

# Instrumentation Tools

Totally Integrated Automation Portal							
<b>I-device feature sample project</b>							
<b>Project</b>							
<b>Name:</b>	I-device feature sample project	<b>Creation time:</b>	12/12/2023 10:07:26 AM	<b>Last change</b>	12/12/2023 1:56:44 PM	<b>Author:</b> MahmoudSalama	
<b>Last modified by:</b>	Mmuhamed	<b>Version:</b>					
<b>Comment:</b>							
<b>Operating system</b>							
<b>Name</b>			<b>Description</b>				
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				
<b>Components</b>							
<b>Name</b>	<b>Version</b>			<b>Release</b>			
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 - TIACOMPCHCK 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			

# Instrumentation Tools

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

Name	Version	Release
Siemens Totally Integrated Automation Portal V16 - Simatic Single Setup-Package 32 Bit V16.0 (TIAP16)	V16.0	V16.00.00.00_31.02.00.01
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	Version	Release
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

# Instrumentation Tools

Totally Integrated Automation Portal											
<h2 style="margin: 0;">I-device feature sample project</h2> <h3 style="margin: 0;">Controller [CPU 1516-3 PN/DP]</h3>											
<b>Controller</b>											
<b>General\Project information</b>											
<b>Name</b>	Controller	<b>Author</b>	Mmuhamed	<b>Comment</b>							
<b>Rack</b>	0	<b>Slot</b>	1								
<b>General\Catalog information</b>											
<b>Short designation</b>	CPU 1516-3 PN/DP	<b>Description</b>	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	<b>Article number</b>	6ES7 516-3AN02-0AB0						
<b>Firmware version</b>	V2.8										
<b>General\Identification &amp; Maintenance</b>											
<b>Plant designation</b>		<b>Location identifier</b>		<b>Installation date</b>	2023-12-12 11:16:27.065						
<b>Additional information</b>											
<b>General\Checksums</b>											
<b>Text lists</b>	FA 70 E8 75 1D 5A 8E 29	<b>Software</b>	31 84 93 E9 6F F1 39 91								
<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 - Controller [CPU 1516-3 PN/DP] - Configured</b>							
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							
<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										
<b>Type</b>	<b>Addr. from</b>	<b>Addr. to</b>	<b>Module</b>	<b>PIP</b>	<b>OB</b>	<b>Device name</b>	<b>Device number</b>	<b>Size</b>	<b>Master / IO system</b>	<b>Rack</b>	<b>Slot</b>
I	0	0	From I-device to controller	Automatic update	-	I-device [CPU 1214C AC/DC/Rly]	1	1 Bytes	PROFINET IO-System [100]	0	1 X1
O	0	0	From controller to I-device	Automatic update	-	I-device [CPU 1214C AC/DC/Rly]	1	1 Bytes	PROFINET IO-System [100]	0	1 X1

I-device feature sample project / Controller [CPU 1516-3 PN/DP]

**Software units**

This folder is empty.

## I-device feature sample project / Controller [CPU 1516-3 PN/DP] / 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
▼ Input		
Initial_Call	Bool	
Remanence	Bool	
Temp		
Constant		



I-device feature sample project / Controller [CPU 1516-3 PN/DP]

**Technology objects**

This folder is empty.



## I-device feature sample project / Controller [CPU 1516-3 PN/DP]

### PLC tags

PLC tags			
Icon	Name	Data type	Address
	Tag_1	Byte	%QB0
	Tag_2	Byte	%IB0

## I-device feature sample project / Controller [CPU 1516-3 PN/DP] / PLC tags

### Default tag table [56]

PLC tags			
Icon	Name	Data type	Address
	Tag_1	Byte	%QB0
	Tag_2	Byte	%IB0



## I-device feature sample project / Controller [CPU 1516-3 PN/DP]

### PLC data types

This folder is empty.

I-device feature sample project / Controller [CPU 1516-3 PN/DP] / Watch and force tables

## Force table

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

## I-device feature sample project / Controller [CPU 1516-3 PN/DP] / Watch and force tables

### Watch table\_1

Name	Address	Display format	Modify value
"Tag_1"	%QBO	Hex	
"Tag_2"	%IBO	Hex	

## I-device feature sample project / Controller [CPU 1516-3 PN/DP]

### Traces

Name

## I-device feature sample project / Controller [CPU 1516-3 PN/DP] / Traces

### Measurements

This folder is empty.

