

SVAN 977

Advanced alarms



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DESCRIPTION OF ADVANCED ALARMS IN SVAN 977

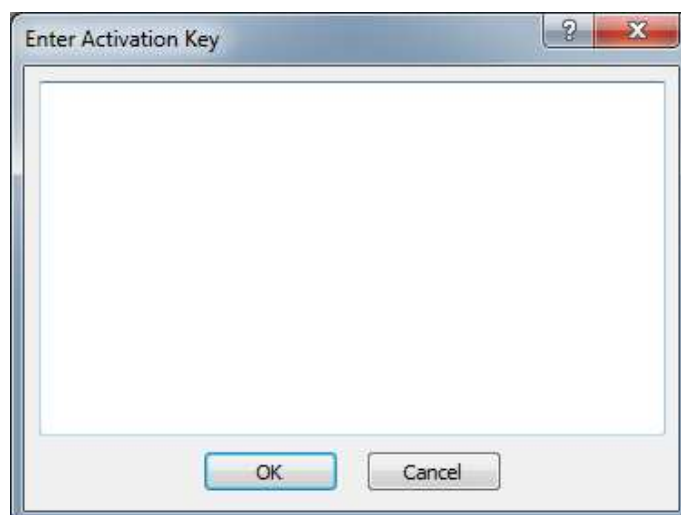
1. GENERAL INFORMATION

The advanced alarm functionality of the SVAN 977 allows for alarms to be triggered in the course of taking measurements alerting different users depending on the time and the day. These alarms can be triggered by different parameters such as LEQ or the so-called sliding LEQ (moving LEQ window over a time axis).

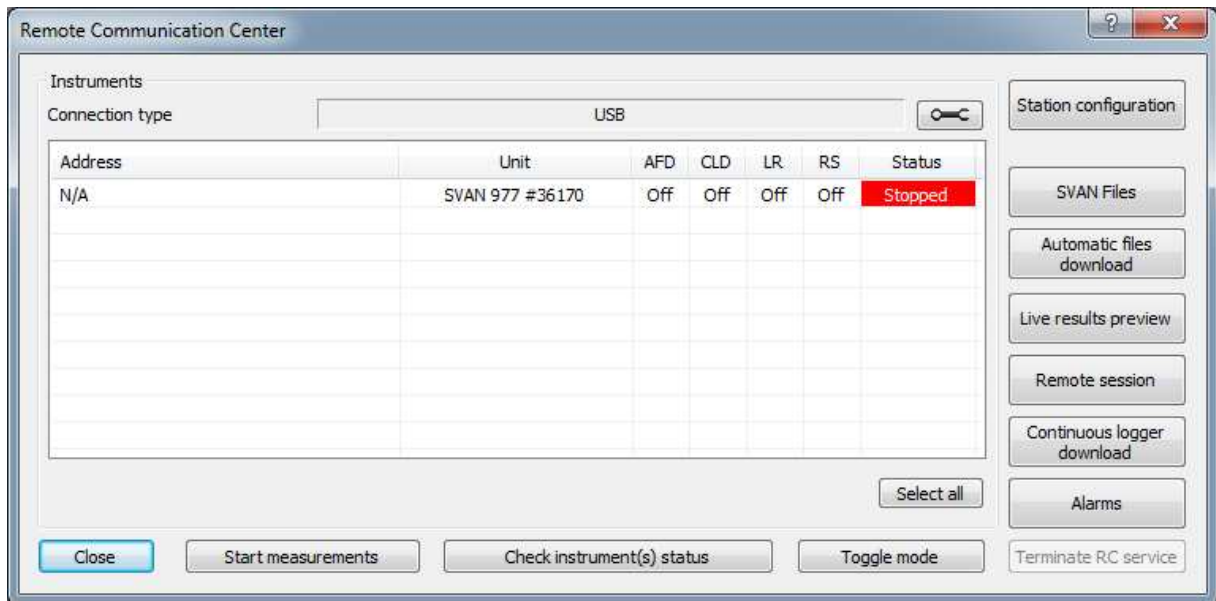
The alarm functionality is available with the SvanPC++ Remote Communication module and it can automatically send e-mails, or SMS text messages as well as record audio.

2. CONFIGURATION

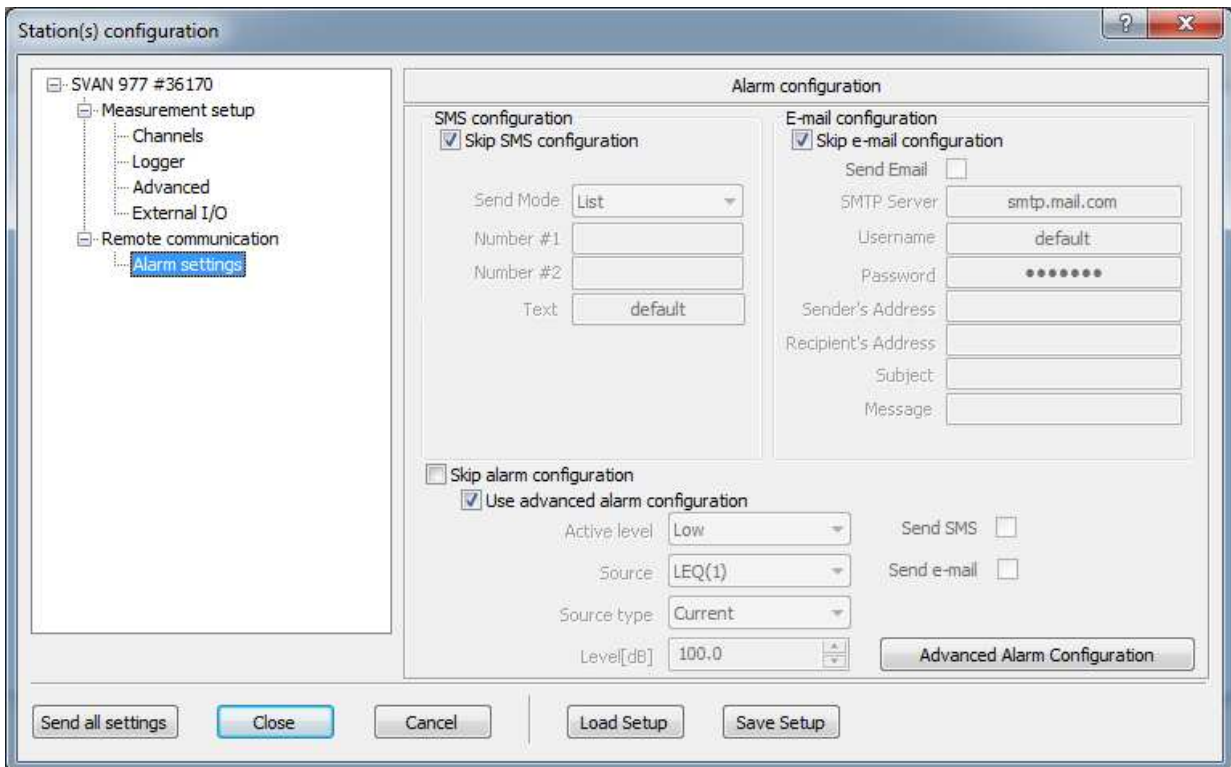
The first step is to activate the Remote Communication module. Please ask your distributor for the activation code. To enter the code, you should go to Help/Enter Activation Keys and paste it into the window pictured below.



