Configuring and Testing Audio Alarms Functionality in Visual MIBrowser Pro

Product Brief

NuDesign Technologies, Inc.

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1. Document History

Date	Rev.	Remarks	Author
April 24, 2013	A01	Created	Shehzad Haq
April 26, 2013	A02	Added information about MIBrowser Audio Alarms functionality	Shehzad Haq
Oct 18, 2017	A04	Minor edits	NDT

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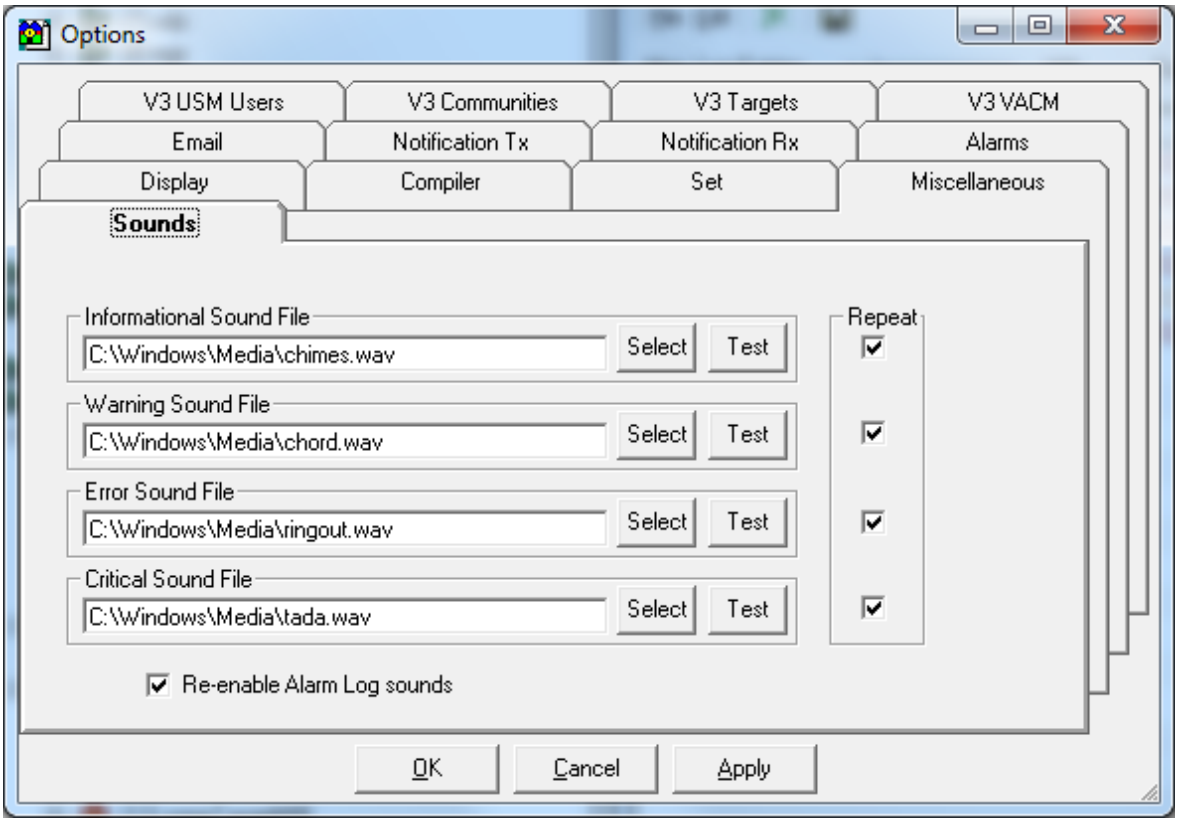
2. Introduction

This document shows how to configure and test Visual MIBrowser Pro for receiving traps/ notifications and associating audio alarms with them. This document deals primarily with configuring and associating audio alarms with the reception of SNMP traps/ notifications. MIBrowser Pro can associate audio alarms with other events as well.

