
Rdio-Sock Documentation

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Contents

1	Classes	3
1.1	RdioSock	3
1.2	RdioMetadata	4
1.3	RdioPlayer	5
1.4	RdioPubSub	6
1.5	RdioServerInfo	7
1.6	RdioUser	7
1.7	RdioFieldService	8
1.8	RdioPrivateService	8
1.9	RdioMediaItem	9
1.10	RdioNamedItem	9
1.11	RdioIconItem	9
1.12	RdioDataItem	10
1.13	RdioBaseItem	10
1.14	RdioAlbum	10
1.15	RdioArtist	12
1.16	RdioList	14
1.17	RdioCollection	14
1.18	RdioPerson	15
1.19	RdioPlaybackInfo	16
1.20	RdioPlayerState	18
1.21	RdioQueue	18
1.22	RdioTrackSource	19
1.23	RdioAlbumSource	20
1.24	RdioSource	23
1.25	RdioTrack	24
2	Indices and tables	27
	Python Module Index	29

Start with the following example:

```
rdio = RdioSock()

# Login to Rdio
rdio.user.login("<username>", "<password>")

# Song changed callback
def song_changed(track):
    print "%s - %s - %s" % (track.name, track.album, track.artist)

# PubSub connected callback
def pubsub_connected():
    # Subscribe services into pubsub updates
    rdio.pubsub.subscribe(rdio.services.fields)
    rdio.pubsub.subscribe(rdio.services.private)

    # Bind player events
    rdio.player.on_song_changed.bind(song_changed)

    # Force a player update to get the current state
    # (Updates after this are done via PubSub automatically)
    rdio.player.update()

rdio.pubsub.on_connected.bind(pubsub_connected)

# Connect the WebSocket-PubSub client to enable real-time updates
rdio.pubsub.connect()
```

When you have this working you should be able to dive into the documentation starting at the main client class `rdiosock.RdioSock`

Core:

RdioSock

class `rdiosock.RdioSock` (*useragent=None*)
Rdio-Sock client

Parameters **useragent** (*str*) – User-Agent to use for HTTP/HTTPS requests or None which defaults to Chrome 25.0

Fields

pubsub

`rdiosock.pubsub.RdioPubSub`

PubSub client

services

`rdiosock.RdioSockServiceManager`

Rdio service manager

metadata

`rdiosock.metadata.RdioMetadata`

player

`rdiosock.player.RdioPlayer`

user

`rdiosock.user.RdioUser`

server_info

`rdiosock.server_info.RdioServerInfo`

version

int

Rdio communication version

class `rdiosock.RdioSockServiceManager` (*sock*)
Rdio service manager

Fields

fields
`rdiosock.services.fields.RdioFieldService`

Field service manager

private
`rdiosock.services.private.RdioPrivateService`

Private service manager

RdioMetadata

class `rdiosock.metadata.RdioMetadata` (*sock*)

search (*query*, *search_types*=`SEARCH_TYPES.ALL`, *search_extras*=`SEARCH_EXTRAS.ALL`)
Search for media item.

Parameters

- **query** (*str*) – Search query
- **search_types** (*int or list of int*) – Search type (`rdiosock.metadata.SEARCH_TYPES` bitwise-OR or list)
- **search_extras** (*int or list of int*) – Search result extras to include (`rdiosock.metadata.SEARCH_EXTRAS` bitwise-OR or list)

class `rdiosock.metadata.SEARCH_TYPES`
Metadata search types

NONE

ALL

ARTIST

ALBUM

TRACK

PLAYLIST

USER

LABEL

class `rdiosock.metadata.SEARCH_EXTRAS`
Metadata search extras

NONE

ALL

LOCATION

USERNAME

STATIONS
DESCRIPTION
FOLLOWER_COUNT
FOLLOWING_COUNT
SET_COUNT
ICON_250x375
ICON_500x750
ICON_250x333
ICON_500x667

RdioPlayer

`class rdiosock.player.RdioPlayer(sock)`

Class Constants

REPEAT_ALL
REPEAT_ONE
REPEAT_NONE

Fields

Un-changeable fields updated via PubSub

last_song_played
rdiosock.objects.queue.RdioQueue
Last song played

last_song_play_time

last_source_played
rdiosock.objects.source.RdioSource
Last source played

on_song_changed
rdiosock.utils.EventHook
Song changed event

player_state
rdiosock.objects.player_state.RdioPlayerState
Current Rdio player state

queue
rdiosock.objects.queue.RdioQueue
Current Rdio player state

Properties

Changeable properties updated and changed via PubSub

volume

float

Player volume (0.0 - 1.0)