When the RC module has been activated you should open the Remote Communication Center. You can find it in the SVAN section. The window is shown below.

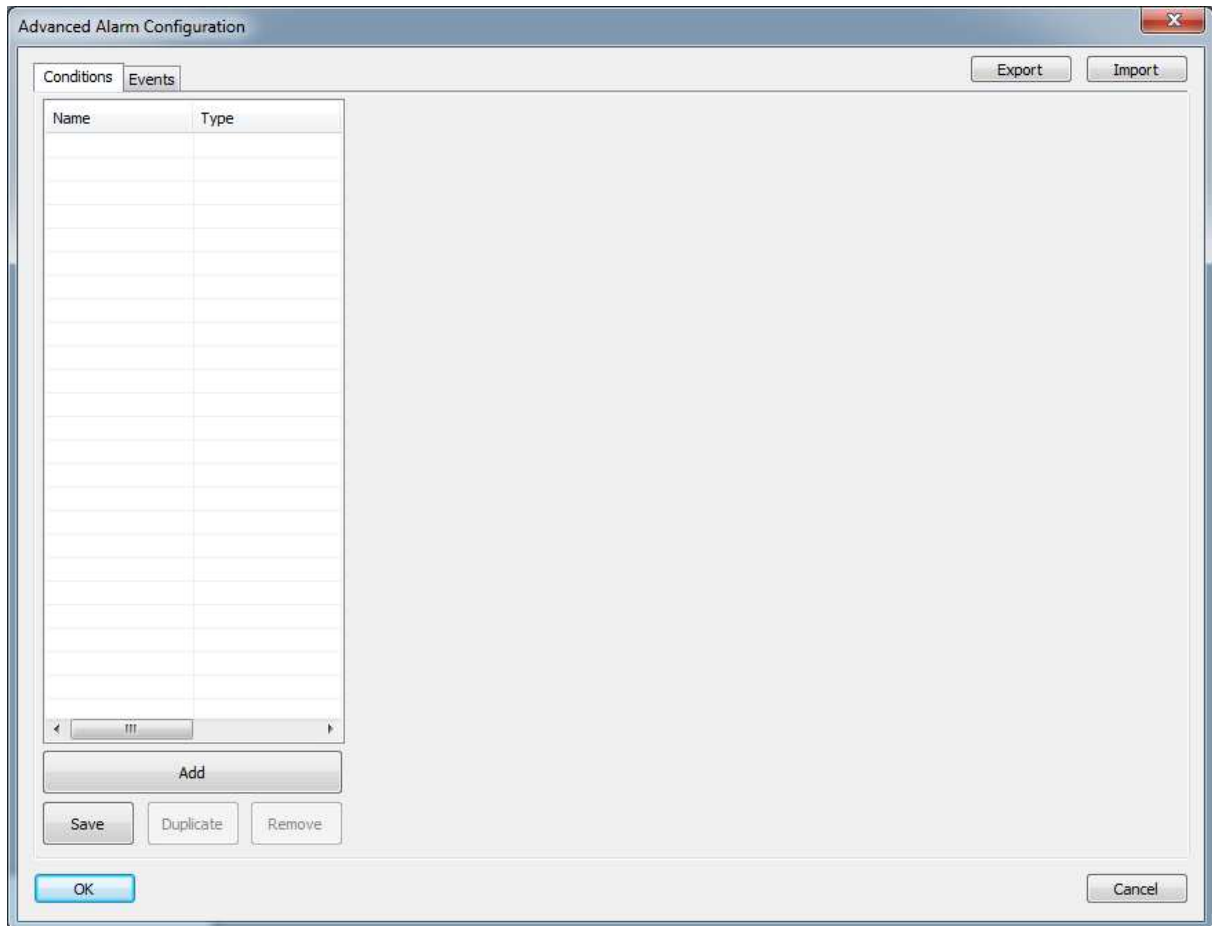


The alarm settings are available in the Station configuration window and can be accessed by clicking on the Advanced Alarm Configuration button (the 'Use advanced alarm configuration' option needs to be selected):

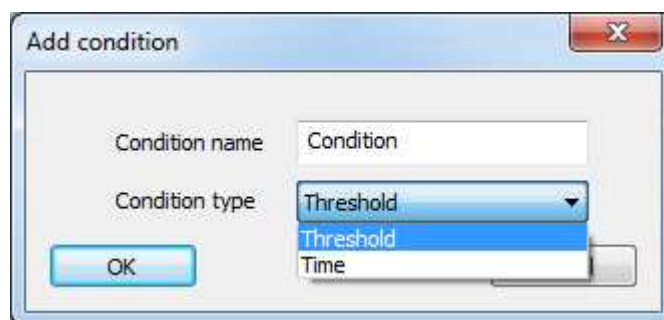


Clicking on the Advanced Alarm Configuration opens a window where the user can define conditions and events.