I-device feature sample project / Controller [CPU 1516-3 PN/DP] / Traces

Combined measurements

Name

I-device feature sample project / Controller [CPU 1516-3 PN/DP] / OPC UA communication

## Server interfaces

This folder is empty.

I-device feature sample project / Controller [CPU 1516-3 PN/DP] / OPC UA communication

## Client interfaces

This folder is empty.



I-device feature sample project / Controller [CPU 1516-3 PN/DP] / PLC supervisions & alarms

## Supervisions

This folder is empty.

## I-device feature sample project / Controller [CPU 1516-3 PN/DP] / PLC supervisions & alarms

### PLC alarms




























PLC alarms					
Name	Type	ID	Alarm text	Info text	Information only

# Instrumentation Tools


























Totally Integrated Automation Portal

## I-device feature sample project / Controller [CPU 1516-3 PN/DP] / PLC supervisions & alarms

### System alarms

System alarms					
Name	Type	ID	Alarm text	Info text	Information only
 SDIAG_AL-CAT_SUBMO-DUL_MSG_0002	PLC alarm	1	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_MOD-UL_MSG_0003	PLC alarm	2	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_RACK_MSG_0004	PLC alarm	3	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_DE-VICE_MSG_0005	PLC alarm	4	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_IOSYS-TEM_MSG_0006	PLC alarm	5	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#276K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CPU_OST_MSG_000D	PLC alarm	6	CPU status message: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CPU_IN-FO_MSG_000F	PLC alarm	7	CPU info: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CPU_ERR_M SG_0010	PLC alarm	8	CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CPU_MD_M SG_0011	PLC alarm	9	CPU maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CPU_MR_M SG1_0012	PLC alarm	10	CPU maintenance required: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CPU_TMPER R_MSG_0013	PLC alarm	11	Temporary CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CH_ERR_MS G_0015	PLC alarm	12	Error: @1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_ECH_ERR_M SG_0016	PLC alarm	13	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@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CH_MD_MS G_0018	PLC alarm	14	Maintenance demanded:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_ECH_MD_M SG_0019	PLC alarm	15	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@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CH_MR_MS G_001B	PLC alarm	16	Maintenance required:@1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_ECH_MR_M SG_001C	PLC alarm	17	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@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_SUB_ERR_M SG_001E	PLC alarm	18	Error: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_ESUB_ERR_M SG_001F	PLC alarm	19	Error: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_SUB_MD_M SG_0021	PLC alarm	20	Maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_ESUB_MD_M SG_0022	PLC alarm	21	Maintenance demanded: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_SUB_MR_M SG_0024	PLC alarm	22	Maintenance required: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_ESUB_MR_M SG_0025	PLC alarm	23	Maintenance required: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CONFIG_IN-FO_0028	PLC alarm	24	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_CONFIG_RE-PORT_0029	PLC alarm	25	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_SE-CU_EV_MSG_005E	PLC alarm	26	Security event: @1W%t#7W@ @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True
 SDIAG_AL-CAT_SE-CU_EV_IN-FO_005F	PLC alarm	27	Security information: @1W%t#7W@ @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True