NOTE: This property sends pubsub messages

shuffle

bool

Player shuffle mode

NOTE: This property sends pubsub messages

repeat

RdioPlayer.REPEAT_ALL, RdioPlayer.REPEAT_ONE, RdioPlayer.REPEAT_NONE

Player repeat mode

NOTE: This property sends pubsub messages

position

int

Player position in seconds

NOTE: This property sends pubsub messages

Methods

update (*callback=None*)

Force a player state and queue update

get_playback_info (*key, manual_play=True*)

Get track playback info

Parameters **key** (*str*) – Track Key

toggle_pause ()

toggle_shuffle ()

play ()

pause ()

previous ()

next ()

next_source ()

RdioPubSub

class `rdiosock.pubsub.RdioPubSub` (*sock*)

PubSub client

connect (*update=True*)

Connect to PubSub server

Parameters **update** (*bool*) – Force pubsub info update (pubsubInfo)

publish (*topic, data*)

Publish PubSub message

Parameters

- **topic** (*str*) – Topic Name
- **data** (*object*) – json serializable object

subscribe (*service*, *target=None*)

Subscribe RdioService into pubsub messages

Parameters

- **service** (`rdiosock.services.RdioService`) – RdioService instance
- **target** (*str or None*) – Target (User, Playlist) or None to indicate current user

subscribe_topic (*topic*, *callback*, *target=None*)

Subscribe to pubsub topic

Parameters

- **topic** (*str*) – Topic Name
- **callback** (*function*) – callback(message) will be called when messages are received

RdioServerInfo

```
class rdiosock.server_info.RdioServerInfo(sock)
```

Fields

country_code

str

country_name

str

locale

str

RdioUser

```
class rdiosock.user.RdioUser(sock)
```

Fields

id

int

key

str

authorization_key

str

first_name

str

last_name

str

vanity_name

str

is_anonymous

bool

new_user

bool

Methods

login (*username, password, remember=True*)

Login as an Rdio user

Parameters

- **username** (*str*) – Username in plaintext
- **password** (*str*) – Password in plaintext
- **remember** (*bool*) – Should we remember this login authorization?

Services:

RdioFieldService

class rdiosock.services.fields.**RdioFieldService** (*sock*)

Field service manager

Fields

fields

dict

Dictionary of current field values

Events

on_changed

rdiosock.utils.EventHook

Field changed event

Callback Parameters: (field_name, field_value)

RdioPrivateService

class rdiosock.services.private.**RdioPrivateService** (*sock*)

Private service manager

Events

on_player_state_changed

rdiosock.utils.EventHook

Player state changed event

Callback Parameters: ()

on_queue_changed

rdiosock.utils.EventHook

Queue changed event

Callback Parameters: ()

Objects:

RdioMediaItem

```
class rdiosock.objects.base.RdioMediaItem
    Rdio base media item

    can_sample
        bool

    can_stream
        bool

    can_tether
        bool

    is_clean
        bool

    is_explicit
        bool

    duration
        int

    price
        float

    embed_url
        str

    iframe_url
        str
```

RdioNamedItem

```
class rdiosock.objects.base.RdioNamedItem

    name
        str

    length
        int

    short_url
        str
```

RdioIconItem

```
class rdiosock.objects.base.RdioIconItem

    base_icon
        str
```

```
icon
    str
```

RdioDataItem

```
class rdiosock.objects.base.RdioDataItem
```

```
key
    str

type
    str

url
    str
```

RdioBaseItem

```
class rdiosock.objects.base.RdioBaseItem
```

```
classmethod parse(data)
    Parse data into object

    Parameters data (str or dict) – Data to parse

    Return type rdiosock.objects.base.RdioBaseItem
```

RdioAlbum

```
class rdiosock.objects.album.RdioAlbum
```

```
Rdio Album

artist
    str

artist_key
    str

artist_url
    str

big_icon
    str

big_icon_1200
    str

copyright
    str

display_date
    unknown
```

icon_400
str

labels
unknown

network_consumers
list of `rdiosock.objects.person.RdioPerson`

playlist_count
int

play_count
int

release_date
unknown

review
str

tracks
list of `rdiosock.objects.track.RdioTrack`

track_keys
list of str

parse_tracks (*key, value*)
Parse tracks list

Parameters **value** (*dict*) – tracks list dictionary

RdioMediaItem (*Inherited*)

can_sample
bool

can_stream
bool

can_tether
bool

is_clean
bool

is_explicit
bool

duration
int

price
float

embed_url
str

iframe_url
str

RdioNamedItem (*Inherited*)

name
str

length
int

short_url
str

RdioIconItem (*Inherited*)

base_icon
str

icon
str

RdioDataItem (*Inherited*)

key
str

type
str

url
str

RdioBaseItem (*Inherited*)

classmethod parse (*data*)

