

AlarmManager-PRO on Paessler PRTG

1. About this howTo

This document describes in short steps, how to setup Paessler's PRTG for monitoring Kentix AlarmManager-PRO with connected MultiSensors and use the AlarmManager as SMS-Gateway for sending alarms to mobile phones.

2. Initial Setup

1. Download and install the PRTG Software.
2. Download the Kentix MIB file archive from the Kentix Website.
3. Take the file **kampro.oidlib** of this archive and copy it into the **snmplibs** folder of the PRTG install directory.
4. Start and login to the PRTG Network Monitor (if not already running).

3. Adding Kentix AlarmManager

1. In the main menu select **Add group** and create a new group e.g. „Server room Monitoring“
2. Open main menu again and select **Add device**.
3. Select the created group „Server room Monitoring“ and continue.

Add Device

Please choose a group to add the new device to

☐ Create a new group

☒ Add device to an existing group

Hauptgruppe

Local probe

Server room Monitoring

Please select a group from the list

Tip: You can create new devices much faster by right clicking a group and choosing "Add Device" from the context menu!

Continue > **Cancel**

4. Enter a name for the AlarmManager and select a suitable icon.
Enter the IP-address of the AlarmManager and continue.

Add Device to Group Serverroom Monitoring

Device Name and Address

Device Name: AlarmManager-PRO

IP Version: ☒ Connect using IPv4
☐ Connect using IPv6

IPv4-Address/DNS Name: 192.168.100.222

Tags:

Device Icon:

Choose a new name to describe the device

Do you want to monitor this device using IPv4 or IPv6?

Enter an DNS name (e.g. "server.mycompany.com") or the IPv4 address (e.g. "10.0.0.15"). Most sensors will inherit this setting and monitor at this address.

Tags are keywords or descriptive terms associated with an object as means of classification.

Select an icon for the device.

Device Type

Sensor Management: ☒ Manual (no auto-discovery)
☐ Automatic device identification (standard, recommended)
☐ Automatic device identification (detailed, may create many sensors)
☐ Automatic sensor creation using specific device template(s)

Choose "manual" if you want to create and manage sensors manually. All other settings will scan your network for available counters and create the corresponding sensors. "Automatic device identification" is mainly based on PING, SNMP and WMI counters. This option is intended for LANs only and is not suitable for WAN connections.

☒ Inherit Credentials for Windows Systems from Serverroom Monitoring (Domain or Computer Name: kentix, Username: s...)

☒ Inherit Credentials for Linux/Solaris/Mac OS (SSH/WBEM) Systems from Serverroom Monitoring (Username: <empty>, Login: 0, For WBEM Use Port...)

☒ Inherit Credentials for VMware/XenServer from Serverroom Monitoring (User: <empty>)

☒ Inherit Credentials for SNMP Devices from Serverroom Monitoring (SNMP Version: V1, SNMP Port: 161, SNMP Timeout...)

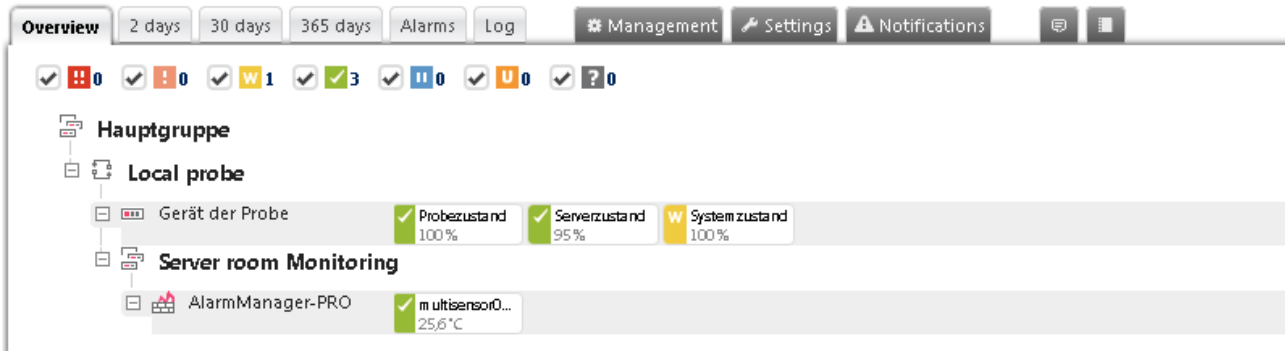
☒ Inherit Access Rights from Serverroom Monitoring

Continue > **Cancel**

4. Adding sensors to the AlarmManager

1. Open **Devices** in the main menu and select **Group view**
2. Click **Add Sensor** next to your added AlarmManager

Group Hauptgruppe



3. Select **Custom Sensors** and **SNMP** as filters and then click on **SNMP Library** down left.

Add Sensor to Device AlarmManager-PRO [192.168.100.222] (Step 1 of 2)

Search directly

Monitor What?

