			
Channel activated	Yes		Input delay 3.2ms
Channel failure acknowledge	Manual		Pulse extension ---sec
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 4, 12\Channel 12\Chatter monitoring</b>			
Chatter monitoring	No		Number of signal changes 5
Monitoring window	2sec		
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 5, 13</b>			
Sensor evaluation	1oo2 evaluation, equivalent		Discrepancy behavior Supply value 0
Discrepancy time	5ms		Reintegration after discrepancy error Test 0-Signal not necessary
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 5, 13\Channel 5\Input parameters</b>			
Channel activated	Yes		Input delay 3.2ms
Channel failure acknowledge	Manual		Pulse extension ---sec
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 5, 13\Channel 5\Chatter monitoring</b>			
Chatter monitoring	No		Number of signal changes 5

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Monitoring window	2sec		
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 5, 13\Channel 13\Input parameters</b>			
Channel activated	Yes		Input delay 3.2ms
Channel failure acknowledge	Manual		Pulse extension ---sec
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 5, 13\Channel 13\Chatter monitoring</b>			
Chatter monitoring	No		Number of signal changes 5
Monitoring window	2sec		
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 6, 14</b>			
Sensor evaluation	1oo2 evaluation, equivalent		Discrepancy behavior Supply value 0
Discrepancy time	5ms		Reintegration after discrepancy error Test 0-Signal not necessary
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 6, 14\Channel 6\Input parameters</b>			
Channel activated	Yes		Input delay 3.2ms
Channel failure acknowledge	Manual		Pulse extension ---sec
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 6, 14\Channel 6\Chatter monitoring</b>			
Chatter monitoring	No		Number of signal changes 5
Monitoring window	2sec		
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 6, 14\Channel 14\Input parameters</b>			
Channel activated	Yes		Input delay 3.2ms
Channel failure acknowledge	Manual		Pulse extension ---sec
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 6, 14\Channel 14\Chatter monitoring</b>			
Chatter monitoring	No		Number of signal changes 5
Monitoring window	2sec		
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 7, 15</b>			
Sensor evaluation	1oo2 evaluation, equivalent		Discrepancy behavior Supply value 0
Discrepancy time	5ms		Reintegration after discrepancy error Test 0-Signal not necessary
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 7, 15\Channel 7\Input parameters</b>			
Channel activated	Yes		Input delay 3.2ms
Channel failure acknowledge	Manual		Pulse extension ---sec
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 7, 15\Channel 7\Chatter monitoring</b>			
Chatter monitoring	No		Number of signal changes 5
Monitoring window	2sec		
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 7, 15\Channel 15\Input parameters</b>			
Channel activated	Yes		Input delay 3.2ms
Channel failure acknowledge	Manual		Pulse extension ---sec
<b>Inputs 0 - 15\Inputs\Channel parameters\Channel 7, 15\Channel 15\Chatter monitoring</b>			
Chatter monitoring	No		Number of signal changes 5
Monitoring window	2sec		
<b>Inputs 0 - 15\I/O addresses\Input addresses</b>			
Start address	0.0	End address	8.7
Organization block	33024	Process image	33024
<b>Inputs 0 - 15\I/O addresses\Output addresses</b>			
Start address	0.0	End address	4.7

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Organization block	33024	Process image	33024



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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Local modules