Parse data dictionary into RdioAlbum object

Parameters **data** (*str or dict*) – Data to parse

Return type *rdiosock.objects.album.RdioAlbum*

RdioArtist

class `rdiosock.objects.artist.RdioArtist`

album_count
int

band_members
unknown

banner_alignment
str

banner_background_color
str

cover_photo_url
str

has_icon
bool

has_influenced_artists
bool

has_influential_artists
bool

has_radio
bool

has_related_artists
bool

has_review
bool

in_program
bool

stations
list of unknown

top_album_icon
str

top_songs_key
str

radio_key
str

play_count
int

RdioNamedItem (*Inherited*)

name
str

length
int

short_url
str

RdioIconItem (*Inherited*)

base_icon
str

icon
str

RdioDataItem (*Inherited*)

key
str

type
str

url
str

RdioBaseItem (*Inherited*)

classmethod parse (*data*)
Parse data dictionary into RdioArtist object

Parameters **data** (*str or dict*) – Data to parse

Return type *rdiosock.objects.artist.RdioArtist*

RdioList

```
class rdiosock.objects.collection.RdioList
```

```
    parse_items (key, value)
```

```
    RdioCollection (Inherited)
```

```
        start
            int
```

```
        total
            int
```

```
        number_results
            int
```

```
        type
            str
```

```
        type_count
            dict
```

```
        items
            list of rdiosock.objects.base.RdioBaseItem
```

```
    parse_items (key, value)
```

```
    parse_count (key, value)
```

```
    RdioBaseItem (Inherited)
```

```
        classmethod parse (data)
```

```
            Parse data dictionary into RdioList object
```

```
            Parameters data (str or dict) – Data to parse
```

```
            Return type rdiosock.objects.collection.RdioList
```

RdioCollection

```
class rdiosock.objects.collection.RdioCollection
```

```
    start
        int
```

```
    total
        int
```

```
    number_results
        int
```

```
    type
        str
```

```
    type_count
        dict
```

```
    items
        list of rdiosock.objects.base.RdioBaseItem
```

parse_items (*key, value*)

parse_count (*key, value*)

RdioBaseItem (*Inherited*)

classmethod parse (*data*)

 Parse data dictionary into RdioCollection object

Parameters **data** (*str or dict*) – Data to parse

Return type *rdiosock.objects.collection.RdioCollection*

RdioPerson

class *rdiosock.objects.person.RdioPerson*

first_name

 str

last_name

 str

gender

 str

location

 str

can_unfollow

 bool

is_protected

 bool

follower_state

 unknown

following_state

 str

library_version

 int

RdioIconItem (*Inherited*)

base_icon

 str

icon

 str

RdioDataItem (*Inherited*)

key

 str

type

 str

url

 str

RdioBaseItem (*Inherited*)**classmethod parse** (*data*)

Parse data into object

Parameters **data** (*str or dict*) – Data to parse**Return type** *rdiosock.objects.person.RdioPerson*

RdioPlaybackInfo

class *rdiosock.objects.playback_info.RdioPlaybackInfo*

Rdio Playback Info

mp4

bool

shost

int

surl

str

stream_app

str

stream_host

str

user_has_unlimited

bool

RdioTrack (*Inherited*)**track_num**

int

artist

str

artist_key

str

artist_url

str

album

str

album_artist

str

album_artist_key

str

album_key

str

album_url

str

radio_key

str

can_download

bool

can_download_album_only

bool

RdioMediaItem (*Inherited*)

can_sample

bool

can_stream

bool

can_tether

bool

is_clean

bool

is_explicit

bool

duration

int

price

float

embed_url

str

iframe_url

str

RdioNamedItem (*Inherited*)

name

str

length

int

short_url

str

RdioIconItem (*Inherited*)

base_icon

str

icon

str

RdioDataItem (*Inherited*)

key

str

type

str

url

str

RdioBaseItem (*Inherited*)**classmethod parse** (*data*)

