

Instrumentation Tools

Totally Integrated Automation Portal		
--------------------------------------	--	--

GSD files Project

Project							
Name:	GSD files Project	Creation time:	1/4/2024 9:44:22 AM	Last change	1/10/2024 10:45:36 AM	Author:	MahmoudSalama
Last modified by:	Mmuhamed	Version:					
Comment:							

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	11.3636.19041.0
Computer name	MMUHAMED-D1
User name	GULSANEGYPT\mmuhamed
Installation path of the TIA Portal	C:\Program Files\Siemens\Automation\Portal V16

Components		
Name	Version	Release
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 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
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 - TIACOMPCKECHK 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

Instrumentation Tools

Totally Integrated Automation Portal		
Name		
Siemens Totally Integrated Automation Portal V16 - WinCC Single Setup-Package 32 Bit V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
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 Software Updater	02.05.0300	V02.05.03.00_01.01.00.29
SIMATIC HMIProvider	7.0	K07.00.03.01_01.01.00.01
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 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
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
Products		
Name		
TIA Portal Project Server	V16.0	V16.00.00.00_31.02.00.01
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
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
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
S7-PCT	V3.5 + SP1	K3.5.1.0_1.19.0.1

GSD files Project

PLC_1 [CPU 1516-3 PN/DP]

PLC_1

General\Project information

Name	PLC_1	Author	Mmuhamed	Comment	
Rack	0	Slot	1		

General\Catalog information

Short designation	CPU 1516-3 PN/DP	Description	CPU with display; work memory 1 MB code and 5 MB data; 10 ns bit operation time; 4-stage protection concept, technology functions: 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; 3rd interface: PROFIBUS DP Master, S7 communication, isochronous mode, S7 routing; firmware V2.8	Article number	6ES7 516-3AN02-0AB0
Firmware version	V2.8				

General\Identification & Maintenance

Plant designation		Location identifier		Installation date	2024-01-10 08:49:27.130
Additional information					

General\Checksums

Text lists	FA 70 E8 75 1D 5A 8E 29	Software	Not available (compile necessary)		
------------	-------------------------	----------	-----------------------------------	--	--

Connection resources\

	Station resources - Reserved - Maximum	Station resources - Reserved - Configured	Station resources - Dynamic - Configured	Module resources - PLC_1 [CPU 1516-3 PN/DP] - Configured
Maximum number of resources:	10	10	118	128
	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	0
Available resources:	10	10	118	128

Overview of addresses\Overview of addresses\Overview of addresses

Inputs	True	Outputs	True	Address gaps	False
Slot	True				

Type	Addr. from	Addr. to	Module	PIP	OB	Device name	Device number	Size	Master / IO system	Rack	Slot
I	0	3	2AI-T [2AI]_1	Automatic update	-	CPX [CPX Rev 20]	1	4 Bytes	PROFINET IO-System [100]	0	2
O	0	0	8DO [8DO]_1	Automatic update	-	CPX [CPX Rev 20]	1	1 Bytes	PROFINET IO-System [100]	0	3

GSD files Project / PLC_1 [CPU 1516-3 PN/DP]

Software units

This folder is empty.

GSD files Project / PLC_1 [CPU 1516-3 PN/DP] / Program blocks

Main [OB1]

Main Properties

General

Name	Main	Number	1	Type	OB	Language	LAD
-------------	------	---------------	---	-------------	----	-----------------	-----

Numbering	Automatic
------------------	-----------

Information

Title	"Main Program Sweep (Cycle)"	Author		Comment		Family	
--------------	------------------------------	---------------	--	----------------	--	---------------	--

Version	0.1	User-defined ID	
----------------	-----	------------------------	--

Name	Data type	Default value
▼ Input		
Initial_Call	Bool	
Remanence	Bool	
Temp		
Constant		

GSD files Project / PLC_1 [CPU 1516-3 PN/DP]

Technology objects

This folder is empty.

GSD files Project / PLC_1 [CPU 1516-3 PN/DP]

PLC tags

PLC tags			
Icon	Name	Data type	Address

GSD files Project / PLC_1 [CPU 1516-3 PN/DP] / PLC tags

Default tag table [59]

PLC tags

Icon	Name	Data type	Address
------	------	-----------	---------

GSD files Project / PLC_1 [CPU 1516-3 PN/DP]

PLC data types

This folder is empty.

GSD files Project / PLC_1 [CPU 1516-3 PN/DP] / Watch and force tables

Force table

Name	Address	Display format	Force value
------	---------	----------------	-------------

GSD files Project / PLC_1 [CPU 1516-3 PN/DP]

Traces

Name

GSD files Project / PLC_1 [CPU 1516-3 PN/DP] / Traces

Measurements

This folder is empty.