To create a new condition click 'Add'.

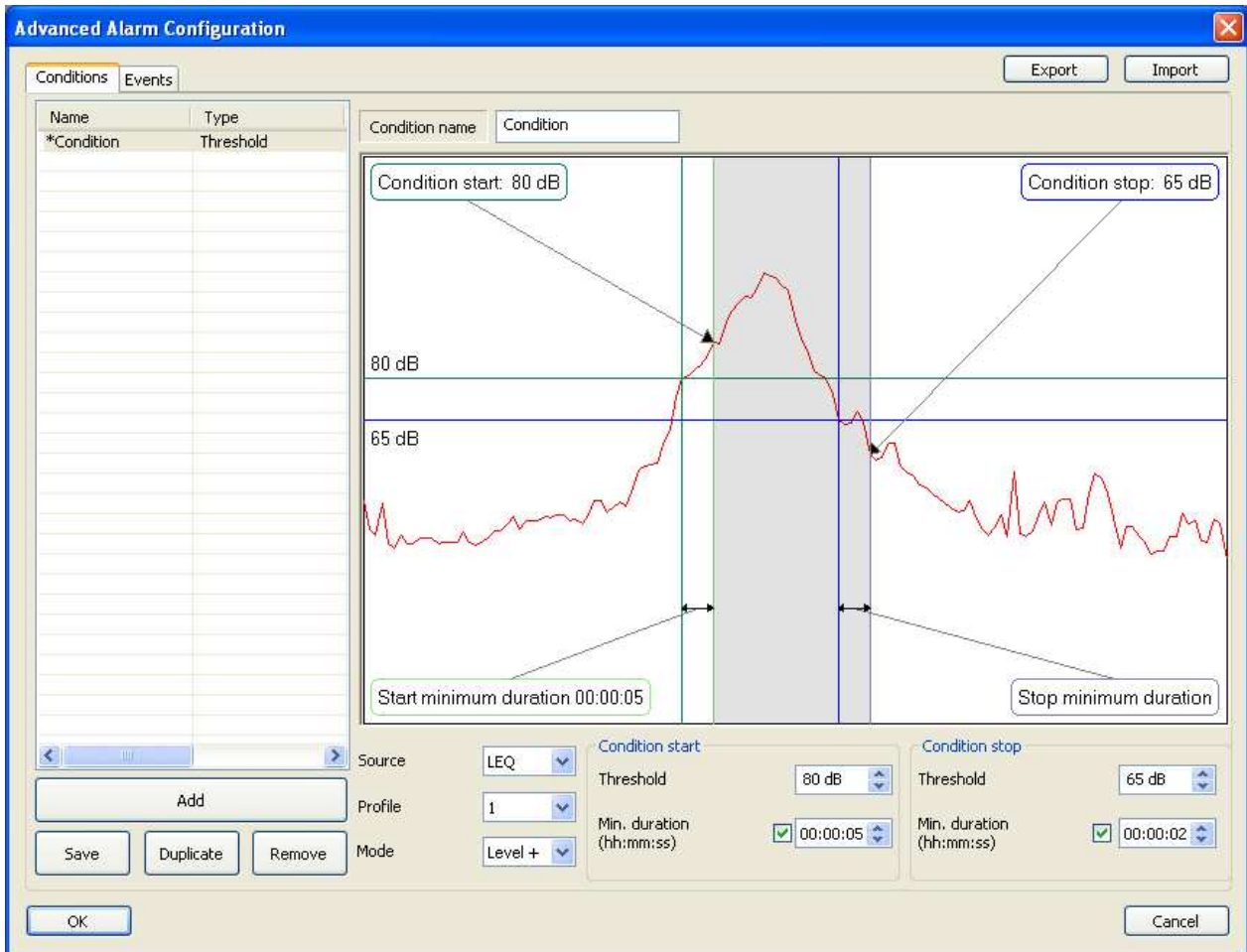


A condition enables easier management of various conditions. Two types of conditions are available: threshold or time.