## F-DQ 8x24V DC/2A PPM\_1

F-DQ 8x24V DC/2A PPM_1			
General\Project information			
Name	F-DQ 8x24V DC/2A PPM_1	Author	PLC Training
Comment		Rack	0
Slot	3		
General\Catalog information			
Short designation	F-DQ 8x24V DC/2A PPM	Description	Digital output module DQ 8x24VDC/2A PPM, PROFIsafe V2, fail-safe
Article number	6ES7 526-2BF00-0AB0	Firmware version	V1.0
General\Identification & Maintenance			
Plant designation		Location identifier	
Installation date	2023-02-16 08:56:43.377	Additional information	
Module parameters\General\Startup			
Comparison preset to actual module	From CPU		
Outputs 0 - 7\General			
Name	F-DQ 8x24V DC/2A PPM_1	Comment	
Outputs 0 - 7\F-parameters			
Manual assignment of F-monitoring time	False	<input type="checkbox"/> F-monitoring time	150ms <input type="checkbox"/>
F-source address	1	<input type="checkbox"/> F-destination address	65533 <input type="checkbox"/>
F-parameter signature (with addresses)	19032	<input type="checkbox"/> F-parameter signature (without addresses)	4277 <input type="checkbox"/>
Behavior after channel fault	Passivate channel	<input type="checkbox"/> Reintegration after channel fault	All channels manually <input type="checkbox"/>
RIOforFA safety	Yes	<input type="checkbox"/> PROFIsafe mode	V2 mode <input type="checkbox"/>
PROFIsafe protocol version	Expanded protocol (XP)	<input type="checkbox"/> F-I/O DB manual number assignment	Automatic <input type="checkbox"/>
F-I/O DB-number	30003	<input type="checkbox"/> F-I/O DB-name	F00009_F-DQ8x24VDC/2APPM_1 <input type="checkbox"/>
Outputs 0 - 7\Outputs\Operating mode			
Maximum test period	1000sec	<input type="checkbox"/> Operating mode of the output	PM-switching mode <input type="checkbox"/>
Outputs 0 - 7\Outputs\Channel 0\Diagnostics			
Wire break	No	<input type="checkbox"/>	
Outputs 0 - 7\Outputs\Channel 0\Output parameters			
Channel activated	Yes	<input type="checkbox"/> Channel failure acknowledgement	Manual <input type="checkbox"/>
Outputs 0 - 7\Outputs\Channel 0\Monitoring parameters			
Max. readback time dark test	1.0ms	<input type="checkbox"/> Disable dark test for 48 hours	No <input type="checkbox"/>
Max. readback time switch on test	0.8ms	<input type="checkbox"/> Activated light test	No <input type="checkbox"/>
Outputs 0 - 7\Outputs\Channel 1\Diagnostics			
Wire break	No	<input type="checkbox"/>	
Outputs 0 - 7\Outputs\Channel 1\Output parameters			
Channel activated	Yes	<input type="checkbox"/> Channel failure acknowledgement	Manual <input type="checkbox"/>
Outputs 0 - 7\Outputs\Channel 1\Monitoring parameters			
Max. readback time dark test	1.0ms	<input type="checkbox"/> Disable dark test for 48 hours	No <input type="checkbox"/>

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Max. readback time switch on test	0.8ms	<input type="checkbox"/>	Activated light test No <input type="checkbox"/>
Outputs 0 - 7\Outputs\Channel 2\Diagnostics			
Wire break	No	<input type="checkbox"/>	
Outputs 0 - 7\Outputs\Channel 2\Output parameters			
Channel activated	Yes	<input type="checkbox"/>	Channel failure acknowledgement Manual <input type="checkbox"/>
Outputs 0 - 7\Outputs\Channel 2\Monitoring parameters			
Max. readback time dark test	1.0ms	<input type="checkbox"/>	Disable dark test for 48 hours No <input type="checkbox"/>
Max. readback time switch on test	0.8ms	<input type="checkbox"/>	Activated light test No <input type="checkbox"/>
Outputs 0 - 7\Outputs\Channel 3\Diagnostics			
Wire break	No	<input type="checkbox"/>	
Outputs 0 - 7\Outputs\Channel 3\Output parameters			
Channel activated	Yes	<input type="checkbox"/>	Channel failure acknowledgement Manual <input type="checkbox"/>
Outputs 0 - 7\Outputs\Channel 3\Monitoring parameters			
Max. readback time dark test	1.0ms	<input type="checkbox"/>	Disable dark test for 48 hours No <input type="checkbox"/>
Max. readback time switch on test	0.8ms	<input type="checkbox"/>	Activated light test No <input type="checkbox"/>
Outputs 0 - 7\Outputs\Channel 4\Diagnostics			
Wire break	No	<input type="checkbox"/>	
Outputs 0 - 7\Outputs\Channel 4\Output parameters			
Channel activated	Yes	<input type="checkbox"/>	Channel failure acknowledgement Manual <input type="checkbox"/>
Outputs 0 - 7\Outputs\Channel 4\Monitoring parameters			
Max. readback time dark test	1.0ms	<input type="checkbox"/>	Disable dark test for 48 hours No <input type="checkbox"/>
Max. readback time switch on test	0.8ms	<input type="checkbox"/>	Activated light test No <input type="checkbox"/>
Outputs 0 - 7\Outputs\Channel 5\Diagnostics			
Wire break	No	<input type="checkbox"/>	
Outputs 0 - 7\Outputs\Channel 5\Output parameters			
Channel activated	Yes	<input type="checkbox"/>	Channel failure acknowledgement Manual <input type="checkbox"/>
Outputs 0 - 7\Outputs\Channel 5\Monitoring parameters			
Max. readback time dark test	1.0ms	<input type="checkbox"/>	Disable dark test for 48 hours No <input type="checkbox"/>
Max. readback time switch on test	0.8ms	<input type="checkbox"/>	Activated light test No <input type="checkbox"/>
Outputs 0 - 7\Outputs\Channel 6\Diagnostics			
Wire break	No	<input type="checkbox"/>	
Outputs 0 - 7\Outputs\Channel 6\Output parameters			
Channel activated	Yes	<input type="checkbox"/>	Channel failure acknowledgement Manual <input type="checkbox"/>
Outputs 0 - 7\Outputs\Channel 6\Monitoring parameters			
Max. readback time dark test	1.0ms	<input type="checkbox"/>	Disable dark test for 48 hours No <input type="checkbox"/>
Max. readback time switch on test	0.8ms	<input type="checkbox"/>	Activated light test No <input type="checkbox"/>
Outputs 0 - 7\Outputs\Channel 7\Diagnostics			
Wire break	No	<input type="checkbox"/>	
Outputs 0 - 7\Outputs\Channel 7\Output parameters			
Channel activated	Yes	<input type="checkbox"/>	Channel failure acknowledgement Manual <input type="checkbox"/>