GSD files Project / PLC_1 [CPU 1516-3 PN/DP] / Traces

Combined measurements

Name

GSD files Project / PLC_1 [CPU 1516-3 PN/DP] / OPC UA communication

Server interfaces

This folder is empty.

GSD files Project / PLC_1 [CPU 1516-3 PN/DP] / OPC UA communication

Client interfaces

This folder is empty.

GSD files Project / PLC_1 [CPU 1516-3 PN/DP] / PLC supervisions & alarms

Supervisions

This folder is empty.

GSD files Project / PLC_1 [CPU 1516-3 PN/DP] / PLC supervisions & alarms

PLC alarms

PLC alarms					
Name	Type	ID	Alarm text	Info text	Information only

GSD files Project / PLC_1 [CPU 1516-3 PN/DP] / PLC supervisions & alarms

System alarms

System alarms					
Name	Type	ID	Alarm text	Info text	Information only

GSD files Project / PLC_1 [CPU 1516-3 PN/DP]

PLC alarm text lists

This folder is empty.

Instrumentation Tools

Totally Integrated Automation Portal												
GSD files Project / PLC_1 [CPU 1516-3 PN/DP] / Local modules												
PLC_1 [CPU 1516-3 PN/DP]												
PLC_1												
General\Project information												
Name	PLC_1			Author	Mmuhamed			Comment				
Rack	0			Slot	1							
General\Catalog information												
Short designation	CPU 1516-3 PN/DP			Description	CPU with display; work memory 1 MB code and 5 MB data; 10 ns bit operation time; 4-stage protection concept, technology functions: 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; 3rd interface: PROFIBUS DP Master, S7 communication, isochronous mode, S7 routing; firmware V2.8			Article number	6ES7 516-3AN02-0AB0			
Firmware version	V2.8											
General\Identification & Maintenance												
Plant designation				Location identifier				Installation date	2024-01-10 08:49:27.130			
Additional information												
General\Checksums												
Text lists	FA 70 E8 75 1D 5A 8E 29			Software	Not available (compile necessary)							
Connection resources\												
	Station resources - Reserved - Maximum			Station resources - Reserved - Configured			Station resources - Dynamic - Configured			Module resources - PLC_1 [CPU 1516-3 PN/DP] - Configured		
Maximum number of resources:				10			118			128		
	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			118			128		
Overview of addresses\Overview of addresses\Overview of addresses												
Inputs	True			Outputs	True			Address gaps	False			
Slot	True											
Type	Addr. from	Addr. to	Module	PIP	OB	Device name	Device number	Size	Master / IO system	Rack	Slot	
I	0	3	2AI-T [2AI]_1	Automatic update	-	CPX [CPX Rev 20]	1	4 Bytes	PROFINET IO-System [100]	0	2	
O	0	0	8DO [8DO]_1	Automatic update	-	CPX [CPX Rev 20]	1	1 Bytes	PROFINET IO-System [100]	0	3	

GSD files Project / PLC_1 [CPU 1516-3 PN/DP] / Distributed I/O

PROFINET IO-System (100): PN/IE_1

PROFINET IO-System

General

IO controller:	PLC_1	Name:	PROFINET IO-System	Number:	100
Multiple use IO system	False	Use name as extension for the PROFINET device name.	False		

Hardware identifier

Hardware identifier	257
---------------------	-----

Overview of addresses\Overview of addresses\Overview of addresses

Inputs	True	Outputs	True	Address gaps	False
Slot	True				

Type	Addr. from	Addr. to	Module	PIP	OB	Device name	Device number	Size	Master / IO system	Rack	Slot
I	0	3	2AI-T [2AI]_1	Automatic update	-	CPX [CPX Rev 20]	1	4 Bytes	PROFINET IO-System [100]	0	2
O	0	0	8DO [8DO]_1	Automatic update	-	CPX [CPX Rev 20]	1	1 Bytes	PROFINET IO-System [100]	0	3

**GSD files Project / PLC_1 [CPU 1516-3 PN/DP] / Distributed I/O / PROFINET IO-System (100): PN/IE_1
CPX [CPX Rev 20]**

CPX					
General					
Name	CPX	Author	Mmuhamed	Comment	
Rack	0	Slot	0		
General\Catalog information					
Short designation	CPX Rev 20	Description	PROFINET I/O terminal; copper; IRT; MRP; shared device; Revision 20 up to Revision 24	Article number	TN 197330
Firmware version		HwVersion		GSD file	gsdml-v2.34-festo-cpx-20230831.xml
PROFINET interface [X1]\General					
Name	PN-IO Interface	Comment			
PROFINET interface [X1]\Port 1 [X1 P1]\General					
PositionNumber	1	Name	Port 1	Comment	
PROFINET interface [X1]\Port 2 [X1 P2]\General					
PositionNumber	2	Name	Port 2	Comment	