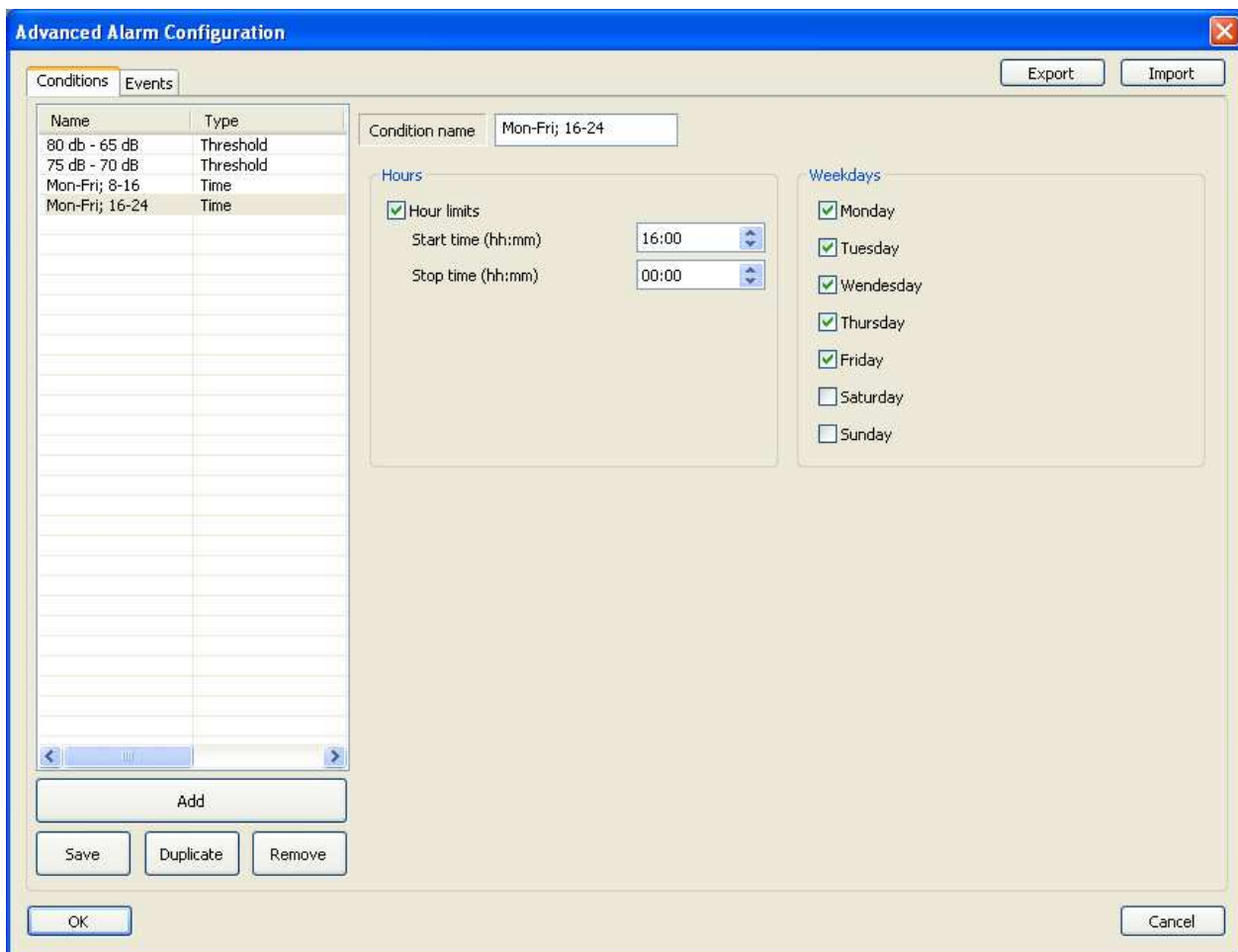


A threshold condition is based on 1s measurement values such as LEQ, PEAK, MAX, MIN and sliding LEQ for windows of 15 or 60 minutes for the selected Profile. Two modes are available: Level+ and Level-. The threshold value defines the moment of the start or end of the Condition. Additionally the user can set the minimum duration time, which delays the start/end of the Condition.

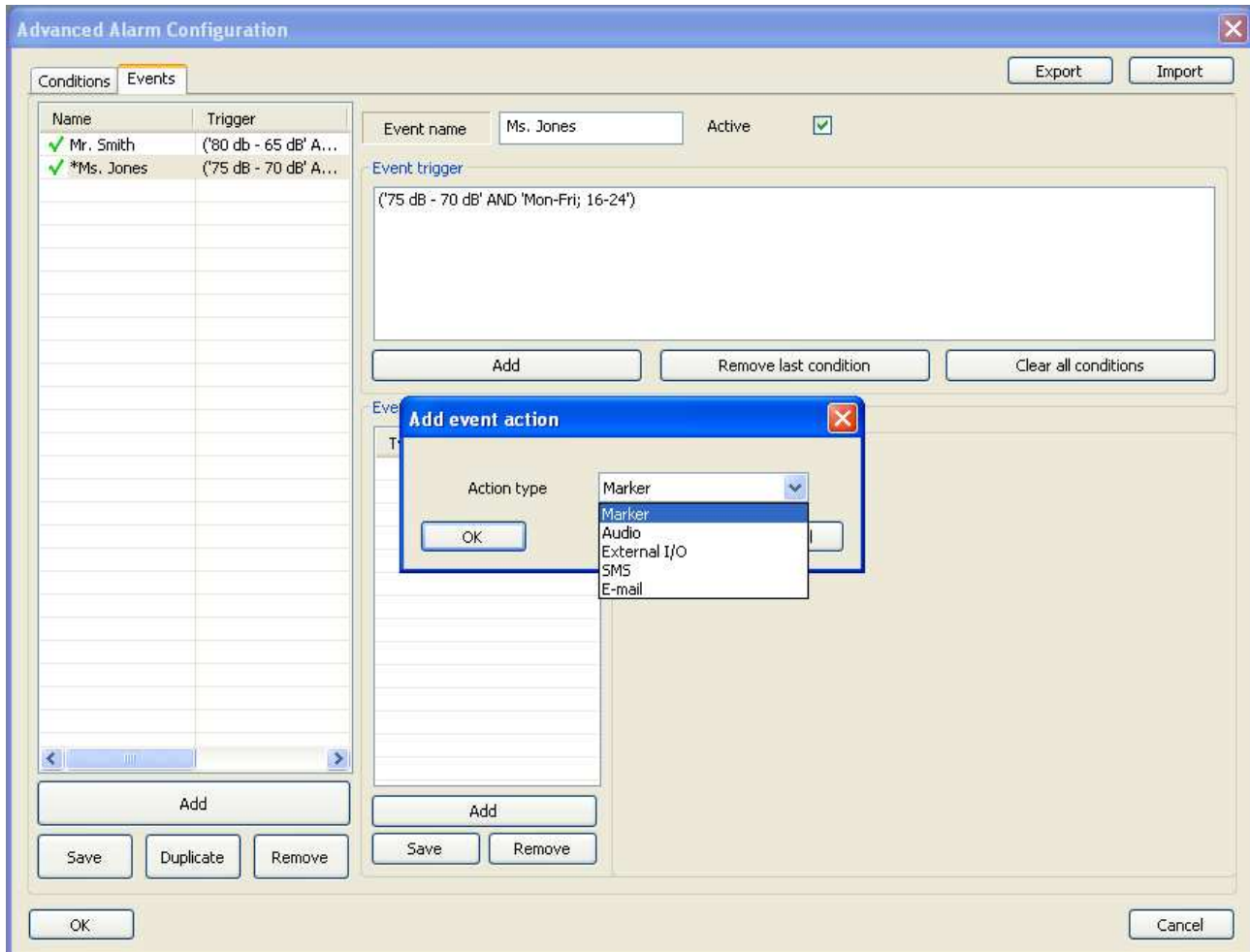
The period of time when the Condition is met is marked in grey on a graph.