# Instrumentation Tools

Totally Integrated Automation Portal						
Name	Type	ID	Alarm text	Info text	Information only	
 SDIAG_AL-CAT_USER_MSG_0080	PLC alarm	28	User message: @1W%t#2W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True	
 SDIAG_AL-CAT_PLC_MSG_0OFF	PLC alarm	29	PLC notification: @1W%t#7W@ @5W%t#7W@ @6W%t#256K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	True	
 SDIAG_AL-CAT_SUBMO-DUL_MSG_0102	PLC alarm	30	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_MOD-UL_MSG_0103	PLC alarm	31	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_RACK_MSG_0104	PLC alarm	32	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_DE-VICE_MSG_0105	PLC alarm	33	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_IOSYS-TEM_MSG_0106	PLC alarm	34	Error: @1W%t#7W@ @5W%t#7W@ @6W%t#276K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_CPU_OST_MSG_010D	PLC alarm	35	CPU status message: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_CPU_ERR_M SG_0110	PLC alarm	36	CPU error: @1W%t#7W@ @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_CPU_MD_M SG_0111	PLC alarm	37	CPU maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_CPU_MR_M SG1_0112	PLC alarm	38	CPU maintenance required: @1W%t#7W@ @6W%t#257K@ / @5W%t#7W@ @6W%t#258K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_CH_ERR_M SG_0115	PLC alarm	39	Error: @1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_ECH_ERR_M SG_0116	PLC alarm	40	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@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_CH_MD_M SG_0118	PLC alarm	41	Maintenance demanded: @1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_ECH_MD_M SG_0119	PLC alarm	42	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@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_CH_MR_M SG_011B	PLC alarm	43	Maintenance required: @1W%t#7W@ on @8W%t#280K@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_ECH_MR_M SG_011C	PLC alarm	44	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@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_SUB_ERR_M SG_011E	PLC alarm	45	Error: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_ESUB_ERR_M SG_011F	PLC alarm	46	Error: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_SUB_MD_M SG_0121	PLC alarm	47	Maintenance demanded: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_ESUB_MD_M SG_0122	PLC alarm	48	Maintenance demanded: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_SUB_MR_M SG_0124	PLC alarm	49	Maintenance required: @1W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_ESUB_MR_M SG_0125	PLC alarm	50	Maintenance required: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ / @6W%t#258K@.@6W%t#259K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_CONFIG_IN-FO_0128	PLC alarm	51	Info: @1W%t#7W@ - @5W%t#7W@ @6W%t#257K@ @6W%t#262K@ @6W%t#263K@ @8W%t#7W@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	
 SDIAG_AL-CAT_PLC_MSG_01FF	PLC alarm	52	PLC notification: @1W%t#7W@ @5W%t#7W@ @6W%t#256K@ @6W%t#262K@ @6W%t#263K@	Short name: @6W%t#260K@ Order number: @6W%t#265K@	False	

I-device feature sample project / Controller [CPU 1516-3 PN/DP]

**PLC alarm text lists**

This folder is empty.

# Instrumentation Tools

Totally Integrated Automation Portal												
<b>I-device feature sample project / Controller [CPU 1516-3 PN/DP] / Local modules</b>												
<b>Controller [CPU 1516-3 PN/DP]</b>												
<b>Controller</b>												
<b>General\Project information</b>												
<b>Name</b>	Controller			<b>Author</b>	Mmuhamed			<b>Comment</b>				
<b>Rack</b>	0			<b>Slot</b>	1							
<b>General\Catalog information</b>												
<b>Short designation</b>	CPU 1516-3 PN/DP			<b>Description</b>	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			<b>Article number</b>	6ES7 516-3AN02-0AB0			
<b>Firmware version</b>	V2.8											
<b>General\Identification &amp; Maintenance</b>												
<b>Plant designation</b>				<b>Location identifier</b>				<b>Installation date</b>	2023-12-12 11:16:27.065			
<b>Additional information</b>												
<b>General\Checksums</b>												
<b>Text lists</b>	FA 70 E8 75 1D 5A 8E 29			<b>Software</b>	31 84 93 E9 6F F1 39 91							
<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 - Controller [CPU 1516-3 PN/DP] - Configured</b>		
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		
<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											
<b>Type</b>	<b>Addr. from</b>	<b>Addr. to</b>	<b>Module</b>	<b>PIP</b>	<b>OB</b>	<b>Device name</b>	<b>Device number</b>	<b>Size</b>	<b>Master / IO system</b>	<b>Rack</b>	<b>Slot</b>	
I	0	0	From I-device to controller	Automatic update	-	I-device [CPU 1214C AC/DC/Rly]	1	1 Bytes	PROFINET IO-System [100]	0	1 X1	
O	0	0	From controller to I-device	Automatic update	-	I-device [CPU 1214C AC/DC/Rly]	1	1 Bytes	PROFINET IO-System [100]	0	1 X1	

