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Display of SINAMICS Error Messages in Runtime Professional

SINAMICS G120, WinCC Runtime Professional



https://support.industry.siemens.com/cs/ww/en/view/109738320

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2.1 Configuration

1 Task

Description of the automation task

This application example shows how you can read warning and error messages from the frequency converter and display them in the alarm view of WinCC Runtime Professional.

Overview of the automation task

The figure below provides an overview of the automation task.

Figure 1-1



2 Solution

2.1 Configuration

Diagrammatic representation

Figure 2-1



Example

Using WinCC Runtime Professional, you want to:

• Display warning and error messages via the alarm view

Required knowledge

To implement the solution described in this document, basic knowledge of the following topics is required:

- Automation technology
- Commissioning of the SINAMICS G120 frequency converter

2.2 Hardware and software components

2.2.1 Validity

This application is valid for

• TIA Portal V13 SP1 Update 7

2.2.2 Components used

The application was created with the following components:

Hardware components

Table 2-1

Component	No.	Article number	Note
SINAMICS Control Unit CU240E-2 PN-F	1	6SL3244-0BB13-1FA0	Firmware >= V4.7
SINAMICS PM240-2	1	6SL3210-1PB13-0AL0	
SIMATIC IPC 677D	1	6AV7260-5GM40-0XX0	Alternatively, you can use a different IPC.
SIMATIC S7 1516-3 PN/DP	1	6ES7516-3AN00-0AB0	Alternatively, you can use a different S7-1500.
Low-voltage motor	1	1LA7060-4AB10-Z	

Software components

Table 2-2

Component	No.	Article number	Note
SINAMICS Startdrive V13	1	6SL3072-4DA02-0XG0	
WinCC Runtime Professional V13	1	6AV21053-0	
STEP 7 Professional V13	1	6ES7822-103	

Sample files and projects

The following list contains all files and projects that are used in this example.

Table 2-3

Component	Note
109738320_HMI_FU_CODE_v13.zip	This zip file contains the WinCC TIA Portal project.
109738320_HMI_FU_DOKU_v13_e.pdf	This document.

3.1 Access to converter parameters

3 Basics

3.1 Access to converter parameters

Parameters in the SINAMICS drive are accessed using the SINA PARA block of the S7-1500. Parameter 2132 (current warning messages) and parameter 2131 (current error messages) are read with the aid of the SINA block. Using a VBScript script, the warning and error messages are displayed as user alarms in the alarm view of WinCC Professional. The text list contains the error and warning message of the respective SINAMICS drive.

Figure 3-1



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3.2 Creating error messages in WinCC Professional

3.2 Creating error messages in WinCC Professional

In <u>Industry Online Support</u>, you will find an XML file that contains fault and warning messages for your drive component and firmware. This file must be downloaded from the Internet. With the aid of the <u>XML Parser</u> tool, the XML file can be converted to Excel. This format can be inserted into a text list of your TIA Portal project. With the aid of a user alarm, the HMI with the error and warning messages is linked to a text list. It is displayed in the HMI via an alarm view.

Figure 3-2



4.1 Adding the frequency converter to the project

4 Configuration and Project Engineering: Drive

4.1 Adding the frequency converter to the project

If the "Startdrive" option package is installed in TIA Portal, the G120 can be added as a new device, configured and parameterized. Alternatively, you can configure the frequency converter using STARTER plus SSP for version 4.7 or higher.

For the "Startdrive" option package, please refer to the following Entry ID: <u>68034568</u>

Table 4-1



4.2 Setting the Ethernet address

4.2 Setting the Ethernet address

In order to establish a connection via Ethernet, assign an IP address to the SINAMICS converter. To do this, the SINAMICS offers the following options:

No.	Procedure
1.	In the "Online access" menu, double-click the "Update accessible devices" menu item.
	Documentation settings
	Languages & resources
	▼ 🔚 Online access
	Y Display/hide interfaces
	COM [RS232/PPI multi-master cable]
	▼ 🛄 COM <2> [RS232/PPI multi-master cable] 🛛 💹
	🔻 🛄 Intel(R) PRO/1000 MT Network Connection 👼
	Pupdate accessible devices
	Implc_1.profinet interface_1 [17 [Implc_1.30]
	• 🚂 antrieb_1 [172.16.51.210]
	Diagonal [172.16.51.20]
2.	In the list of accessible devices, select the drive and activate "Online & diagnostics". Then assign an IP address and a PROFINET name to the converter.
	DDS: D (Active V DDS: D (Active V
	Name Diagnostics Assign IP address * Diagnostics general * Diagnostics general * Diagnostics general # Update accessible devices Assign IP address * Diagnostics general # Update accessible devices Assign IP address # Update accessible devices Message hittory Conclistus word Drive enable isignals * Subprovide interfice_1 [192.168.0.1] Brie enable isignals * Subprovide interfice_1 [192.168.0.1] * Water enable isignals * Subprovide interfice_1 [192.168.0.1] * Functions