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<b>Outputs 0 - 7\Outputs\Channel 7\Monitoring parameters</b>		
Max. readback time dark test	1.0ms	<input type="checkbox"/> Disable dark test for 48 hours
Max. readback time switch on test	0.8ms	<input type="checkbox"/> Activated light test
<b>Outputs 0 - 7\I/O addresses\Input addresses</b>		
Start address	9.0	End address
Organization block	33024	Process image
		14.7
		33024
<b>Outputs 0 - 7\I/O addresses\Output addresses</b>		
Start address	9.0	End address
Organization block	33024	Process image
		14.7
		33024

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## Safety PLC example / PLC\_1 [CPU 1515TF-2 PN] / Local modules

## DI 16x24VDC BA\_1

## DI 16x24VDC BA\_1

## General\Project information

Name	DI 16x24VDC BA_1	Author	PLC Training
Comment		Rack	0
Slot	4		

## General\Catalog information

Short designation	DI 16x24VDC BA	Description	Digital input module DI16 x 24VDC; grouping 16; input delay 3.2ms; input type 3 (IEC 61131)
Article number	6ES7 521-1BH10-0AA0	Firmware version	V1.1

## General\Identification &amp; Maintenance

Plant designation		Location identifier	
Installation date	2023-02-16 09:35:21.656	Additional information	

## Module parameters\General\Startup

Comparison preset to actual module	From CPU		
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## Module parameters\DI Configuration\Configuration of submodules

Module distribution	None		
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## Module parameters\DI Configuration\Value status (Quality Information)

Value status	False		
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## Module parameters\DI Configuration\Copy of module for Shared Device (MSI)

Copy of module:	None		
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## Input 0 - 15\General

Name	DI 16x24VDC BA_1	Comment	
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## Input 0 - 15\Inputs\General\Module failure

Input values with module failure	Input value 0		
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## Input 0 - 15\I/O addresses\Input addresses

Start address	15.0	End address	16.7
Organization block	0	Process image	0

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## Safety PLC example

### Ungrouped devices

This folder is empty.

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## Safety PLC example

### Security settings

This folder is empty.

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## Safety PLC example / Cross-device functions / Project traces

### Measurements

This folder is empty.

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## Safety PLC example / Common data

### Alarm classes





Alarm classes	
Name	Acknowledgement
Display name	A
Acknowledgment	True
Priority	0
Name	No Acknowledgement
Display name	NA
Acknowledgment	False
Priority	0



### Safety PLC example / Common data / Logs

#### F-change history PLC\_1 2023-02-12 15:00:10

##### F-change history PLC\_1 2023-02-12 15:00:10

!	Message	Date	Time	User
	F-activation for the CPU PLC_1 was disabled	2/12/2023	3:00:10 PM	DESKTOP-O4DT62G \PLC Traning
	F-activation for the CPU PLC_1 was disabled	2/12/2023	3:00:10 PM	DESKTOP-O4DT62G \PLC Traning
	F-activation for the CPU PLC_1 was enabled	2/12/2023	3:00:12 PM	DESKTOP-O4DT62G \PLC Traning
	F-activation for the CPU PLC_1 was enabled	2/12/2023	3:00:12 PM	DESKTOP-O4DT62G \PLC Traning

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## Safety PLC example / Languages & resources

### Project languages

#### Languages

##### Reference language

English (United States)

##### Editing language

English (United States)

