

Alarm Monitoring

NV4SCRIPT Example

System Requirements

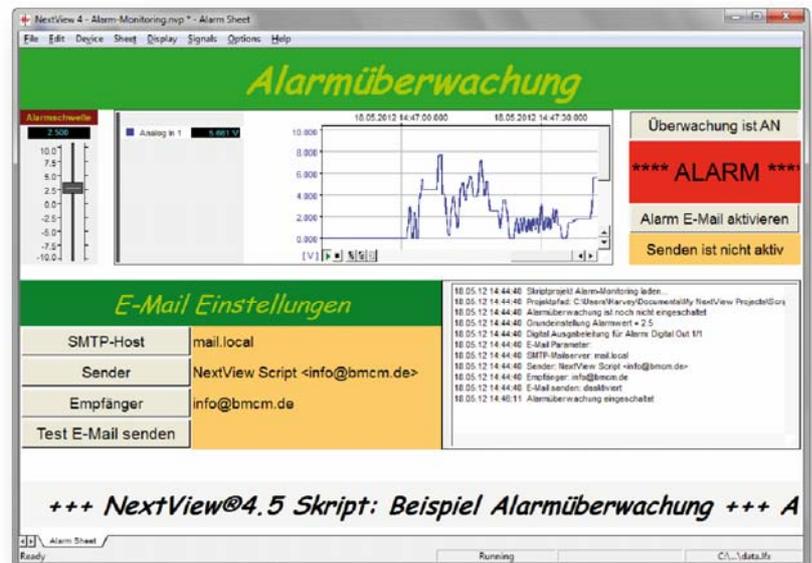
- DAQ system with 1x AIn, 1x DigOut (example created with USB-AD16f and 16 formula channels)
- Miscellaneous:
e-mail connection via SMTP server

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)



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 authentication.

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).

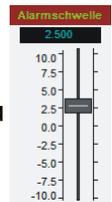
- **Windows® 7/8:** C:\Users\\My Documents\My NextView Projects\Script Examples
- **Windows® XP:** C:\Documents and Settings\\My Documents\My NextView Projects\Script Examples

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.

Monitoring is off Überwachung ist AUS	Monitoring is on Überwachung ist AN	Monitoring is on 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".

E-mail settings

E-Mail Einstellungen

SMTP-Host	mail.local
Sender	NextView Script <info@bmcm.de>
Empfänger	hotline@bmcm.de
Test E-Mail senden	

Send test e-mail
Recipient

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".

Activate alarm e-mail

Alarm E-Mail aktivieren

Senden ist aktiv

Sending is active



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.