3. Configuration of Audio Alarms

1) The first step is to choose and associate a sound with each class of alarm. Visual MIBrowser Pro provides for four classes, namely, Informational, Warning, Error and Critical.

Choosing and associating a sound file with an alarm can be done in Tools/Options/Sounds.



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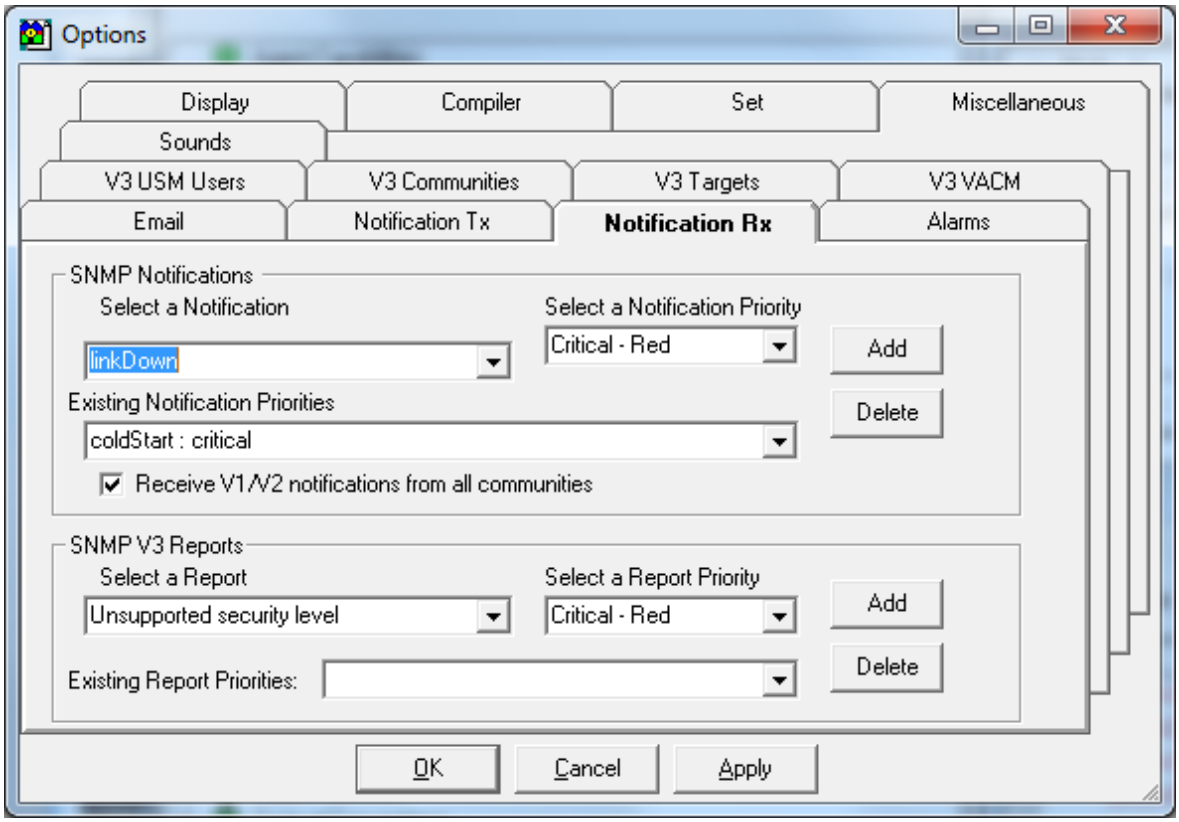
2) The next step is to associate traps/notifications with alarm classes. This can be done in Options/Tools/NotificationRx .



Notifications can be selected from the drop down listbox 'Select a Notification' and then associated with a 'Notification Priority' by pressing the 'Add' button. In the picture above 'coldStart' notification has been assigned to 'Critical' Alarm class.