The Condition Time allows for the time and days when the monitoring is performed to be defined:

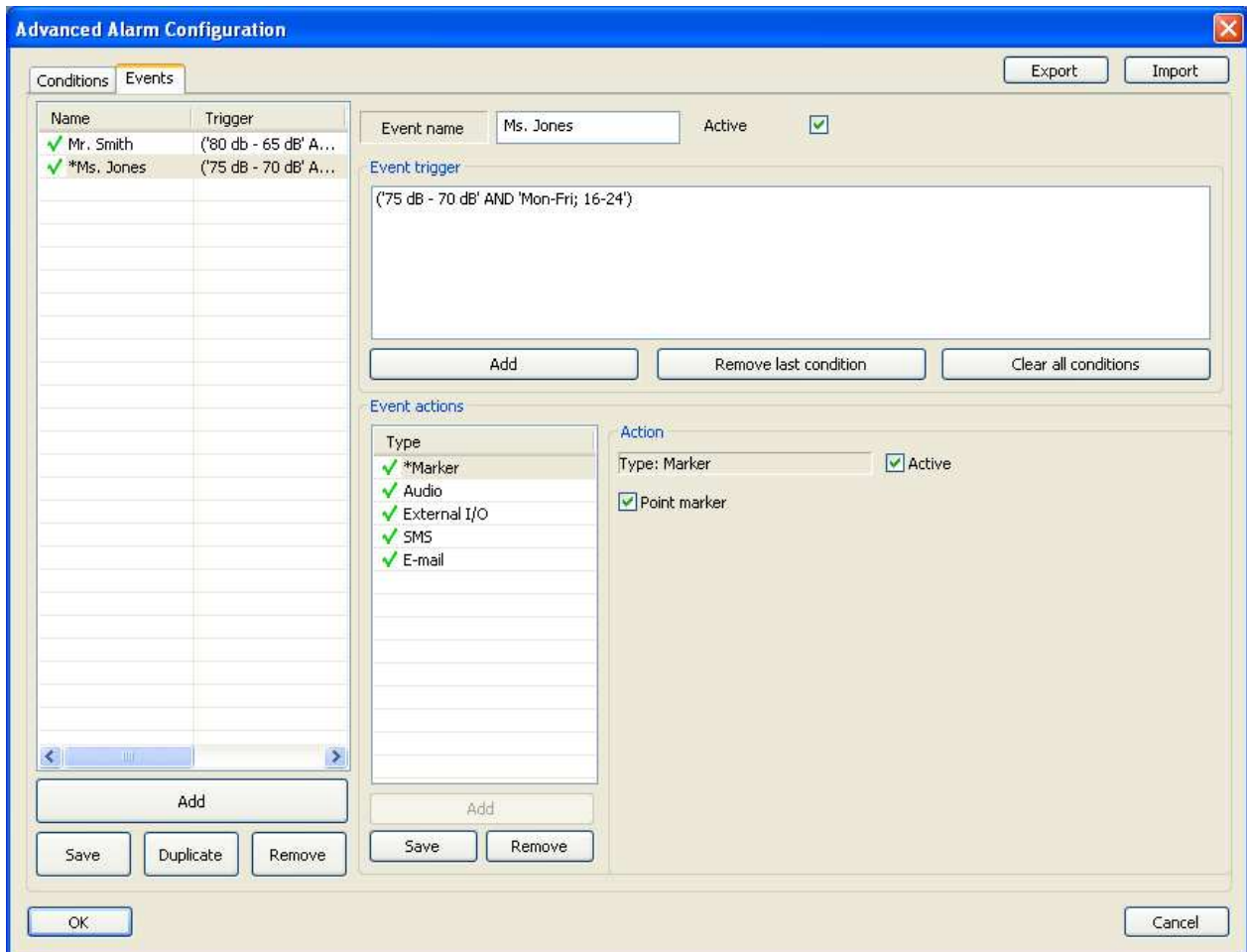


The next step after defining the conditions is to create Events. Events can be based on single or multiple conditions, and a combination of Threshold and Time conditions. For each event a different type of action can be set: marker, audio, external I/O, SMS text message, or e-mail.