Parse data into RdioPlaybackInfo object

Parameters **data** (*str or dict*) – Data to parse**Return type** *rdiosock.objects.playback_info.RdioPlaybackInfo*

RdioPlayerState

class *rdiosock.objects.player_state.RdioPlayerState***current_source***rdiosock.objects.source.RdioSource***repeat**

int

shuffle

bool

station

unknown

version

int

RdioBaseItem (*Inherited*)**classmethod parse** (*data*)

Parse data into object

Parameters **data** (*str or dict*) – Data to parse**Return type** *rdiosock.objects.player_state.RdioPlayerState*

RdioQueue

class *rdiosock.objects.queue.RdioQueue***track_keys**

list of str

version

int

RdioBaseItem (*Inherited*)**parse** (*data*)

Parse data into object

Parameters **data** (*str or dict*) – Data to parse**Return type** *rdiosock.objects.base.RdioBaseItem*

RdioTrackSource

`class rdiosock.objects.source.RdioTrackSource`

RdioTrack (*Inherited*)

track_num

int

artist

str

artist_key

str

artist_url

str

album

str

album_artist

str

album_artist_key

str

album_key

str

album_url

str

radio_key

str

can_download

bool

can_download_album_only

bool

RdioSource (*Inherited*)

parse_source (*value*)

Parse the source into RdioTrackSource or RdioAlbumSource

Parameters **value** (*dict*) – Data to parse

Return type *rdiosock.objects.source.RdioSource*

RdioMediaItem (*Inherited*)

can_sample

bool

can_stream

bool

can_tether

bool

is_clean

bool

is_explicit
bool

duration
int

price
float

embed_url
str

iframe_url
str

RdioNamedItem (*Inherited*)

name
str

length
int

short_url
str

RdioIconItem (*Inherited*)

base_icon
str

icon
str

RdioDataItem (*Inherited*)

key
str

type
str

url
str

RdioBaseItem (*Inherited*)

classmethod parse (*data*)

Parse data into object

Parameters **data** (*str* or *dict*) – Data to parse

Return type *rdiosock.objects.source.RdioTrackSource*

RdioAlbumSource

```
class rdiosock.objects.source.RdioAlbumSource
```

album_key
str

album_url
str

current_position

int

raw_artist_key

str

user_key

str

user_name

str

RdioAlbum (*Inherited*)

artist

str

artist_key

str

artist_url

str

big_icon

str

big_icon_1200

str

copyright

str

display_date

unknown

icon_400

str

labels

unknown

network_consumers

list of *rdiosock.objects.person.RdioPerson*

playlist_count

int

play_count

int

release_date

unknown

review

str

tracks

list of *rdiosock.objects.track.RdioTrack*

track_keys

list of str

parse_tracks (*key, value*)

Parse tracks list

Parameters **value** (*dict*) – tracks list dictionary

RdioSource (*Inherited*)

parse_source (*value*)

Parse the source into RdioTrackSource or RdioAlbumSource

Parameters **value** (*dict*) – Data to parse

Return type *rdiosock.objects.source.RdioSource*

RdioMediaItem (*Inherited*)

can_sample

bool

can_stream

bool

can_tether

bool

is_clean

bool

is_explicit

bool

duration

int

price

float

embed_url

str

iframe_url

str

RdioNamedItem (*Inherited*)

name

str

length

int

short_url

str

RdioIconItem (*Inherited*)

base_icon

str

icon

str

RdioDataItem (*Inherited*)

key

str

type

str

url
str

RdioBaseItem (*Inherited*)

classmethod parse (*data*)
Parse data into object
Parameters **data** (*str or dict*) – Data to parse
Return type *rdiosock.objects.source.RdioAlbumSource*

RdioSource

class *rdiosock.objects.source.RdioSource*

static parse_source (*value*)
Parse the source into RdioTrackSource or RdioAlbumSource
Parameters **value** (*dict*) – Data to parse
Return type *rdiosock.objects.source.RdioSource*

RdioMediaItem (*Inherited*)

can_sample
bool

can_stream
bool

can_tether
bool

is_clean
bool

is_explicit
bool

duration
int

price
float

embed_url
str

iframe_url
str

RdioNamedItem (*Inherited*)

name
str

length
int

short_url
str

RdioIconItem (*Inherited*)

base_icon
str

icon
str

RdioDataItem (*Inherited*)

key
str

type
str

url
str

RdioBaseItem (*Inherited*)

classmethod parse (*data*)