4.3 Running the Commissioning Wizard

Table 4-3

4.3 Running the Commissioning Wizard

The Startdrive Commissioning Wizard allows you to perform commissioning in a short time. Startdrive supports offline commissioning in the project or online commissioning directly on the drive unit. After offline commissioning, download the configuration from the PG/PC to the unit; after online commissioning, download the configuration from the drive unit to your project. In the next step, you will get to know online commissioning.

Note

Quick online commissioning

Before commissioning, you have to connect Startdrive online to the drive unit.

No.		Action	
1.	In the project navigator, s online".	elect the drive unit and in the context menu, select "Go	
2.	In the project navigator, d workspace. In the workspace, click "C	ouble-click "Commissioning". A window appears in the ommissioning Wizard". The wizard starts.	
3.	Set the open-loop/closed-loop control type. Click "Next" to confirm the settings.		
	Commissioning Wizard - (Online)	? X	
		Open-loop/closed-loop control type Specification of the open-loop/closed-loop control type according to the load characteristic and open-loop/closed-loop control task	
	Open-loop/closed-loop	Control type:	
	Defaults of the setpoi	[0] U/f control with linear characteristic	
	Drive setting		
	Motor		
	Important parameters	M	
	Drive functions		
	Summary		
		Kext >> Finish Cancel	

4 Configuration and Project Engineering: Drive

4.3 Running the Commissioning Wizard



4 Configuration and Project Engineering: Drive

4.3 Running the Commissioning Wizard



4 Configuration and Project Engineering: Drive

4.3 Running the Commissioning Wizard



5.1 Adding the PLC to the project

5 Configuration and Project Engineering: PLC

5.1 Adding the PLC to the project

No.		Action		
·.	Add a controller to y Controllers" and sel	your project: In the project tr ect your controller.	ee, go to "A	dd new device $ ightarrow$
	Add new device			
	Device name:			
			_	
	PLC_1			
		Controllor	- ·	
			Device:	
		SIMATIC \$7-1200		_
				00.0
	Controllers	CPU 1511-1 PN		1 H H H
		• 🔂 CPU 1511C-1 PN		
		CPU 1512C-1 PN		CPU 1516-3 PN/DP
		CPU 1513-1 PN		
		CPU 1515-2 PN	Article no.:	6ES7 516-3AN00-0AB0
	HMI	👻 📊 CPU 1516-3 PN/DP	Version:	V1.7
		6ES7 516-3AN00-0AB0		
		🚺 6ES7 516-3AN01-0AB0 🔪	Description:	
		CPU 1517-3 PN/DP	U with disp	lay, work memory MB code and 5
		CPU 1518-4 PN/DP	MB data; 10 n	is bit instruction time; 4-stage ncept, integrated technology
	PC systems	CPU 1511F-1 PN	functions: mo	tion, closed-loop control,
	resystems	CPU 1513F-1 PN	counting&me	easuring; integrated tracing; 1st
		CPU 1515F-2 PN	2 ports, MRP,	transport protocol TCP/IP, S7
	-	CPU 1516F-3 PN/DP	communicati	on, Web server, constant bus cycle
		CPU 1517F-3 PN/DP	services, tran	sport protocol TCP/IP, Web server,
		CPU 1518F-4 PN/DP	routing; 3rd ir	nterface: PROFIBUS DP master,
	Drives		constant bus	cycle time, routing, firmware V1./
		Device Proxy		
	Open device view			OK Cancel

5 Configuration and Project Engineering: PLC

5.1 Adding the PLC to the project



5.2 Adding the DriveLib library

5.2 Adding the DriveLib library

The DriveLib library provides standard blocks for easy implementation of a cyclic/acyclic communication connection between a SIMATIC S7-300/400/1200/1500 controller and a drive with the SINAMICS S/G converter system.

