

Alarm Monitoring

NV4SCRIPT Example

System Requirements

- DAQ system with 1x AIn, 1x DigOut (example created with USB-AD16f and 16 formula channels)
- Miscellaneous: e-mail connection via SMTP server

Software

- NextView®4 Professional
- NextView®4 Script
- Version: 4.6 and higher

System Configuration

• Live data frequency: 10Hz (depending on DAQ system and scan settings)

2.500	10.05.2012 14:47:00)	000 18.05.2012 14 47.30.000	Überwachung ist AN
100 7.5- 8.0- 2.5-	8 006 6 000 4 000	Amh -	**** ALARM *
00- -25- 	2.000 0.000 [V1] • Sisio	W Wandah -	Alarm E-Mail aktiviere Senden ist nicht aktiv
F-Ma	ul Finstellungen	18.05.12.14.44.40 Skriptprojekt Alarm-Mor 18.05.12.14.44.40 Projektpfad: C UberaW	ntoring laden Iarvey/DocumentalMy NextView ProjectalSo
SMTR-Host mail local		18.05.12 14 44.40 Alermüberwachung ist noch nicht eingeschaftel 18.05.12 14 44.40 Churdenistellung Alerment + 2.5 18.05.12 14 44.40 Dightel Ausgabetellung für Alerm Dightel Out 1/1 19.05.12 14 44.40 Dightel Ausgabetellung für Alerm Dightel Out 1/1 19.05.12 14 44.40 Dightel Ausgabetellung für Alerm Dightel Out 1/1	
Sender	NextView Script <info@bmcm.de></info@bmcm.de>	10 05 12 14 44-40 SHTP-Mailserver mail.ocal 10 05 12 14 44-40 Sender: Ner/Verv Script -info@bmom.de> 10 05 12 14 44-40 Emote: Ner/Verv Script -info@bmom.de>	
Empfänger info@bmcm.de		18.05-12.14.45-80.E-Mail senden: desätiviert 18.05-12.14.46:11. Alamaüberwachung eingeschaltet	
fest E-Mail sender	1		

Description

The script example "Alarm Monitoring" demonstrates the implementation of a simple threshold monitoring. The alarm threshold ("Alarmschwelle") is set via the slider. The alarm case occurs if the voltage values of analog input 1 ("Analog In 1") exceed this value.

The alarm state is indicated in a text field (alarm: "Alarm", no alarm: "kein Alarm", monitoring turned off: "Überwachung ist ausgeschaltet") and is available at the first digital output ("Digital Out 1/1"). Details are listed in a message display with date and time.

In addition, the example shows how an external program can be operated via NextView®4. The simple program sendmail.exe used in this example allows for sending off an e-mail via the Windows command line program by an SMTP server not requiring authentification.



1 Quickstart

1.1 Start Script Example

The configuration (*.nvc), project (*.nvp), and script files (*.nvs) of the script example have been installed in the folder "Script Examples" together with the external programs used. They are available in the following directory (if default settings have been used).

- Windows[®] 7/8: C:\Users\<User>\My Documents\My NextView Projects\Script Examples
- Windows[®] XP: C:\Documents and Settings\<User>\My Documents\My NextView Projects\ Script Examples

If using default settings during installation, the script example Alarm-Monitoring.nvp can be opened via the Windows[®] 7/XP Start menu or the Windows[®] 8 Start screen as follows:

- Windows[®] 7/XP: Start / (All) Programs / NextView 4.6 / Script Examples / Alarm Monitoring
- Windows[®] 8: Right-click Start screen / "All Apps" / NextView 4.6 / Alarm Monitoring

1.2 Alarm Settings

The slider on the left is used to set the threshold for the alarm ("Alarmschwelle").

The alarm monitoring is activated by pressing the top right button. The text field below indicates if monitoring is on and shows the current alarm state of the analog input channel.

		-5.0 -7.5 -10.0
Monitoring is off	Monitoring is on	Monitoring is on
Überwachung ist AUS	Überwachung ist AN	Überwachung ist AN
Überwachung ausgeschaltet	kein Alarm	**** ALARM *** [,]
Monitoring turned off	No alarm	Alarm

1.3 E-mail Settings

If an e-mail is to be sent in case of alarm, the e-mail settings have to be adjusted. The currently used configuration is displayed. To make changes for the input fields, the buttons on the left must be clicked.

Settings can be tested via the button "Send Test E-Mail".

Button	Description
SMTP-Host	Name of the SMTP server
Sender	E-mail address sending the alarm e-mail
Empfänger (Recipient)	E-mail address getting the alarm e-mail

E-mailing in case of alarm is explicitly enabled via the button "Activate alarm

E-mail settings

Alarm

threshold

E-Mail Einstellungen			
SMTP-Host	mail.local		
Sender	NextView Script <info@bmcm.de></info@bmcm.de>		
Empfänger	hotline@bmcm.de		
▲ Test E-Mail senden			
Send test e-mail Recipient			

Activate alarm e-mail

Alarm E-Mail aktivieren Senden ist aktiv Sending is active

0

e-mail".

If an e-mail has been sent, further mailing is automatically disabled to avoid permanent sending of e-mails. The alarm e-mail function must be reactivated first.

[©] bmcm. Subject to change due to technical improvements. Errors and printing errors excepted. bmcm is not liable in any case for directly or indirectly caused or consequential damages resulting from improper use or any other errors at the system. Rev. 1.2 08/19/2014