Parse data into object

Parameters **data** (*str or dict*) – Data to parse

Return type *rdiosock.objects.source.RdioSource*

RdioTrack

class *rdiosock.objects.track.RdioTrack*

track_num
int

artist
str

artist_key
str

artist_url
str

album
str

album_artist
str

album_artist_key
str

album_key
str

album_url
str

radio_key
str

can_download

bool

can_download_album_only

bool

RdioMediaItem (*Inherited*)

can_sample

bool

can_stream

bool

can_tether

bool

is_clean

bool

is_explicit

bool

duration

int

price

float

embed_url

str

iframe_url

str

RdioNamedItem (*Inherited*)

name

str

length

int

short_url

str

RdioIconItem (*Inherited*)

base_icon

str

icon

str

RdioDataItem (*Inherited*)

key

str

type

str

url

str

RdioBaseItem (*Inherited*)

classmethod parse (*data*)

Parse data into object

Parameters **data** (*str or dict*) – Data to parse

Return type *rdiosock.objects.track.RdioTrack*

CHAPTER 2

Indices and tables

- `genindex`
- `modindex`
- `search`

r

- `rdiosock`, [3](#)
- `rdiosock.metadata`, [4](#)
- `rdiosock.objects.album`, [10](#)
- `rdiosock.objects.artist`, [12](#)
- `rdiosock.objects.base`, [9](#)
- `rdiosock.objects.collection`, [14](#)
- `rdiosock.objects.person`, [15](#)
- `rdiosock.objects.playback_info`, [16](#)
- `rdiosock.objects.player_state`, [18](#)
- `rdiosock.objects.queue`, [18](#)
- `rdiosock.objects.source`, [19](#)
- `rdiosock.objects.track`, [24](#)
- `rdiosock.player`, [5](#)
- `rdiosock.pubsub`, [6](#)
- `rdiosock.server_info`, [7](#)
- `rdiosock.services.fields`, [8](#)
- `rdiosock.services.private`, [8](#)
- `rdiosock.user`, [7](#)

A

ALBUM (rdiosock.metadata.SEARCH_TYPES attribute), 4
 album (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16
 album (rdiosock.objects.source.RdioTrackSource attribute), 19
 album (rdiosock.objects.track.RdioTrack attribute), 24
 album_artist (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16
 album_artist (rdiosock.objects.source.RdioTrackSource attribute), 19
 album_artist (rdiosock.objects.track.RdioTrack attribute), 24
 album_artist_key (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16
 album_artist_key (rdiosock.objects.source.RdioTrackSource attribute), 19
 album_artist_key (rdiosock.objects.track.RdioTrack attribute), 24
 album_count (rdiosock.objects.artist.RdioArtist attribute), 12
 album_key (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16
 album_key (rdiosock.objects.source.RdioAlbumSource attribute), 20
 album_key (rdiosock.objects.source.RdioTrackSource attribute), 19
 album_key (rdiosock.objects.track.RdioTrack attribute), 24
 album_url (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16
 album_url (rdiosock.objects.source.RdioAlbumSource attribute), 20
 album_url (rdiosock.objects.source.RdioTrackSource attribute), 19
 album_url (rdiosock.objects.track.RdioTrack attribute), 24
 ALL (rdiosock.metadata.SEARCH_EXTRAS attribute), 4
 ALL (rdiosock.metadata.SEARCH_TYPES attribute), 4
 ARTIST (rdiosock.metadata.SEARCH_TYPES attribute), 4
 artist (rdiosock.objects.album.RdioAlbum attribute), 10
 artist (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16
 artist (rdiosock.objects.source.RdioAlbumSource attribute), 21
 artist (rdiosock.objects.source.RdioTrackSource attribute), 19
 artist (rdiosock.objects.track.RdioTrack attribute), 24
 artist_key (rdiosock.objects.album.RdioAlbum attribute), 10
 artist_key (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16
 artist_key (rdiosock.objects.source.RdioAlbumSource attribute), 21
 artist_key (rdiosock.objects.source.RdioTrackSource attribute), 19
 artist_key (rdiosock.objects.track.RdioTrack attribute), 24
 artist_url (rdiosock.objects.album.RdioAlbum attribute), 10
 artist_url (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16
 artist_url (rdiosock.objects.source.RdioAlbumSource attribute), 21
 artist_url (rdiosock.objects.source.RdioTrackSource attribute), 19
 artist_url (rdiosock.objects.track.RdioTrack attribute), 24
 authorization_key (rdiosock.user.RdioUser attribute), 7