Table 5-2

No.	Action
1.	Download the Drive LIB library at this Entry ID link: <u>109475044</u>
2.	Unzip the library.
3.	In TIA Portal, open the "Libraries" task card.
4.	Add the library to your TIA Portal project.
	✓ Global libraries
	💣 🔂 🖳 🖄 🛅 All
	UI Buttons-and-Switches
	[]] DriveLib_S71200_V13
	DriveLib_S71200_V4_V13
	DriveLib_S71500_V13
	DriveLib_S7300-S7400_V13
	Long Functions
	Im Monitoring-and-control-objects
	Documentation templates
	▶ 🛄 WinAC_MP
	▶ 🛄 LGF

5.3 Adding the SINA_PARA_S block to the controller

5.3 Adding the SINA_PARA_S block to the controller

The SINA_Para_S function block is used to easily connect different SINAMICS S/G converter systems to a SIMATIC S7 controller. The block can be used with the following CPUs: S7-300/400/1200/1500.

The acyclic communication block FB287 (SINA_PARA_S) provides the user with a predefined interface for easy read/write access to any SINAMICS drive parameters. The only data the user has to specify is the parameter number, a possible index and – for write access – a parameter value. After starting the job, the job is processed autonomously.

For more information about the block, please refer to the following Entry ID: <u>109475044</u>

5 Configuration and Project Engineering: PLC

5.3 Adding the SINA_PARA_S block to the controller

No.	Action	
1.	Insert the SINA_PARA_S block twice into your organizatio	n block OB1.
	✓ Global libraries	
	💣 🔂 🗳 🖺 🖬 📑	•
	Duttons-and-Switches	~
	DriveLib_S71200_V13	
	DriveLib_S71200_V4_V13	
	DriveLib_S71500_V13	
	🕶 🛅 Master copies	
	1_57_Program	
	D2_EPOS_SINAMICS	
	SINA_PARA	
	SINA_PARA_S	
	SINA_POS	
	UDT_RECV_POS	
	UDT_RECV_SPEED	
	I UDT_SEND_POS	
	I UDT_SEND_SPEED	
	U_DriveLib_\$7300-\$7400_V13	~

5.3 Adding the SINA_PARA_S block to the controller

No.	Action		
2.	Read the error message [p block.	parameter 2131] of the SIN/	AMICS G120 using the SINA
	The "StartFaultmessage" F error number is written to t	PLC tag was created for sta he "ReadFaultNumber" tag	rting the read job. The current
	Input signal	Туре	Meaning
	Start	BOOL	Start of read job
	ReadWrite	BOOL	Type of job 0 = read, 1 = write
	LAddr	HW-IO/INT	Hardware ID/address of axis or drive
	ParaNo	INT	Parameter number [parameter 2131 = error message]
	Value Write	REAL	Value of parameter
	AxisNO	INT	Axis number/axis ID for system with multiple axes
	ValueRead	REAL	Value of read parameter
		%DB1 "SINA_PARA_S_ DB"	
		%FB287	
		"SINA_PARA_S"	
		EN	ENO
	%A6.0 *StartFaultmessa		Errorld
	ge" —	Start	Busy
	0 —	ReadWrite	Done
	262 —	LAddr	Diagld — …
	2131 —	Parameter	%MD14
	0—	Index	ReadFaultNumbe
	0.0	ValueWrite Valu	eRead — r
			rormat
	I		

5.3 Adding the SINA_PARA_S block to the controller

		Acti	on	
	Read the warning message [parameter 2132] of the SINAMICS G120 using the SINA block.			
	The "StartWarningmes current warning numb	ssage" PLC tag was o er is written to the "Re	created for starting the read job. The eadWarningNumber" tag.	
	Input signal	Туре	Meaning	
	Start	BOOL	Start of read job	
	ReadWrite	BOOL	Type of job 0 = read, 1 = write	
	LAddr	HW-IO/INT	Hardware ID/address of axis or drive	
	ParaNo	INT	Parameter number [parameter 2132 = warning message]	
	Value Write	REAL	Value of parameter	
	AxisNO	INT	Axis number/axis ID for system with multiple axes	
	ValueRead	REAL	Value of read parameter	
	Network 2: w	arning number		
	Comment	-		
		%L "SINA_ DB	DB2 PARA_S_ 3_2*	
		"SINA_	PARA_S"	
		EN	ENO	
	%44.	0	Error	
	"StartWarningme	S	Errorld	
	sage	Start	Busy —	
	26	ReadWrite	Done —	
	20	2 — LAGOr 2 — Parameter	Diagia —	
	215	0 — Index	%MD10	
	0.	0 — ValueWrite	ValueRead — mber"	
		1 — Axis No	Format	
		M	ErrorNo	
		AI		