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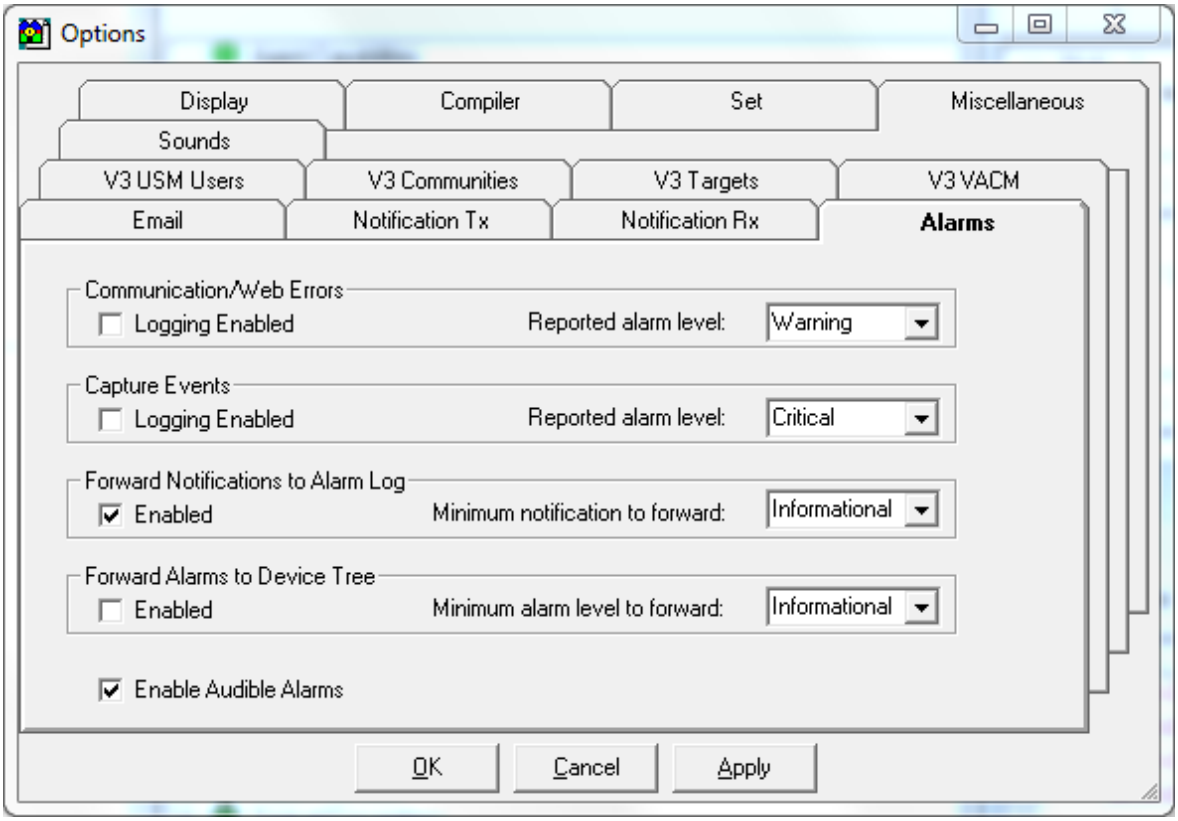
3) The last step in configuration is to enable Visual MIBrowser's Notification Receiver to forward notifications/traps to the Alarm log.



Please note that the above three steps can be performed in any order.

