SHOUTcast Radio

API Documentation

Document Name:	SHOUTcast API Documentation

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Top Level Genre Listing

Access top level genres on SHOUTcast

Raw XML: http://yp.shoutcast.com/sbin/newxml.phtml

RSS 2.0 formed xml: http://yp.shoutcast.com/sbin/newxml.phtml?rss=1

Response:

```
<genrelist>
        <genre name="Rock"></genre>
</genrelist>
```

Station List on Genre

Access currently online radio stations which play music of genre type requested

Raw XML: http://yp.shoutcast.com/sbin/newxml.phtml?genre=Trance

RSS 2.0 formed xml: http://yp.shoutcast.com/sbin/newxml.phtml?genre=Trance&rss=1

Response:

```
<stationlist>
        <tunein base="/sbin/tunein-station.pls"></tunein>
        <station name=" -=Sputnik Radio Muzika=- Hi Def Sound..WARNING: Subliminal Suggestions in
        audio.... Server FULL? Do" mt="audio/aacp" id="639026" br="128" genre="Trance  Dance  Pop"
        ct="Gabriel &amp;amp; Dresden - Sydney (Organised nature)" lc="45"></station>
</stationlist>
```

Response Description:

name = station name
mt = MIME type, determines the codec used. [Audio/mpeg for MP3 and audio/aacp for aacPlus]
id = station ID.

- Use this when connecting to http://yp.shoutcast.com/tunein-station.pls?id=12345 to retrieve the play list containing the station URL

br = station bitrate
genre = station genre.

- This is a "freeform" text. These are used to populate the genre list.
- Calling the API with ?genre=xyz does a like genre like %xyz% database query.

ct = currently playing track.

- Not guaranteed to be up-to-date because of database caching

lc = listener cont

Station List on Search

With around 20,000+ SHOUTcast Radio Stations from across the world, you can search for Station name, song, genre and artist.

Raw XML: http://yp.shoutcast.com/sbin/newxml.phtml?search=[UrlEncodedSearchString]
RSS 2.0 formed xml:
http://yp.shoutcast.com/sbin/newxml.phtml?search=[UrlEncodedSearchString]&rss=1

Response:

- Same results as the genre listings, but search searches station name, current playing track and genre

Other - API Related

To limit results

- Add "&limit=%d" to limit xml entry results
  - Where %d is the number of items to return

To tune into a station

- Find the id="1025" attribute in the xml and call http://yp.shoutcast.com/sbin/tunein-station.pls?id=1025

XML Caching:

- Do not cache the XML for more than 1 day, as station ID's can and will change.

SHOUTcast protocol

HTTP reply headers

- the server will send the following on connect
  - icy-name: current title at time of connect
  - icy-metaint: metadata interval (see below)

Metadata interval

- Every x bytes (as defined by icy-metaint:)
- Server sends a string, prefixed by length/16
- StreamTitle='new title'
- Sometimes there are multiple parameters, separated by semi-colons (;)
  - For example
    - StreamTitle='new title';StreamURL='http://www.sony.com'
    - you can ignore anything other than StreamTitle=
- Most metadata messages will be "0", you typically only get real data after a song change
- if you drop packets, you should close the connection and re-connect, so as to be in sync with the metadata interval
- **NOTE:** In order to receive a metadata interval, you must put Icy-Metadata: 1 in the HTTP headers when you connect.

Last Updated March 4, 2009