B

band_members (rdiosock.objects.artist.RdioArtist attribute), 12
 banner_alignment (rdiosock.objects.artist.RdioArtist attribute), 12
 banner_background_color (rdiosock.objects.artist.RdioArtist attribute), 12

base_icon (rdiosock.objects.album.RdioAlbum attribute), 12

base_icon (rdiosock.objects.artist.RdioArtist attribute), 13

base_icon (rdiosock.objects.base.RdioIconItem attribute), 9

base_icon (rdiosock.objects.person.RdioPerson attribute), 15

base_icon (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17

base_icon (rdiosock.objects.source.RdioAlbumSource attribute), 22

base_icon (rdiosock.objects.source.RdioSource attribute), 24

base_icon (rdiosock.objects.source.RdioTrackSource attribute), 20

base_icon (rdiosock.objects.track.RdioTrack attribute), 25

big_icon (rdiosock.objects.album.RdioAlbum attribute), 10

big_icon (rdiosock.objects.source.RdioAlbumSource attribute), 21

big_icon_1200 (rdiosock.objects.album.RdioAlbum attribute), 10

big_icon_1200 (rdiosock.objects.source.RdioAlbumSource attribute), 21

C

can_download (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16

can_download (rdiosock.objects.source.RdioTrackSource attribute), 19

can_download (rdiosock.objects.track.RdioTrack attribute), 24

can_download_album_only (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17

can_download_album_only (rdiosock.objects.source.RdioTrackSource attribute), 19

can_download_album_only (rdiosock.objects.track.RdioTrack attribute), 25

can_sample (rdiosock.objects.album.RdioAlbum attribute), 11

can_sample (rdiosock.objects.base.RdioMediaItem attribute), 9

can_sample (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17

can_sample (rdiosock.objects.source.RdioAlbumSource attribute), 22

can_sample (rdiosock.objects.source.RdioSource attribute), 23

can_sample (rdiosock.objects.source.RdioTrackSource attribute), 19

can_sample (rdiosock.objects.track.RdioTrack attribute), 25

can_stream (rdiosock.objects.album.RdioAlbum attribute), 11

can_stream (rdiosock.objects.base.RdioMediaItem attribute), 9

can_stream (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17

can_stream (rdiosock.objects.source.RdioAlbumSource attribute), 22

can_stream (rdiosock.objects.source.RdioSource attribute), 23

can_stream (rdiosock.objects.source.RdioTrackSource attribute), 19

can_stream (rdiosock.objects.track.RdioTrack attribute), 25

can_tether (rdiosock.objects.album.RdioAlbum attribute), 11

can_tether (rdiosock.objects.base.RdioMediaItem attribute), 9

can_tether (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17

can_tether (rdiosock.objects.source.RdioAlbumSource attribute), 22

can_tether (rdiosock.objects.source.RdioSource attribute), 23

can_tether (rdiosock.objects.source.RdioTrackSource attribute), 19

can_tether (rdiosock.objects.track.RdioTrack attribute), 25

can_unfollow (rdiosock.objects.person.RdioPerson attribute), 15

connect() (rdiosock.pubsub.RdioPubSub method), 6

copyright (rdiosock.objects.album.RdioAlbum attribute), 10

copyright (rdiosock.objects.source.RdioAlbumSource attribute), 21

country_code (rdiosock.server_info.RdioServerInfo attribute), 7

country_name (rdiosock.server_info.RdioServerInfo attribute), 7

cover_photo_url (rdiosock.objects.artist.RdioArtist attribute), 12

current_position (rdiosock.objects.source.RdioAlbumSource attribute), 20

current_source (rdiosock.objects.player_state.RdioPlayerState attribute), 18

D

DESCRIPTION (rdiosock.metadata.SEARCH_EXTRAS attribute), 5

display_date (rdiosock.objects.album.RdioAlbum attribute), 10

display_date (rdiosock.objects.source.RdioAlbumSource attribute), 21

duration (rdiosock.objects.album.RdioAlbum attribute), 11

duration (rdiosock.objects.base.RdioMediaItem attribute), 9

duration (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17

duration (rdiosock.objects.source.RdioAlbumSource attribute), 22

duration (rdiosock.objects.source.RdioSource attribute), 23

duration (rdiosock.objects.source.RdioTrackSource attribute), 20

duration (rdiosock.objects.track.RdioTrack attribute), 25

E