5.4 Setting the IP address on the PC station

5.4 Setting the IP address on the PC station

No	10	tion
NO.	AC	lion
1.	Add a PC system to your project. Add new device Device name: PC station	×
	Controllers Controllers SIMATIC S7 Open Controller SIMATIC Controller Application SIMATIC HMI application SUSer applications Viser applications	Device:
	☑ Open device view	OK Cancel
2	Select WinCC RT Professional as the HM	l application.
	Select WinCC RT Professional as the HM Hardware catalog	I application.
	Select WinCC RT Professional as the HM Hardware catalog Options	I application. ■ ■ ▶
2.	Select WinCC RT Professional as the HM Hardware catalog Options	I application.
	Select WinCC RT Professional as the HM Hardware catalog Options	Il application.
	Select WinCC RT Professional as the HM Hardware catalog Options Catalog	II application.
	Select WinCC RT Professional as the HM Hardware catalog Options	Il application.
	Select WinCC RT Professional as the HM Hardware catalog Options Catalog Filter PC general SIMATIC Controller Application	Il application.
2.	Select WinCC RT Professional as the HM Hardware catalog Options Catalog Filter PC general SIMATIC Controller Application SIMATIC HM application	Il application.
2.	Select WinCC RT Professional as the HM Hardware catalog Options Catalog Filter Filter Filter SIMATIC Controller Application SIMATIC HMI application SIMATIC HMI application SIMATIC HMI application SIMATIC HMI application SIMATIC HMI application SIMATIC HMI application	Il application.
2.	Select WinCC RT Professional as the HM Hardware catalog Options Catalog Filter PC general PC general SIMATIC Controller Application SIMATIC HM application WinCC RT Professional WinCC RT Professional WinCC Client	Il application.

5 Configuration and Project Engineering: PLC

5.4 Setting the IP address on the PC station

No.	Action
3	Add a communications module.
	PC general
	Imatic Controller Application
	SIMATIC HMI application
	User applications
	Communications modules
	✓ PROFINET/Ethernet
	▶ 🙀 CP 1604
	CP 1612 (A2)
	CP 1613 (A2)
	🕨 🔚 CP 1616 onboard
	CP 1616
	CP 1623
	CP 1628
	IE general
	PROFIBUS
4.	Assign a subnet to your PC system. Assign an IP address and a subnet mask in the
	same network as your frequency converter.
	PROFINET interface [Module]
	General IO tags System constants Texts General Ethernet addresses
	Options Ethernet addresses Interface networked with
	Subnet: PIVIE_1
	MAC address: 08 -00 -06 -01 -00 -00
	IP protocol
	Use IP protocol
	Subnet mask: 255 . 255 . 0
	Use router
5.	Configure an HMI connection to the S7 controller.
	🔐 Verbindungen zu S7 Steuerungen in Geräte & Netze
	Verbindungen Name Kommunikationstreiber Station Partner Knoten Kommentar
	Imm HM_Verbindung_1 SIMATIC S7 1500 S71500/E1200/MPS PLC_1 CPU 1516-3 PN/DP <htinzufügen></htinzufügen>
	Parameter
	WinCC RT Professional Station
	WinCC Schnittstelle:
	Bediengerät Steuerung
	Zugangspunkt: Intel(R) PRO/1000 MT-Netzwerkverbindung.TCPIP.1 Adresse: 192.168.0.1 Zugangspasswort:

5.5 Configuring the alarm view

5.5 Configuring the alarm view

Table	5-4
1 abic	0 -

No.	Action	
1.	Insert an "alarm view" into the desired screen in order the HMI. To insert an "alarm view", use drag and drop the "Tools" task card in the "Controls" palette to the scr	o display the messages on to move the alarm view from een.
	WinCC Alarm Control	✓ Elemente
	Datum Uhrzeit Meldetext	🕰 📕 💵 🕂 🗒 🖛 S=
	2	S .
	Fertig Anstehend: 0 Zu quittieren: 0 Ausgeblendet: 0 Liste: 0	
		惠

5.6 Generating a text list with the SINAMICS XML Parser

5.6 Generating a text list with the SINAMICS XML Parser

In <u>Industry Online Support</u>, you will find an XML file that contains fault and warning messages for your drive component and firmware. For the SINAMICS Control Unit CU240E-2 PN-F firmware version 4.7 described in the application example, the fault and warning messages can be found at the following Entry ID link: <u>92554110</u>. With the aid of the XML Parser tool, the XML file can be converted to Excel. The following section shows you how to convert the faults and warnings to Excel for a CU240E-2 PN-F.

