From: http://www.aquilatech.com/alertinterface

Alert Interface Homepage

Product description

This device connects a receiver, such as an "All Hazards" warning receiver (an Oregon Scientific WR196T), to an Asterisk PBX. The intended purpose is to allow the warning messages to be broadcast over the Asterisk paging system.

I take the audio out into a design of my own. This board detects the audio from the radio, then it connects to a ZAP channel on the trixbox and feeds the audio in like it was an extension. After the alert is over, the audio stops, and 2 seconds later, the board disconnects the channel.

There are 3 connections.

1. Audio input. 2.5 mm jack. Speaker level (not headphone level).
2. Power input. 2.1 mm coaxial. Pin is positive. 12 - 16 vdc. (Power cube not included).
3. RJ-11 connection to the PBX.

Operation:

1. Define an extension on the PBX that is connected to the ZAP port you intend to use. In my case, I called it extension "Alert 981".

    1. Give it a custom context. I used "custom-ebs-alert".
    2. Set "immediate" to "yes".
2. Edit "extensions_custom.conf".

1. Add a new context at the end of the file. This will perform the Page when the zap channel goes off hook. It will record the page for future replay.

```
[custom-ebs-alert]
exten => s,1,Noop(EBS Alert)
exten => s,n,Answer()
exten => s,n,Set(_FORCE_PAGE=0)
exten => s,n,Macro(user-callerid,)
exten => s,n,Set(_AMPUSER=${AMPUSER})
exten => s,n,Set(CALLFILENAME=/var/spool/asterisk/monitor/Alert-${STRFTIME
(${EPOCH},,%Y%m%d-%H%M%S)})
exten => s,n,Set(DB(alerts/time)=${EPOCH})
exten => s,n,Set(DB(alerts/file)=${CALLFILENAME})
exten => s,n,Monitor(wav,${CALLFILENAME})
exten => s,n,Page(LOCAL/PAGE202@ext-paging)
exten => h,1,Noop(EBS Alert - hungup)
exten => h,n,System(rm ${CALLFILENAME}-out.wav -f)
```

3. Under [from-internal-custom], I added an extension 981 so that I could call-back and replay an alert if I need to hear it again. Call 981, it will announce the time of the last alert, then play the alert to you.

```
;Playback the last EBS Alert message
exten => 981,1,Noop(EBS Alert - replay message)
exten => 981,n,Answer
exten => 981,n,Wait(1)
exten => 981,n,SayUnixTime(${DB(alerts/time)},,Q\'at\'IMp)
exten => 981,n,Playback(${DB(alerts/file)}-in)
exten => 981,n,Hangup
```

- Connect the board.

1. Connect a 12vdc power supply to the board.
2. Connect a speaker-level source the audio jack.
3. Connect the board to the PBX extension.

- Testing.

1. Turn on the radio so that audio plays to the board. The LED should light. Turn off audio, the LED to turn off in 3 seconds.
2. With the audio on, the PBX should have activated the paging group you defined. Set the volume level on the radio so that the page is a comfortable level.

3. Repeat testing.