## I-device feature sample project / Controller [CPU 1516-3 PN/DP] / Distributed I/O

### PROFINET IO-System (100): PN/IE\_1

#### PROFINET IO-System

##### General

IO controller:	Controller	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	0	From I-device to controller	Automatic update	-	I-device [CPU 1214C AC/DC/Rly]	1	1 Bytes	PROFINET IO-System [100]	0	1 X1
O	0	0	From controller to I-device	Automatic update	-	I-device [CPU 1214C AC/DC/Rly]	1	1 Bytes	PROFINET IO-System [100]	0	1 X1



## I-device feature sample project / Controller [CPU 1516-3 PN/DP] / Distributed I/O / PROFINET IO-System (100): PN/IE\_1

### I-device [CPU 1214C AC/DC/Rly]

I-device											
Project information											
<b>Name</b>	I-device		<b>Author</b>	Mmuhamed			<b>Comment</b>				
<b>Slot</b>	1		<b>Rack</b>	0							
Catalog information											
<b>Short designation</b>	CPU 1214C AC/DC/Rly		<b>Description</b>	Work memory 100 KB; 120/240VAC power supply with DI14 x 24VDC SINK/SOURCE, DQ10 x relay and AI2 on board; 6 high-speed counters and 4 pulse outputs on-board; signal board expands on-board I/O; up to 3 communication modules for serial communication; up to 8 signal modules for I/O expansion; PROFINET IO controller, I-device, transport protocol TCP/IP, secure Open User Communication, S7 communication, Web server, OPC UA: Server DA			<b>Article number</b>	6ES7 214-1BG40-0XB0			
<b>Firmware version</b>	V4.4										
Connection resources\											
	<b>Station resources - Reserved - Maximum</b>		<b>Station resources - Reserved - Configured</b>		<b>Station resources - Dynamic - Configured</b>		<b>Module resources - I-device [CPU 1214C AC/DC/Rly] - Configured</b>				
Maximum number of resources:			62		6		68				
	Maximum		Configured		Configured		Configured				
PG communication:	4		-		-		-				
HMI communication:	12		0		0		0				
S7 communication:	8		0		0		0				
Open user communication:	8		0		0		0				
Web communication:	30		-		-		-				
Other communication:	-		-		0		0				
Total resources used:			0		0		0				
Available resources:			62		6		68				
Overview of addresses\Overview of addresses\Overview of addresses											
<b>Inputs</b>	True			<b>Outputs</b>	True			<b>Address gaps</b>	False		
<b>Slot</b>	True										
Type	Addr. from	Addr. to	Module	PIP	Device name	Device number	Size	Master / IO system	Rack	Slot	
I	0	1	DI 14/DQ 10_1	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 1	
O	0	1	DI 14/DQ 10_1	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 1	
I	64	67	AI 2_1	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 2	
I	1000	1003	HSC_1	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 16	
I	1004	1007	HSC_2	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 17	
I	1008	1011	HSC_3	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 18	
I	1012	1015	HSC_4	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 19	
I	1016	1019	HSC_5	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 20	
I	1020	1023	HSC_6	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 21	
O	1000	1001	Pulse_1	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 32	
O	1002	1003	Pulse_2	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 33	
O	1004	1005	Pulse_3	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 34	
O	1006	1007	Pulse_4	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 35	
O	2	2	From I-device to controller	Automatic update	I-device [CPU 1214C AC/DC/Rly]	1	1 Bytes	PROFINET IO-System [100]	0	1 X1	
I	2	2	From controller to I-device	Automatic update	I-device [CPU 1214C AC/DC/Rly]	1	1 Bytes	PROFINET IO-System [100]	0	1 X1	