**NOTES:**

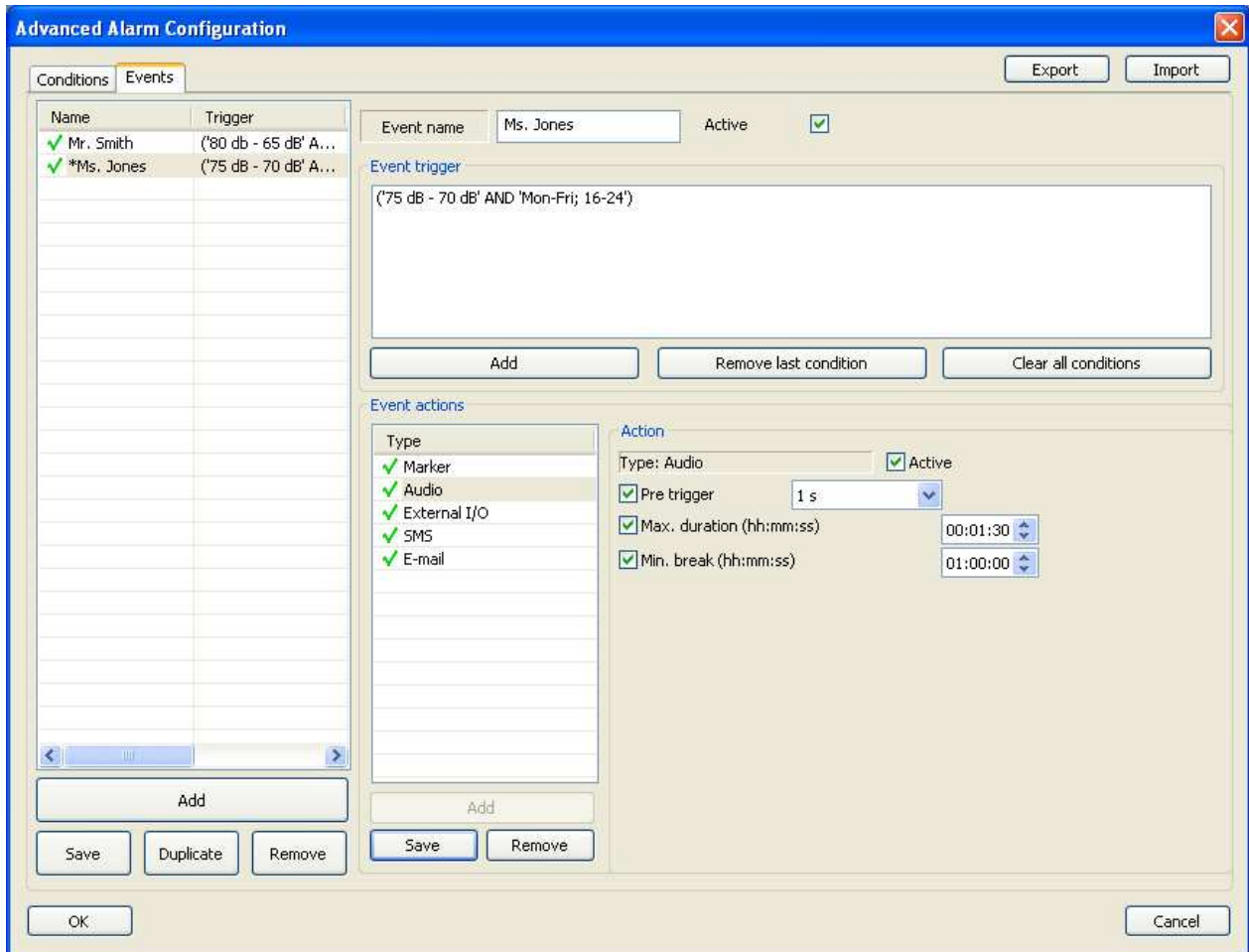
- To configure Audio recordings the additional option SV 977_15 must be enabled in the instrument.
- To configure SMStext messaging requires a GPRS modem to be connected with an active SIM card.
- To configure e-mail alerts requires a GPRS modem to be connected with an active SIM card and internet access.

The screen pictured below presents an example of the configuration of a marker action. If Point marker is selected there will be a single event marked in the time history. Otherwise the time history graph will show a block marker between the start of the event and its end. After each event is created the 'Save' button must be pressed.