GSD files Project / Ungrouped devices

CPX [CPX Rev 20]

CPX					
General					
Name	CPX	Author	Mmuhamed	Comment	
Rack	0	Slot	0		
General\Catalog information					
Short designation	CPX Rev 20	Description	PROFINET I/O terminal; copper; IRT; MRP; shared device; Revision 20 up to Revision 24	Article number	TN 197330
Firmware version		HwVersion		GSD file	gsdml-v2.34-festo-cpx-20230831.xml
PROFINET interface [X1]\General					
Name	PN-IO Interface	Comment			
PROFINET interface [X1]\Port 1 [X1 P1]\General					
PositionNumber	1	Name	Port 1	Comment	
PROFINET interface [X1]\Port 2 [X1 P2]\General					
PositionNumber	2	Name	Port 2	Comment	

GSD files Project / Ungrouped devices / CPX [CPX Rev 20]

CPX [CPX Rev 20]

CPX					
General					
Name	CPX	Author	Mmuhamed	Comment	
Rack	0	Slot	0		
General\Catalog information					
Short designation	CPX Rev 20	Description	PROFINET I/O terminal; copper; IRT; MRP; shared device; Revision 20 up to Revision 24	Article number	TN 197330
Firmware version		HwVersion		GSD file	gsdml-v2.34-festo-cpx-20230831.xml
PROFINET interface [X1]\General					
Name	PN-IO Interface	Comment			
PROFINET interface [X1]\Port 1 [X1 P1]\General					
PositionNumber	1	Name	Port 1	Comment	
PROFINET interface [X1]\Port 2 [X1 P2]\General					
PositionNumber	2	Name	Port 2	Comment	

GSD files Project / Ungrouped devices / CPX [CPX Rev 20]

2AI-T [2AI]_1

2AI-T [2AI]_1

General

Name	2AI-T [2AI]_1	Author	Mmuhamed	Comment	
Rack	0	Slot	2		

General/Catalog information

Short designation	2AI-T [2AI]	Description	Analogue input module with 2 channels for temperature resistors, DIL-switches on 2 channels, PT100...PT1000 standard and climatic, NI100...1000	Article number	
Firmware version		HwVersion		GSD file	gsdml-v2.34-festo-cpx-20230831.xml

GSD files Project / Ungrouped devices / CPX [CPX Rev 20]

8DO [8DO]_1

8DO [8DO]_1

General

Name	8DO [8DO]_1	Author	Mmuhamed	Comment	
Rack	0	Slot	3		

General/Catalog information

Short designation	8DO [8DO]	Description	Digital output module with 8 channels, 24VDC, 0.5A, PNP	Article number	
Firmware version		HwVersion		GSD file	gsdml-v2.34-festo-cpx-20230831.xml

GSD files Project / Ungrouped devices / CPX [CPX Rev 20]

FB33 PNIO Module_1

FB33 PNIO Module_1

General

Name	FB33 PNIO Module_1	Author	Mmuhamed	Comment	
Rack	0	Slot	4		

General/Catalog information

Short designation	FB33 PNIO Module	Description	PROFINET I/O Module	Article number	TN 548755, CPX-FB33
Firmware version		HwVersion		GSD file	gsdml-v2.34-festo-cpx-20230831.xml

GSD files Project

Security settings

This folder is empty.

GSD files Project / Cross-device functions / Project traces

Measurements

This folder is empty.

GSD files Project / Common data

Alarm classes

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

GSD files Project / Common data

Logs

This folder is empty.

GSD files Project / Languages & resources

Project languages

Languages

Reference language

English (United States)

Editing language

English (United States)

Other project languages

Empty

GSD files Project / Languages & resources / Project texts

Project texts

Project texts		
English (United States)	Category	Reference
"Main Program Sweep (Cycle)"	Block comment	GSD files Project\PLC_1 [CPU 1516-3 PN/DP]\Program blocks\Main [OB1]\Block title
A	Alarm class text	GSD files Project\Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName
A	Alarm class text	GSD files Project\Acknowledgement\ShortName
NA	Alarm class text	GSD files Project\No Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName
NA	Alarm class text	GSD files Project\No Acknowledgement\ShortName