

Alarm Manager

This sample project describes how to access alarm objects by means of a program. With the AlarmManager object, it is possible to access active and stored alarms. It is also possible to register a client to receive alarm events.

Product description

This sample project demonstrates how to access an alarm object by means of a program. With the AlarmManager object, it is possible to access active and stored alarms. It is also possible to register a client to receive alarm events.

The sample project contains two alarm tables. The first one (type Alarmtable) shows the active and stored events. New alarms can be created by means of the buttons below the table. The second table simulates an alarm table and shows the stored alarms.

More information

A client has to implement the IAlarmManagerClient interface to get access to the alarm objects by means of a program.

The IAlarmManagerClient interface includes the following methods:

- GetFilterCriteria: A filter criteria for active and stored alarms
- ActiveAlarmChanged: Notification when an active alarm has changed (for example, if a new alarm is active or the status has changed). The list of active alarms can be read by the IAlarmHandler2.GetActiveAlarms method.
- AlarmStorageModified: Notification when a stored alarm has changed. The list of the stored alarms can be read by the IAlarmHandler2.GetAlarmsFromStorage method.

A filter can be set via the IAlarmFilterCriteria interface. The AlarmFilterCriteria function block implements the IAlarmFilterCriteria interface. In the example, the IAlarmManagerClient interface is implemented by the AlarmManagerClient function block. The client is registered at the AlarmManager in the PLC_PRG program. The ProcessAlarms function writes the alarms to the console of the controller.

Screenshots

Alarm Manager

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										A.A.S
97 98 99 100 101 102 103	A 04.06.2019 A 04.06.2019 A 04.06.2019 A 04.06.2019 A 04.06.2019 A 04.06.2019	12:37:35 Alarm 17 aktiv 12:37:02 Alarm 11 12:37:02 Alarm 12 12:37:02 Alarm 12 12:37:02 Alarm 13 12:37:02 Alarm 13 12:37:02 Alarm 14 12:37:02 Alarm 14 12:37:02 Alarm 15	aktiv aktiv aktiv aktiv aktiv	0 0 0 0	Timestamp act 04.06.2019 12:3 4.06.2019 12:4 4.06.2019 12 4.06.2019 12 4.06.2019 12 4.06.2019 12 4.06.2019 12 4.06.2019 12	7:02 :37:02 :37:02 :37:02 :37:02 :37:02 :37:02	stamp ackr	nowledge		kate
Alarn	11 Alarm 16	Alarm 21	Alarm 31	Al	on	History]		
Alarn	1 12 Alarm 17	Alarm 22	Alarm 32	All	off					
Alarn	1 13 Alarm 18	Alarm 23	Alarm 33		Aktive Alarme (alie) = 15				
Alarn	Alarm 19	Alarm 24	Alarm 34		Aktive Alarme (
Alarn	115	Alarm 25	Alarm 35		Aktive Alarme (Aktive Alarme (
_		e: Alarms from alarm						-		
Row	Timestamp Last	Message	D	internal ID	Alarmgroup	Alamciass	Priority	LatchVar1	LatchVar2	State
104						777				Nomal
105	04.06.2019 13:00:00	Alarm 34 aktiv mit 3 Zeilen	3	0	Alarme3zeilig	777	777			Normal
106	04.06.2019 12:59:58	Alarm 22 aktiv	1	0	Alarme2zeilig	???	222			Normal
	04.06.2019 12:59:57					777				Normal
						777				Active
107						777				Active

General information

Manufacturer:

3S-Smart Software Solutions GmbH Memminger Strasse 151 87439 Kempten Germany

Support:

https://support.codesys.com

Item: Alarm Manager Item number: 000045 Sales:

CODESYS Store https://store.codesys.com

Included in delivery:

• CODESYS Package with sample project

System requirements and restrictions

Programming System	CODESYS Development System V3.5.10.0							
Runtime System	CODESYS Control V3.5.10.0							
	All							
Supported Platforms/ Devices	Note: Use the "Device Reader" project to find out about the supported features of your device. "Device Reader" is available free-of-charge in the CODESYS Store.							
Additional Requirements	-							
Restrictions	-							
Licensing	No license required							
Required Accessories	-							

Note: Not all CODESYS features are available in all territories. For more information on geographic restrictions, please contact sales@codesys.com.

Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.