embed_url (rdiosock.objects.album.RdioAlbum attribute), 11

embed_url (rdiosock.objects.base.RdioMediaItem attribute), 9

embed_url (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17

embed_url (rdiosock.objects.source.RdioAlbumSource attribute), 22

embed_url (rdiosock.objects.source.RdioSource attribute), 23

embed_url (rdiosock.objects.source.RdioTrackSource attribute), 20

embed_url (rdiosock.objects.track.RdioTrack attribute), 25

F

fields (rdiosock.RdioSockServiceManager attribute), 4

fields (rdiosock.services.fields.RdioFieldService attribute), 8

first_name (rdiosock.objects.person.RdioPerson attribute), 15

first_name (rdiosock.user.RdioUser attribute), 7

FOLLOWER_COUNT (rdiosock.metadata.SEARCH_EXTRAS attribute), 5

follower_state (rdiosock.objects.person.RdioPerson attribute), 15

FOLLOWING_COUNT (rdiosock.metadata.SEARCH_EXTRAS attribute), 5

following_state (rdiosock.objects.person.RdioPerson attribute), 15

G

gender (rdiosock.objects.person.RdioPerson attribute), 15

get_playback_info() (rdiosock.player.RdioPlayer method), 6

H

has_icon (rdiosock.objects.artist.RdioArtist attribute), 12

has_influenced_artists (rdiosock.objects.artist.RdioArtist attribute), 12

has_influential_artists (rdiosock.objects.artist.RdioArtist attribute), 12

has_radio (rdiosock.objects.artist.RdioArtist attribute), 12

has_related_artists (rdiosock.objects.artist.RdioArtist attribute), 13

has_review (rdiosock.objects.artist.RdioArtist attribute), 13

I

icon (rdiosock.objects.album.RdioAlbum attribute), 12

icon (rdiosock.objects.artist.RdioArtist attribute), 13

icon (rdiosock.objects.base.RdioIconItem attribute), 9

icon (rdiosock.objects.person.RdioPerson attribute), 15

icon (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17

icon (rdiosock.objects.source.RdioAlbumSource attribute), 22

icon (rdiosock.objects.source.RdioSource attribute), 24

icon (rdiosock.objects.source.RdioTrackSource attribute), 20

icon (rdiosock.objects.track.RdioTrack attribute), 25

ICON_250x333 (rdiosock.metadata.SEARCH_EXTRAS attribute), 5

ICON_250x375 (rdiosock.metadata.SEARCH_EXTRAS attribute), 5

icon_400 (rdiosock.objects.album.RdioAlbum attribute), 10

icon_400 (rdiosock.objects.source.RdioAlbumSource attribute), 21

ICON_500x667 (rdiosock.metadata.SEARCH_EXTRAS attribute), 5

ICON_500x750 (rdiosock.metadata.SEARCH_EXTRAS attribute), 5

id (rdiosock.user.RdioUser attribute), 7

iframe_url (rdiosock.objects.album.RdioAlbum attribute), 11

iframe_url (rdiosock.objects.base.RdioMediaItem attribute), 9

iframe_url (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17

iframe_url (rdiosock.objects.source.RdioAlbumSource attribute), 22

iframe_url (rdiosock.objects.source.RdioSource attribute), 23

iframe_url (rdiosock.objects.source.RdioTrackSource attribute), 20

iframe_url (rdiosock.objects.track.RdioTrack attribute), 25

in_program (rdiosock.objects.artist.RdioArtist attribute), 13

is_anonymous (rdiosock.user.RdioUser attribute), 7
 is_clean (rdiosock.objects.album.RdioAlbum attribute), 11
 is_clean (rdiosock.objects.base.RdioMediaItem attribute), 9
 is_clean (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17
 is_clean (rdiosock.objects.source.RdioAlbumSource attribute), 22
 is_clean (rdiosock.objects.source.RdioSource attribute), 23
 is_clean (rdiosock.objects.source.RdioTrackSource attribute), 19
 is_clean (rdiosock.objects.track.RdioTrack attribute), 25
 is_explicit (rdiosock.objects.album.RdioAlbum attribute), 11
 is_explicit (rdiosock.objects.base.RdioMediaItem attribute), 9
 is_explicit (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17
 is_explicit (rdiosock.objects.source.RdioAlbumSource attribute), 22
 is_explicit (rdiosock.objects.source.RdioSource attribute), 23
 is_explicit (rdiosock.objects.source.RdioTrackSource attribute), 19
 is_explicit (rdiosock.objects.track.RdioTrack attribute), 25
 is_protected (rdiosock.objects.person.RdioPerson attribute), 15
 items (rdiosock.objects.collection.RdioCollection attribute), 14
 items (rdiosock.objects.collection.RdioList attribute), 14