Table	5-5
-------	-----

No.	Action
1.	Download the fault and warning messages for your SINAMICS Control Unit with its firmware version from Industry Online Support to your computer.
2.	Use the XML parser to generate an Excel spreadsheet with fault and warning messages. For detailed information on the XML parser, please refer to the following Entry ID: <u>77467239</u>
3.	Generate a text list for the drive's fault and warning messages.
4.	<complex-block></complex-block>

5.7 Configuring a user alarm

5.7 Configuring a user alarm

In the project, a user alarm is configured with the aid of a script: Using the SINA block, the error and warning messages of the SINAMICS are read from the PLC. With the aid of the "LookupText" function, the error number is linked to the configured error texts from the text list and displayed in the alarm view. For more information on how to configure messages and alarms in WinCC (TIA Portal), please refer to Entry ID: <u>62121503</u>

Tabl	e 5-6
------	-------

No.	Action
1.	In the project tree, open HMI alarms. HMI alarms
	Open the "User alarms" tab. Add a new user alarm.
2.	rk → PC Station [SIMATIC PC station] → HMI_RT_1 [WinCC RT Professional] → HMI alarms User alarms User alarms User alarms UD Alarm text Alarm class Acknowledg Ackn Single ackno Alar
3.	Open the "Insert parameter field" tab. User alarms ID Alarm text Alarm class Acknowledg Ackn Single ackno Alarm annun Add news Add news Add news Copy Paste Select all Insert parameter field Clear formatting Aa Change to capital letters
4.	Select a parameter. In Display type, select "Text".

5 Configuration and Project Engineering: PLC

5.7 Configuring a user alarm

No.	Action						
5.	Configure the following actions to a button.						
	Pressing the button sets the "StartWarningMessage" tag to true. This executes the SINA_PARA_S block that returns the drive's current warning number.						
	Press left mouse button SetBit Release left mouse button Tag (Input/output) StartWarningmessage Add function> 						
	Releasing the button starts the "EAWarning" script that, with the aid of the text list, converts the current error number to error text.						
	Press left mouse button Release left mouse button Tag (Input/output) StartWarningmessage Press right mouse button EAWarning <						
6.	Create the following script.						
	The script checks the SINA_PARA_S block's warning number. As soon as the warning number is 0, the drive is OK. If the number is not 0, a user alarm is called. To this end, the current warning number is linked to the text list using the "LookupText" command and then displayed in the alarm view.						
	3 Sub EAWarning()						
	<pre>5 'Check warning message is active 6 If SmartTags("ReadWarningNumber") = 0 Then 7 HMIRuntime.Trace "Drive OK" & vbLf 8 Else 0</pre>						
	<pre>9 10 'Read actual language 11 Dim language 12 language = HMIRuntime.Language 13 SmartTags("HMILanguage") = language</pre>						
	<pre>14 15 'German text 1031 16 If language = 1031 Then 17 LookupText "warningtext", "ReadWarningNumber", "de-DE", "faults_and_erros" 18 End If</pre>						
	<pre>19 20 'Englisch text 1033 21 If language = 1033 Then 22 LookupText "warningtext", "ReadWarningNumber", "en-US", "faults_and_erros" 20 Fact If</pre>						
	25 End 11 24 25 'Create User Alarm 26 If (language = 1033 Or language = 1031) Then						
	<pre>27 Dim userAlarm 28 Dim ID UA 29 Dim State_UserAlarm 30 ID UA = "2"</pre>						
	<pre>31 State_UserAlarm = "1" 32 Dim text 33 text = SmartTags("warningtext") 34 Set userAlarm = HMIRuntime.Alarms(ID UA)</pre>						
	<pre>35 userAlarm.State = State_UserAlarm 36 userAlarm.ProcessValues(1) = text 37 userAlarm.ProcessValues(2) = text 38 userAlarm.Create "MyApplication"</pre>						
	<pre>39 Else 40 HMIRuntime.Trace "Language not configured" & vbLf 41 End If 42</pre>						
	43 44 End If 45						
	46 End Sub						
7.	Repeat steps 1 through 6 for the error messages.						