##### Other project languages

Empty

## Safety PLC example / Languages &amp; resources / Project texts

## Project texts

Project texts	
English (United States)	
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\FGESTOP1 [FB32774]\Block comment
English (United States)	"Main Program Sweep (Cycle)"
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\Main [OB1]\Block title
English (United States)	1=Acknowledgment for reintegration
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\ACK_REI
English (United States)	1=Acknowledgment for reintegration
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\ACK_REI
English (United States)	1=Acknowledgment for reintegration required
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\ACK_NEC
English (United States)	1=Acknowledgment for reintegration required
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\ACK_NEC
English (United States)	1=Acknowledgment requirement for reintegration
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\ACK_REQ
English (United States)	1=Acknowledgment requirement for reintegration
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\ACK_REQ
English (United States)	1=Disables F-I/O
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\DISABLE
English (United States)	1=Disables F-I/O
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\DISABLE
English (United States)	1=Enable passivation
Category	Block comment
Reference	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\PASS_ON
English (United States)	1=Enable passivation

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<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_1_2_1_0_1_23 [FB32769]\PASS_ON	
<b>English (United States)</b>	1=Fail-safe values are output	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\QBAD	
<b>English (United States)</b>	1=Fail-safe values are output	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_1_2_1_0_1_23 [FB32769]\QBAD	
<b>English (United States)</b>	1=F-I/O disabled	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\DISABLED	
<b>English (United States)</b>	1=F-I/O disabled	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_1_2_1_0_1_23 [FB32769]\DISABLED	
<b>English (United States)</b>	A	
<b>Category</b>	Alarm class text	
<b>Reference</b>	Safety PLC example\Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName	
<b>English (United States)</b>	A	
<b>Category</b>	Alarm class text	
<b>Reference</b>	Safety PLC example\Acknowledgement\ShortName	
<b>English (United States)</b>	F_: Calculation of Elapsed Time	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\Compiler blocks\F_ET_LI [FB32778]\Block title	
<b>English (United States)</b>	F_: Channel Driver Block 8 BOOL Input not channel granular	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\Compiler blocks\F_8BOOL_INPUT_NC [FB32773]\Block title	
<b>English (United States)</b>	F_: Channel Driver Block 8 BOOL Output not channel granular	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\Compiler blocks\F_8BOOL_OUTPUT_NC [FB32772]\Block title	
<b>English (United States)</b>	F_: Cycle Control and Mode	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\Compiler blocks\F_CTRL_1 [FB32767]\Block title	
<b>English (United States)</b>	F_: cyclic calculation of D-signature	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\Compiler blocks\F_CTRL_D [FB32776]\Block title	
<b>English (United States)</b>	F_: Emergency STOP up to stop category 1	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\F_ESTOP1 [FB215]\Block title	
<b>English (United States)</b>	F_: F_SYSINFO	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\PLC data types\System data types\F_SYSINFO\Title of the PLC data type	
<b>English (United States)</b>	F_: Jmp label / Loop - global correction implementation	

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<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_JL_CORR [FC32768]\Block title	
<b>English (United States)</b>	F_: Measurement of current and longest runtime	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_RT [FB32779]\Block title	
<b>English (United States)</b>	F_: Module Driver Block Receive PROFIsafe V2 + Protocolextension up to 13 Bytes	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_SEEDPASS_RCV [FB32770]\Block title	
<b>English (United States)</b>	F_: Module Driver Block Send PROFIsafe V2 + Protocolextension up to 13 Bytes	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_SEEDPASS_SEND [FB32771]\Block title	
<b>English (United States)</b>	F_: Test Block and Programme Run Control	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_CTRL_2 [FB32777]\Block title	
<b>English (United States)</b>	NA	
<b>Category</b>	Alarm class text	
<b>Reference</b>	Safety PLC example\No Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName	
<b>English (United States)</b>	NA	
<b>Category</b>	Alarm class text	
<b>Reference</b>	Safety PLC example\No Acknowledgement\ShortName	
<b>English (United States)</b>	Non-fail-safe service information	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\DIAG	
<b>English (United States)</b>	Non-fail-safe service information	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\DIAG	
<b>English (United States)</b>	Passivation output	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\PASS_OUT	
<b>English (United States)</b>	Passivation output	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_0_1_2_1_0_1_23 [FB32769]\PASS_OUT	
<b>English (United States)</b>	Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\IPAR_OK	
<b>English (United States)</b>	Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks\STEP 7 Safety\Compiler blocks\F_PS_IN_2_0_0_0_0_0_2_1_0_1_23 [FB32768]\IPAR_EN	

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<b>English (United States)</b>	Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_1_2_1_0_1_23 [FB32769]\IPAR_OK	
<b>English (United States)</b>	Tag for parameter reassignment of fail-safe DP standard slaves/IO standard devices or for enabling HART communication	
<b>Category</b>	Block comment	
<b>Reference</b>	Safety PLC example\PLC_1 [CPU 1515TF-2 PN]\Program blocks\System blocks \STEP 7 Safety\Compiler blocks\F_PS_OUT_1_0_0_0_0_1_2_1_0_1_23 [FB32769]\IPAR_EN	