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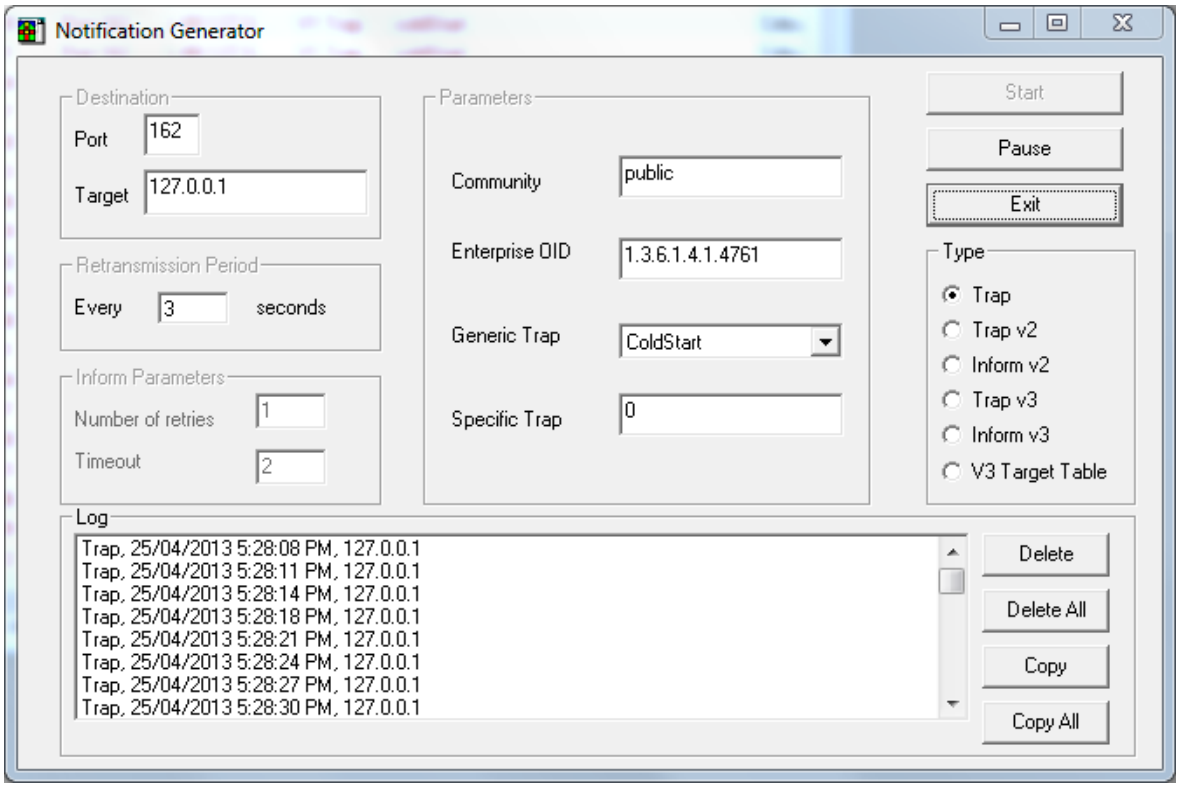
4. Testing the Audio Alarms

To test the audio alarms, Visual MIBrowser's Notification Transmitter can be used.

1) Start NotificationRx and NotificationTx from MIBrowser toolbar

Enable Notification Generator to start sending coldStart notifications on the loopback address.