# Instrumentation Tools

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

## I-device feature sample project

### I-device [CPU 1214C AC/DC/Rly]

I-device											
Project information											
Name	I-device	Author	Mmuhamed			Comment					
Slot	1	Rack	0								
Catalog information											
Short designation	CPU 1214C AC/DC/Rly	Description	Work memory 100 KB; 120/240VAC power supply with DI14 x 24VDC SINK/SOURCE, DQ10 x relay and AI2 on board; 6 high-speed counters and 4 pulse outputs on-board; signal board expands on-board I/O; up to 3 communication modules for serial communication; up to 8 signal modules for I/O expansion; PROFINET IO controller, I-device, transport protocol TCP/IP, secure Open User Communication, S7 communication, Web server, OPC UA: Server DA			Article number	6ES7 214-1BG40-0XB0				
Firmware version	V4.4										
Connection resources											
	Station resources - Reserved - Maximum	Station resources - Reserved - Configured	Station resources - Dynamic - Configured	Module resources - I-device [CPU 1214C AC/DC/Rly] - Configured							
Maximum number of resources:	62	6	68								
	Maximum	Configured	Configured								
PG communication:	4	-	-								
HMI communication:	12	0	0								
S7 communication:	8	0	0								
Open user communication:	8	0	0								
Web communication:	30	-	-								
Other communication:	-	-	0								
Total resources used:	0	0	0								
Available resources:	62	6	68								
Overview of addresses											
Inputs	True			Outputs	True			Address gaps	False		
Slot	True										
Type	Addr. from	Addr. to	Module	PIP	Device name	Device number	Size	Master / IO system	Rack	Slot	
I	0	1	DI 14/DQ 10_1	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 1	
O	0	1	DI 14/DQ 10_1	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 1	
I	64	67	AI 2_1	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 2	
I	1000	1003	HSC_1	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 16	
I	1004	1007	HSC_2	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 17	
I	1008	1011	HSC_3	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 18	
I	1012	1015	HSC_4	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 19	
I	1016	1019	HSC_5	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 20	
I	1020	1023	HSC_6	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 21	
O	1000	1001	Pulse_1	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 32	
O	1002	1003	Pulse_2	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 33	
O	1004	1005	Pulse_3	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 34	
O	1006	1007	Pulse_4	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 35	
O	2	2	From I-device to controller	Automatic update	I-device [CPU 1214C AC/DC/Rly]	1	1 Bytes	PROFINET IO-System [100]	0	1 X1	
I	2	2	From controller to I-device	Automatic update	I-device [CPU 1214C AC/DC/Rly]	1	1 Bytes	PROFINET IO-System [100]	0	1 X1	

## I-device feature sample project / I-device [CPU 1214C AC/DC/Rly] / 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
▼ Input		
Initial_Call	Bool	
Remanence	Bool	
Temp		
Constant		



## I-device feature sample project / I-device [CPU 1214C AC/DC/Rly]

### Technology objects

This folder is empty.



## I-device feature sample project / I-device [CPU 1214C AC/DC/Rly]

### PLC tags

PLC tags			
Icon	Name	Data type	Address
	Tag_1	Byte	%QB0
	Tag_2	Byte	%IB0

## I-device feature sample project / I-device [CPU 1214C AC/DC/Rly] / PLC tags

### Default tag table [34]

PLC tags			
Icon	Name	Data type	Address
	Tag_1	Byte	%QB0
	Tag_2	Byte	%IB0

I-device feature sample project / I-device [CPU 1214C AC/DC/Rly]

**PLC data types**

This folder is empty.

I-device feature sample project / I-device [CPU 1214C AC/DC/Rly] / Watch and force tables

## Force table

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

## I-device feature sample project / I-device [CPU 1214C AC/DC/Rly] / Watch and force tables

### Watch table\_1

Name	Address	Display format	Modify value
"Tag_1"	%QBO	Hex	16#05
"Tag_2"	%IBO	Hex	16#05



I-device feature sample project / I-device [CPU 1214C AC/DC/Rly]

Traces

Name

I-device feature sample project / I-device [CPU 1214C AC/DC/Rly] / Traces

## Measurements

This folder is empty.

I-device feature sample project / I-device [CPU 1214C AC/DC/Rly] / Traces

Combined measurements

Name

I-device feature sample project / I-device [CPU 1214C AC/DC/Rly] / OPC UA communication

## Server interfaces

This folder is empty.

I-device feature sample project / I-device [CPU 1214C AC/DC/Rly]

## PLC alarm text lists

This folder is empty.