☐ Availability/Uptime

☐ Bandwidth/Traffic

☐ Speed/Performance

☐ CPU Usage

☐ Disk Usage

☐ Memory Usage

☐ Hardware Parameters

☐ Network Infrastructure

☒ Custom Sensors

Target System Type?

☐ Windows

☐ Linux/MacOS

☐ Virtualization OS

☐ File Server

☐ Email Server

☐ SQL Server

Technology Used?

☐ Ping

☒ SNMP

☐ WMI

☐ Performance Counter

☐ HTTP

☐ SSH

☐ Packet Sniffing

☐ NetFlow, sFlow, jFlow

Matching Sensor Types - Filter: Custom Sensors, SNMP - Results: 3

SNMP Library

Monitors a device using SNMP and compiled MIB files ("SNMP Libraries [oidlib]")

Add This

SNMP Custom

Monitors a numerical value returned by a specific OID using SNMP

Add This

SNMP Custom String

Monitors a string returned by a specific OID using SNMP

Add This

4. Select the library-file **kampro.oidlib** and press OK.

5. A list of all possible values will be displayed. Select every value you wish to be monitored here.
Scroll down for more sensors, servers or I/O-ports.
For a first test select **temperature01** from the first MultiSensor and continue.

SNMP Library Specific

Library: C:\Programme\PRTG Network Monitor\snmplibs\kentix.oidlib

Library-OIDs

[Select all items](#) [Deselect all items](#)

	MIB Module	Category	Name
<input type="checkbox"/>	KAM-PRO	state	alarmzone1
<input type="checkbox"/>	KAM-PRO	state	alarmzone2
<input type="checkbox"/>	KAM-PRO	state	alarmzone3
<input type="checkbox"/>	KAM-PRO	state	alarm1
<input checked="" type="checkbox"/>	KAM-PRO	state	alarm2
<input type="checkbox"/>	KAM-PRO	state	serverstate
<input type="checkbox"/>	KAM-PRO	state	sensorcommunication
<input type="checkbox"/>	KAM-PRO	state	extalarm
<input type="checkbox"/>	KAM-PRO	state	extarmed
<input type="checkbox"/>	KAM-PRO	state	extpower
<input type="checkbox"/>	KAM-PRO	state	sabotage
<input type="checkbox"/>	KAM-PRO	state	gsm signal
<input type="checkbox"/>	KAM-PRO	state	gsmok
<input checked="" type="checkbox"/>	KAM-PRO	multisensor01	temperature01
<input type="checkbox"/>	KAM-PRO	multisensor01	humidity01
<input type="checkbox"/>	KAM-PRO	multisensor01	dewpoint01
<input type="checkbox"/>	KAM-PRO	multisensor01	co01

6. After a short moment (default poll-time is set to 60 seconds) the added sensor will show the requested value.

Device AlarmManager-PRO

Overview | 2 days | 30 days | 365 days | Alarms | Log | Settings | Notifications

Details

Device Name: AlarmManager-PRO (10.15.0.253)

Status: OK

Priority: ★★★★★

Parent Probe: Local probe (Local Probe on 127.0.0.1)

Parent Group: Serverroom Monitoring

Sensors by State: ☒ 1 (Total: 1)

Sensors

Pos	Sensor	Status	Message	Graph	Value	Priority
1.	<input checked="" type="checkbox"/> multisensor01/temperature01	Up	OK	tem perature01	25.8°C	★★★★★

[Add Sensor](#)

5. Configuring notification via AlarmManager's SMS Gateway

1. In the main menu select **Setup | System Administration | Notification Delivery**.
2. Scroll down to **SMS Delivery** Section.
3. As **Configuration Mode** select „Enter a custom URL for a provider not listed“.
4. Enter a custom URL in the following format:

`http://AlarmManager-IP/sendmsg?user=myUser&password=myPassword&to=%SMSNUMBER&text=%SMSTEXT`