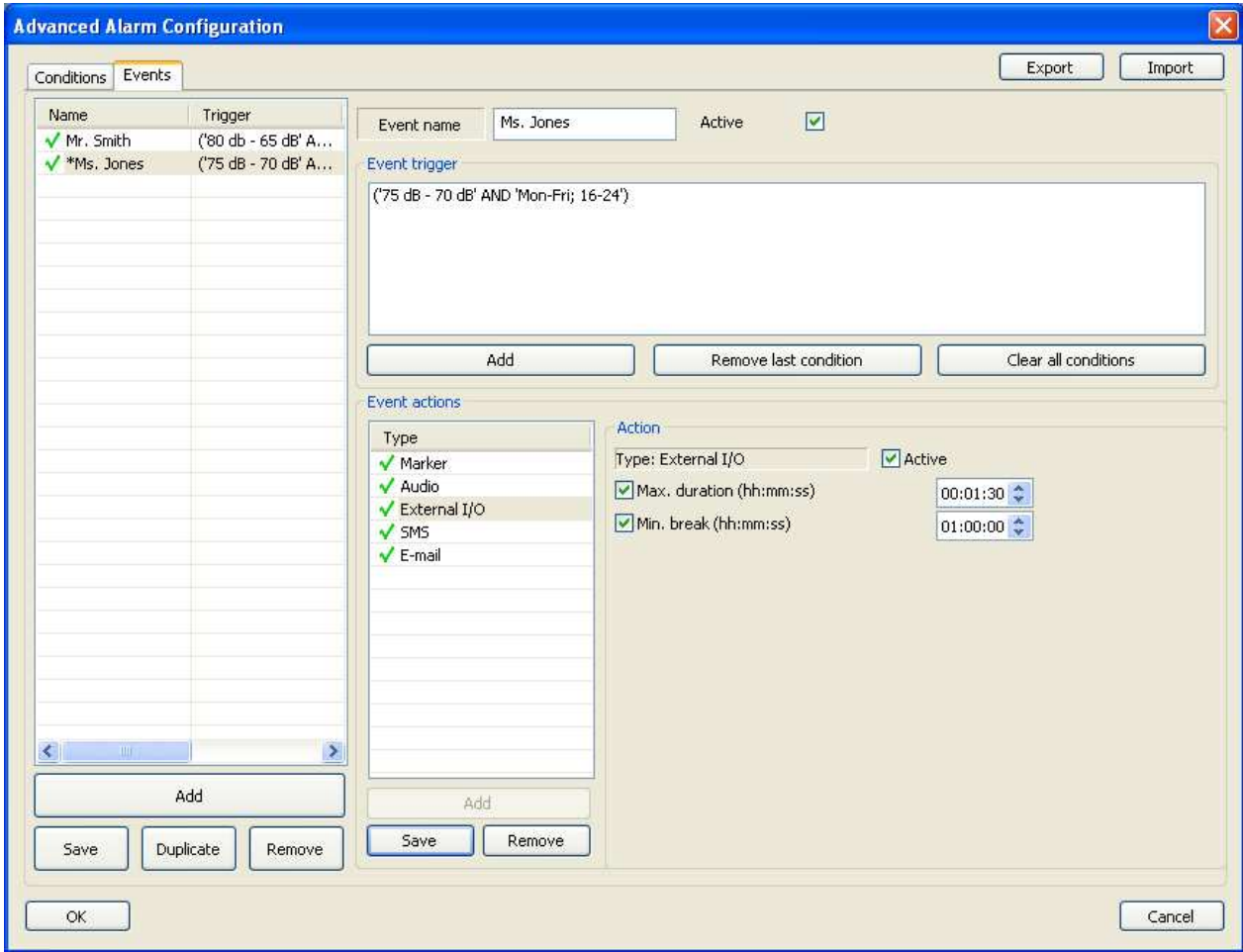


The screen pictured below presents an example of the configuration of an audio action. The pretrigger option allows samples to be recorded before an event starts. The duration of pretrigger depends on current sampling settings within the audio settings of SVAN 977.

Max. duration will limit the duration of the event and Min. break represents the minimum time between two consecutive events required before the next action can start.



The screen pictured below presents an example of the configuration of an External I/O action. Max. duration will limit the duration of the event and Min. break represents the minimum time between two consecutive events required before the next action can start.



The screen pictured below presents an example of the configuration of an SMS text message action. It is possible to set a number of people (separated by semicolons) to receive the message as well as its content. Each message can be sent either at the start of the event or at its end. Additionally, a delay before the SMS text message is sent can be specified. Min. break represents the minimum time between two consecutive events required before the next action can start.

The screenshot shows the 'Advanced Alarm Configuration' dialog box with the 'Events' tab selected. The 'Event name' is 'Ms. Jones' and it is active. The 'Event trigger' is set to '($'75\text{ dB} - 70\text{ dB}'\text{ AND 'Mon-Fri; 16-24}'$'. The 'Event actions' list includes 'SMS' which is selected. The 'Action' configuration shows 'Type: SMS' is active, the 'Recipient number(s)*' is '123456789', and the 'Message' is 'Check this out!'. The 'Send SMS at' options are 'Event start' (selected), 'Event end', and 'Send after delay (hh:mm:ss)' (checked with a value of 00:00:35). The 'Min. break (hh:mm:ss)' is 00:00:00. A 'Test' button is visible. A note at the bottom states: '* you can enter multiple recipients by separating each by semi-colon (;)'. The dialog also features 'Export' and 'Import' buttons at the top right, and 'OK' and 'Cancel' buttons at the bottom.

Name	Trigger
✓ Mr. Smith	($'80\text{ dB} - 65\text{ dB}'\text{ A...}$
✓ *Ms. Jones	($'75\text{ dB} - 70\text{ dB}'\text{ A...}$

Event name: Ms. Jones Active

Event trigger: ($'75\text{ dB} - 70\text{ dB}'\text{ AND 'Mon-Fri; 16-24}'$)

Event actions:

- ✓ Marker
- ✓ Audio
- ✓ External I/O
- ✓ *SMS
- ✓ E-mail

Action configuration:

Type: SMS Active

Recipient number(s)*: 123456789

Message: Check this out!

Send SMS at:

- Event start
- Event end
- Send after delay (hh:mm:ss): 00:00:35
- Min. break (hh:mm:ss): 00:00:00

* you can enter multiple recipients by separating each by semi-colon (;)

The screen pictured below presents an example of the configuration of an e-mail action. Similarly to an SMS text message, an e-mail action allows an e-mail address to be entered, a message subject as well as its content. Each e-mail can be sent at the start of an event or at its end. Additionally a delay before the message is sent can be specified. Min. break is a minimum time between two consecutive events required for the next action to start.

The screenshot shows the 'Advanced Alarm Configuration' dialog box with the 'Events' tab selected. The 'Conditions' list on the left contains two entries: 'Mr. Smith' with trigger '(80 db - 65 dB A...)' and '*Ms. Jones' with trigger '(75 dB - 70 dB A...)', both marked with a green checkmark. The 'Event name' is 'Ms. Jones' and it is active. The 'Event trigger' is '(75 dB - 70 dB AND Mon-Fri; 16-24)'. Under 'Event actions', 'E-mail' is selected. The 'Action' section is configured for an E-mail, which is active. The recipient address is 'xxx@mail.com', the subject is 'Alarm', and the message is 'Check this out!'. The 'Send e-mail at' options are 'Event start' (selected), 'Event end', and 'Send after delay (hh:mm:ss)' (checked with a value of 00:00:05). The 'Min. break (hh:mm:ss)' is 00:00:00. A 'Test' button is visible. A note at the bottom states: '* you can enter multiple recipients by separating each by semi-colon (;)'. The dialog has 'Export' and 'Import' buttons at the top right, and 'OK' and 'Cancel' buttons at the bottom.

Name	Trigger
✓ Mr. Smith	('80 db - 65 dB A...
✓ *Ms. Jones	('75 dB - 70 dB A...