# Instrumentation Tools

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

## I-device feature sample project / I-device [CPU 1214C AC/DC/Rly] / Local modules

### I-device [CPU 1214C AC/DC/Rly]

I-device											
Project information											
Name	I-device	Author	Mmuhamed			Comment					
Slot	1	Rack	0								
Catalog information											
Short designation	CPU 1214C AC/DC/Rly	Description	Work memory 100 KB; 120/240VAC power supply with DI14 x 24VDC SINK/SOURCE, DQ10 x relay and AI2 on board; 6 high-speed counters and 4 pulse outputs on-board; signal board expands on-board I/O; up to 3 communication modules for serial communication; up to 8 signal modules for I/O expansion; PROFINET IO controller, I-device, transport protocol TCP/IP, secure Open User Communication, S7 communication, Web server, OPC UA: Server DA			Article number	6ES7 214-1BG40-0XB0				
Firmware version	V4.4										
Connection resources											
	Station resources - Reserved - Maximum	Station resources - Reserved - Configured	Station resources - Dynamic - Configured	Module resources - I-device [CPU 1214C AC/DC/Rly] - Configured							
Maximum number of resources:	62	6	68								
	Maximum	Configured	Configured								
PG communication:	4	-	-								
HMI communication:	12	0	0								
S7 communication:	8	0	0								
Open user communication:	8	0	0								
Web communication:	30	-	-								
Other communication:	-	-	0								
Total resources used:	0	0	0								
Available resources:	62	6	68								
Overview of addresses											
Inputs	True			Outputs	True			Address gaps	False		
Slot	True										
Type	Addr. from	Addr. to	Module	PIP	Device name	Device number	Size	Master / IO system	Rack	Slot	
I	0	1	DI 14/DQ 10_1	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 1	
O	0	1	DI 14/DQ 10_1	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 1	
I	64	67	AI 2_1	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 2	
I	1000	1003	HSC_1	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 16	
I	1004	1007	HSC_2	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 17	
I	1008	1011	HSC_3	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 18	
I	1012	1015	HSC_4	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 19	
I	1016	1019	HSC_5	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 20	
I	1020	1023	HSC_6	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	4 Bytes	-	0	1 21	
O	1000	1001	Pulse_1	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 32	
O	1002	1003	Pulse_2	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 33	
O	1004	1005	Pulse_3	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 34	
O	1006	1007	Pulse_4	Automatic update	I-device [CPU 1214C AC/DC/Rly]	-	2 Bytes	-	0	1 35	
O	2	2	From I-device to controller	Automatic update	I-device [CPU 1214C AC/DC/Rly]	1	1 Bytes	PROFINET IO-System [100]	0	1 X1	
I	2	2	From controller to I-device	Automatic update	I-device [CPU 1214C AC/DC/Rly]	1	1 Bytes	PROFINET IO-System [100]	0	1 X1	

## I-device feature sample project

### Ungrouped devices

This folder is empty.

## I-device feature sample project

### Security settings

This folder is empty.



I-device feature sample project / Cross-device functions / Project traces

## Measurements

This folder is empty.

## I-device feature sample project / Common data

### Alarm classes

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

## I-device feature sample project / Common data

### Logs

This folder is empty.

## I-device feature sample project / Languages & resources

### Project languages

#### Languages

##### Reference language

English (United States)

##### Editing language

English (United States)

##### Other project languages

Empty

## I-device feature sample project / Languages & resources / Project texts

### Project texts

Project texts		
English (United States)	Category	Reference
"Main Program Sweep (Cycle)"	Block comment	I-device feature sample project\Controller [CPU 1516-3 PN/DP]\Program blocks\Main [OB1]\Block title
"Main Program Sweep (Cycle)"	Block comment	I-device feature sample project\I-device [CPU 1214C AC/DC/Rly]\Program blocks\Main [OB1]\Block title
A	Alarm class text	I-device feature sample project\Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName
A	Alarm class text	I-device feature sample project\Acknowledgement\ShortName
NA	Alarm class text	I-device feature sample project\No Acknowledgement\AlarmClassData_IDisplayNaming_DisplayName
NA	Alarm class text	I-device feature sample project\No Acknowledgement\ShortName