- Replace **AlarmManager-IP** by the AlarmManagers IP address
 - Replace **myUser** by a username configured in the AlarmManager.
 - Replace **myPassword** by the password for your AlarmManager web interface
The user needs a configured Web User Password to be able to send SMS.
 - Note: PRTG will replace %SMSNUMBER and %SMSTEXT automatically.
5. In the **Maximum Length of Text** field, enter zero (0) to not limit the length of text messages (the AlarmManager will limit the message to 400 characters, though), or enter another value, so PRTG will cut off text messages before they're forwarded (e.g. **160** to only send single text messages without concatenation, discarding the remaining characters).
 6. **Save** your settings

SMS Delivery

Configuration Mode

☐ Select a SMS provider from a list of providers

☒ Enter a custom URL for a provider not listed

Custom URL

http://192.168.100.223/sendmsg?user=myUser&password=myPassword

Maximum Length of text

!

Choose whether you want to select an SMS provider from a list or enter a custom URL.

Enter the URL string for your SMS provider. Use %SMSNUMBER and %SMSTEXT as placeholders for the recipient phone number and the notification message.

Some SMS Providers will not allow SMS messages exceeding a certain amount of characters. PRTG will restrict the number of characters according to the length specified in this field. A value of 0 means the SMS is sent at its full length.

Save

Cancel

Copy Settings To Clipboard

7. In the main menu select **Setup | Account Settings | Notifications**. Click on Add new notification:

Activate the **Send SMS/Pager Message** section.

In the **Recipient Number** field, enter the number the SMS text message will be sent to.

Do not enter the number with a leading plus sign, but enter it either in local format without country designation, or use an international format without plus sign (e.g. with leading **00** for European countries).

Enter a text as message notification and press **save**.

<input type="checkbox"/>	Add Entry to Event Log	
<input type="checkbox"/>	Send Syslog Message	
<input type="checkbox"/>	Send SNMP Trap	
<input checked="" type="checkbox"/>	Send SMS/Pager Message	
Recipient Number <input type="text" value="00491712345678"/> !		Format depends on SMS provider. Usual rules are: Start phone numbers with "+", followed by the country code. Do not use spaces in phone numbers. Use "," to separate multiple numbers. The message to be sent (placeholders allowed). Notes: Enter a single * character (and nothing else) if you want to reset this field to the system default.
Message <input type="text" value="Temperature too high. Check Sensor values,"/> !		
<input type="checkbox"/>	Execute HTTP Action	
<input type="checkbox"/>	Execute Program	
<input type="checkbox"/>	Send Amazon Simple Notification Service Message	
<div> <input type="button" value="Save"/> <input type="button" value="Cancel"/> </div>		

8. You can test your notification by opening **Notifications** under **Setup | Accounts Settings**. Find your new notification and click the **Test** link.

PRTG will send an http call to the AlarmManager containing the text entered in the message field.

You can check a successful sending in the PRTG Log Menu and also in the AlarmManagers Log file list.

6. Activating SMS sending for a sensor value alarm

1. In the main menu select **Sensors | All** and click on the sensor for temperature monitoring.

Sensors

Sensors				
Probe Group Device	Sensor	Status	Message	Last Value
Local probe (Local Probe on 127.0...)	Probezustand	Up	OK	100 %
Gerät der Probe	Serverzustand	Up	OK	83 %
Local probe (Local Probe on 127.0...)	Systemzustand	Warning	62 % (Prozessorlast) is above the warning limit of 50 %. CPU load on the probe system is over 50%, measurements may be incorrect	100 %
Gerät der Probe	multisensor01/temperature01	Up	OK	25,9 °C
Local probe (Local Probe on 127.0...)				
Server room Monitoring				
AlarmManager-PRO				

2. Open the **Notifications** tab, enter a maximum temperature value for the alarming and set a minimum time how long this value has to be exceeded to send a notification.
Choose the notification type on the right and press save.

Sensor multisensor01/temperature01

Overview Live Data 2 days 30 days 365 days Historic Data Log Settings **Notifications** Channels

Triggers that can be inherited from parent object(s)

Trigger Inheritance ☒ Inherit trigger(s) from parent object(s)
☐ Only use triggers defined for this object

Object Triggers

Type	Notifications	Actions
Threshold Trigger	When temperature01 (°C) channel is Above 30 for at least 1 seconds perform SMS Notification	Save Cancel
	When condition clears perform no notification	

Add State Trigger Add Threshold Trigger Add Change Trigger

Note: Please enter channel values as bytes or seconds.

3. Test your notification by setting the maximum temperature below room temperature. You can check the send state of your notification in the PRTG Log and also the logbook of the Kentix AlarmManager.