

ESCIENT

®

ADDING INTERNET RADIO STATIONS

How to add your own Internet radio stations to FireBall's Radio Guide

PRODUCTS FOR THE
**HUMAN
INTERFACE.**

Adding New Internet Radio Stations

Your FireBall is able to deliver a variety of Internet radio station programming through its connection to the Internet. Escient's OpenGlobe Internet radio service provides a large variety of stations including Radio Free Virgin and various other stations from across the country. These stations can be selected for playback in the Radio Guide view.

In order to increase your listening enjoyment, FireBall also allows you to add new Internet Radio to the Radio Guide for playback. The FireBall will tune stations that broadcast in the Microsoft WMA V2, V7 and V8 formats at bit rates up to 192kpbs. A complete list of the supported bit rates is listed in Appendix A. The procedure below will give you some examples of how to find new stations and add them to the Radio Guide.

Locate New Stations

Internet Radio is a fairly new form of radio broadcasting which all terrestrial radio stations have not yet adopted. Please keep in mind that the station you are interested in may not broadcast over the Internet, or it may use a proprietary interface only accessible from a PC. You can locate Internet radio stations using various Internet Radio web sites that can be accessed using the Internet Browser on a PC. One example is Radio-Locator. Simply, go to <http://www.radio-locator.com> and type in the station call letters, zip code, State code, Genre, or Country in the fields provided and press **GO**. The radio locator will return information about the station or the area that you requested. Click on the (i) icon in order to find the detailed information about the specific station. From the Information page, the radio locator will list an Internet address for the Audio Stream location. If this address ends with a **.asx** or **.asf** file extension, then the FireBall may be able to playback this station.

Examples:

WSM-AM 650 kHz
Nashville, Tennessee
"America's Country Music Station"
Audio Feed: <mms://mmslb.eonstreams.com/wsmam1.asf>

KFOG-FM 104.5 MHz
San Francisco, California
"K-Fog Worldclassrock 104.5"
Audio Feed: http://www.streamaudio.com/stations/asx/kfog_fm.asx

Add The Stations To The Guide

While in the Radio mode, press the Menu button on the remote, and select "New Station" from the list of options. When prompted as to what station you would like to add, select "Internet". Using the remote control or a USB keyboard, type in the information about the station in the fields provided. The Audio Feed information goes into the field titled "URL". Once completed, press the record button to save this information. Your new radio station is now available to select in the Radio Guide!

Listen to the New Stations

Select the station to playback while in the Radio Guide by either pressing the Select button, or the Play button while the station is highlighted. The station will begin playback by first locating the station, connecting to the server, buffering the data, then playing. If the station is not available, a message will be displayed on the screen indicating that the "Station Is Not Available".

Uh oh, "Station Not Available"?

There are several reasons why an Internet radio station is not available. At any time, the radio broadcaster may decide to no longer stream over the Internet, or the radio broadcaster may also select to change formats and no longer deliver a stream that can be played back by the FireBall. Escient will work hard to guarantee the quality of the stations that are provided in the Radio Guide, however, there can be no guarantee to those station created by the users.

FireBall Supported Internet Radio Formats and Bit Rates

The following table lists the specifications for each type of supported WMA radio stream.

WMA-Audio V2, V7 and V8		
Bitrate	Sampling Frequency	Channels
5Kbps	8KHz	Mono
6Kbps	8KHz	Mono
8Kbps	8KHz	Mono
	11.025KHz	Mono
10Kbps	11.025KHz	Mono
	16KHz	Mono
12Kbps	16KHz	Mono
	8KHz	Stereo
16Kbps	16KHz	Mono
		Stereo
	22.05KHz	Mono
20Kbps	16KHz	Stereo
	22.05KHz	Mono
		Stereo
22Kbps	32KHz	Mono
	22.05KHz	Stereo
	32KHz	Stereo
32Kbps	22.05KHz	Stereo
	32KHz	Stereo
	44.1KHz	Mono
		Stereo
36kbps	32KHz	Stereo
40Kbps	32KHz	Stereo
44kbps	32 KHz	Stereo
48Kbps	32KHz	Stereo

	44.1KHz	Mono
		Stereo
64Kbps	32 KHz	Stereo
	44.1KHz	Stereo
80Kbps	44.1KHz	Stereo
96Kbps	44.1KHz	Stereo
128Kbps	44.1KHz	Stereo
	48KHz	Stereo
160Kbps	44.1KHz	Stereo
	48KHz	Stereo
192Kbps	44.1KHz	Stereo
	48KHz	Stereo