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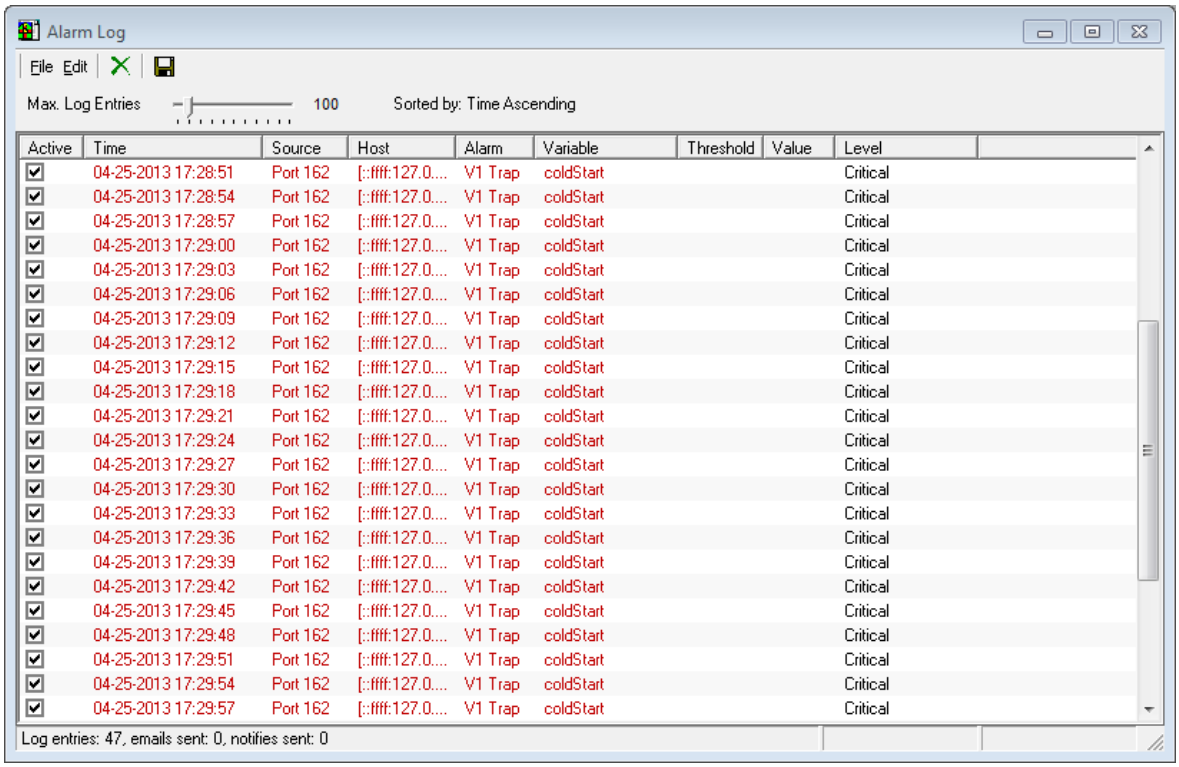
2) Notification Receiver will start receiving traps/notifications and forward them to the Alarm Log. Every time an alarm gets logged in the Alarm log, an audio will sound and the audio alarm will keep playing (depending on setting) until it is cleared in the Alarm Log.



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5. Additional Audio Functionality

The previous sections show how to configure and test basic audio alarms functionality. Visual MIBrowser Pro provides additional features describe below

- If two alarms are received on two different levels (and both have repeat set), only the higher "priority" alarm will sound. If the higher one is cleared then the alarm sound will be revert to the lesser level sound. Both alarms will be represented in the Alarm Log. To test this, clear the higher level alarm in the Alarm Log and the lower level sound should be heard.

- Sounds play once if repeat is not set. To test un-check one of the audible alarm levels sounds. Send a trap associated with that alarm level. It should sound once but the item in the Alarm Log will remain checked.

- If two alarms are received on two different levels (only the higher has repeat set), only the higher "priority" alarm will sound. If the higher one is cleared then no sound will be played. Both alarms will be represented in the Alarm Log. To test this, clear the higher level alarm in the Alarm Log no sound should be heard.

- Alarm level colour indicators propagate through the Device tree.

- The current highest alarm level is represented by the icon in the Device tab.

- When an alarm is unacknowledged, you can right mouse click on the icon in the Device tab to go to the Clear the current alarm. To test, send an alarm from Trap Tx and stop. Right click on the Device Tab icon and select "Clear Status". Icon colour should turn green and the audible alarm should stop.

- Alarms can be re-enabled from the Alarm Log by re-checking the item.

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The benefits of deploying NuDesign's management software technologies are reliable, low risk, quick-to-market and well supported solutions. The highly automated code generation tools with associated applications and tutorials enable fast prototyping and development. They also facilitate organization and design process for multiple target environments.

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