Event name: Ms. Jones Active:

Event trigger: ('75 dB - 70 dB AND Mon-Fri; 16-24')

Event actions:

- Type: Marker
- Audio
- External I/O
- SMS
- E-mail

Action: Type: E-mail Active

Recipient address(es)*: xxx@mail.com

Subject: Alarm

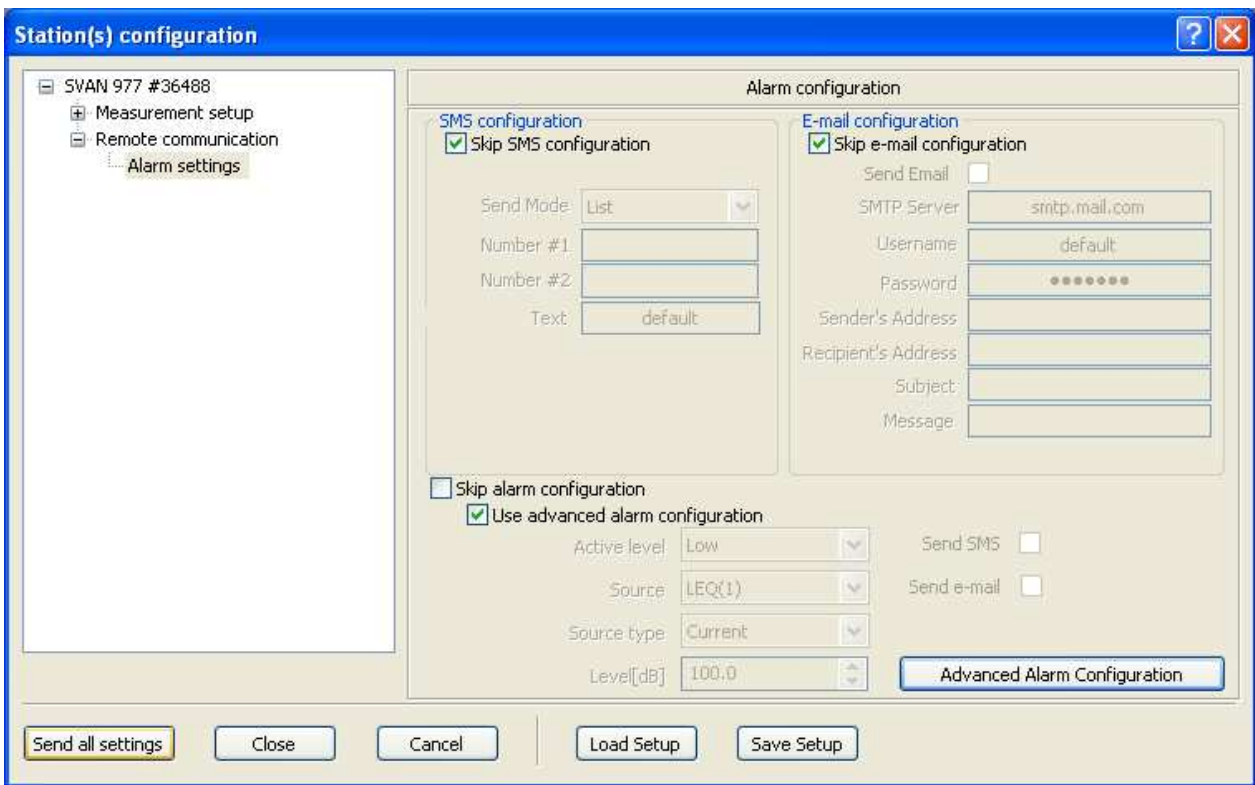
Message: Check this out!

Send e-mail at:

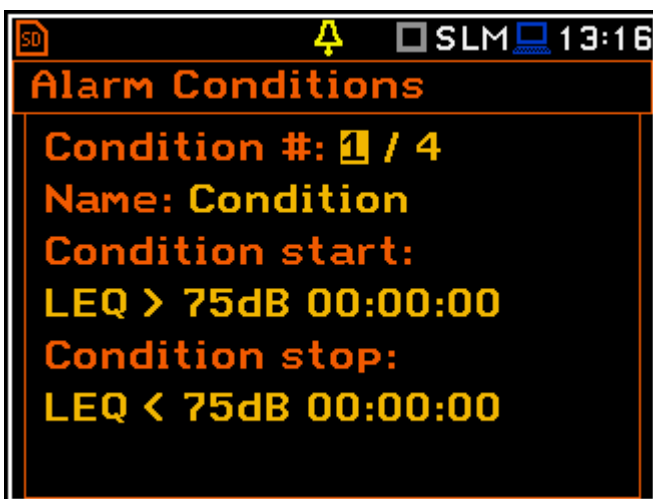
- Event start
- Event end
- Send after delay (hh:mm:ss): 00:00:05
- Min. break (hh:mm:ss): 00:00:00

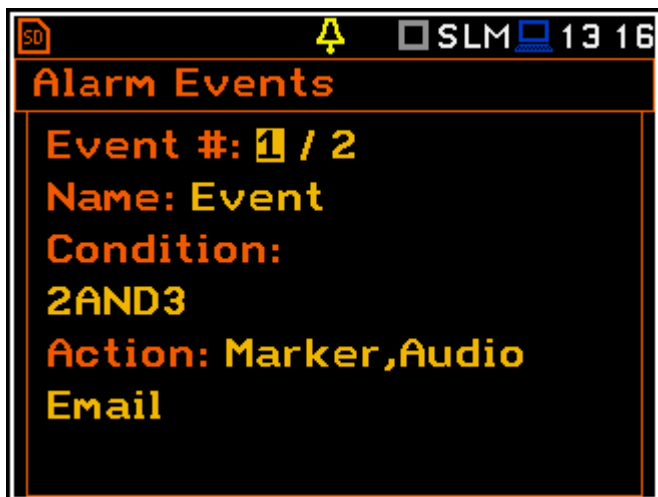
* you can enter multiple recipients by separating each by semi-colon (;)

Clicking the 'OK' closes the alarms window and opens 'Station(s) configuration' window:



Click the 'Send all settings' button to activate the configurations in the instrument. SVAN 977 will display the alarm settings and additionally the modes activated can be displayed by pressing Alt+Up / Down:





Any alarms activated will also be displayed in the 'Alarm actions' display.