6.1 Starting up the sample project

6 Operation of the Application

Before you start up the configuration, check the wiring of the components.

6.1 Starting up the sample project

Table 6-1

No.	Action
1.	Unzip the "109738320_HMI_FU_CODE_v13.zip" file.
2.	Start TIA Portal.
3.	Unzip the "FrequencyConverter.zap13" project.
4.	Download the SIMATIC WinCC project to your PC station.
5.	Download the SIMATIC Startdrive project to your frequency converter.

6.2 Using the sample project

Figure 6-1

29.08.2016 13:09:26		
Siemens Ind	ustry Online Support	SIEMENS
← ♠		
Alarm View	warning and error messages read warning messages read error messages warning and error messages cost Disponition I Gebad Scipt - Darponition I	
*	Alarm View I Wick Alarm Control I Wick Alarm Control I 2008/10 I 2008/16 13:08:32.442 A01009 (N) - CU: Control module overtemperature 3 4 5 6 7 8 Ready Pending: 2 To acknowledge: 0 Hildden 0 List: 2	₩ 1:09:26 PM

Table 6-2

No.	Action
1.	Two buttons allow you to read the warning and error message.
2.	As soon as the faults have been set to outgoing in the drive, they can be acknowledged using the button.

7 Further Notes, Tips and Tricks, etc.

7.1 Resizing the alarm text in the Alarm Control

In order to fully display the alarm text in the alarm view, resize the alarm text: In the control, go to Properties --> Blocks. Resize the alarm text length.

Alarm view_1 [Alarm control	1					<u>i</u>	roperties 🚺	nfo 追 ዄ Dia	agnostics	
Properties Animations	Events	Texts								
Property list										
	Blocks									_
General										
Appearance	Accept pr	bject settings								
Layout	Se	Label	Title as	Content as	Alignment	Length	Format	Fl Runtim	Name	
Window	Pi 🗹	Datum	Text	 Text 	Left	▼ 8	🗢 dd/MMiyy 🔄	65537	Date	^
Table	Pi 🗹	Uhrzeit	Text	Text	Left	11	Time: HH:mm:s	65538	Time	
Blocks	P	Dauer	Text	Text	Left	8	HH:mm:ss.ms	65539	Duration	
Columns	1	Sommer-/Winte	Text	Text	Left	1		65540	Daylight saving	
Alarm statistics	1	Zustand	Text	Text	Left	1		65541	Status	
Operator input alarms	1 - E	Quittierstatus	Text	Text	Left	1		65542	Acknowledgme	
Alarm filter	1 E	ID	Text	Text	Left	3	Default entry	65543	ID	
Text format	Sec. 19	Meldeklasse	Text	Text	Left	8		65544	Alarm class	
Toolbar	S 1	AG/CPU-Nummer	Text	Text	Left	2		65546	CPU number of	4
Status bar	1 I I I I I I I I I I I I I I I I I I I	Variable	Text	Text	Left	1		65547	Alarm tag	
Data export	P	Archivieren	Text	Text	Left	1		65549	Logging	
Security	- <u>-</u>	Kommentar	Text	Text	Left	1		65551	Comment	
Miscellaneous	P	Infotext	Text	Text	Left	1		65552	Info text	
	P	Loop-In-Alarm	Text	Text	Left	1		65553	Loop-In-Alarm	
	P	Rechnername	Text	Text	Left	10		65554	Computer name	
		Benutzername	Text	Text	Left	10		65555	Username	
	1	Priorität	Text	Text	Left	з	Default entry	65556	Priority	
	S 🔄 🔁	Meldetext	Text	Text	Left	60		131073	Alarm text	
	S 🔄 🔁	Zusatztext 1	Text	Text	Left	10	\sum	131074	Additional text 1	1
	1 E	Zusatztext 2	Text	Text	Left	10		131075	Additional text 2	~

7.2 Drive blocks

To control the drive for speed input or positioning, you can use the technology object or the DriveLib library.

For more information, please refer to Entry ID 109475044 and Entry ID 78788716.

8 Links & Literature

Table 8-1

	Торіс
\1\	Siemens Industry Online Support https://support.industry.siemens.com
\2\	Download page of the entry https://support.industry.siemens.com/cs/ww/en/view/109738320
3	XML Parser https://support.industry.siemens.com/cs/ww/en/view/77467239

9 History

Table 9-1

Version	Date	Modifications
V1.0	09/2016	First version