K

key (rdiosock.objects.album.RdioAlbum attribute), 12
 key (rdiosock.objects.artist.RdioArtist attribute), 13
 key (rdiosock.objects.base.RdioDataItem attribute), 10
 key (rdiosock.objects.person.RdioPerson attribute), 15
 key (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17
 key (rdiosock.objects.source.RdioAlbumSource attribute), 22
 key (rdiosock.objects.source.RdioSource attribute), 24
 key (rdiosock.objects.source.RdioTrackSource attribute), 20
 key (rdiosock.objects.track.RdioTrack attribute), 25
 key (rdiosock.user.RdioUser attribute), 7

L

LABEL (rdiosock.metadata.SEARCH_TYPES attribute), 4
 labels (rdiosock.objects.album.RdioAlbum attribute), 11

labels (rdiosock.objects.source.RdioAlbumSource attribute), 21
 last_name (rdiosock.objects.person.RdioPerson attribute), 15
 last_name (rdiosock.user.RdioUser attribute), 7
 last_song_play_time (rdiosock.player.RdioPlayer attribute), 5
 last_song_played (rdiosock.player.RdioPlayer attribute), 5
 last_source_played (rdiosock.player.RdioPlayer attribute), 5
 length (rdiosock.objects.album.RdioAlbum attribute), 11
 length (rdiosock.objects.artist.RdioArtist attribute), 13
 length (rdiosock.objects.base.RdioNamedItem attribute), 9
 length (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17
 length (rdiosock.objects.source.RdioAlbumSource attribute), 22
 length (rdiosock.objects.source.RdioSource attribute), 23
 length (rdiosock.objects.source.RdioTrackSource attribute), 20
 length (rdiosock.objects.track.RdioTrack attribute), 25
 library_version (rdiosock.objects.person.RdioPerson attribute), 15
 locale (rdiosock.server_info.RdioServerInfo attribute), 7
 LOCATION (rdiosock.metadata.SEARCH_EXTRAS attribute), 4
 location (rdiosock.objects.person.RdioPerson attribute), 15
 login() (rdiosock.user.RdioUser method), 8

M

metadata (rdiosock.RdioSock attribute), 3
 mp4 (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16

N

name (rdiosock.objects.album.RdioAlbum attribute), 11
 name (rdiosock.objects.artist.RdioArtist attribute), 13
 name (rdiosock.objects.base.RdioNamedItem attribute), 9
 name (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17
 name (rdiosock.objects.source.RdioAlbumSource attribute), 22
 name (rdiosock.objects.source.RdioSource attribute), 23
 name (rdiosock.objects.source.RdioTrackSource attribute), 20
 name (rdiosock.objects.track.RdioTrack attribute), 25
 network_consumers (rdiosock.objects.album.RdioAlbum attribute), 11
 network_consumers (rdiosock.objects.source.RdioAlbumSource attribute), 21
 new_user (rdiosock.user.RdioUser attribute), 8

- next() (rdiosock.player.RdioPlayer method), 6
- next_source() (rdiosock.player.RdioPlayer method), 6
- NONE (rdiosock.metadata.SEARCH_EXTRAS attribute), 4
- NONE (rdiosock.metadata.SEARCH_TYPES attribute), 4
- number_results (rdiosock.objects.collection.RdioCollection attribute), 14
- number_results (rdiosock.objects.collection.RdioList attribute), 14
- ## O
- on_changed (rdiosock.services.fields.RdioFieldService attribute), 8
- on_player_state_changed (rdiosock.services.private.RdioPrivateService attribute), 8
- on_queue_changed (rdiosock.services.private.RdioPrivateService attribute), 8
- on_song_changed (rdiosock.player.RdioPlayer attribute), 5
- ## P
- parse() (rdiosock.objects.album.RdioAlbum class method), 12
- parse() (rdiosock.objects.artist.RdioArtist class method), 13
- parse() (rdiosock.objects.base.RdioBaseItem class method), 10
- parse() (rdiosock.objects.collection.RdioCollection class method), 15
- parse() (rdiosock.objects.collection.RdioList class method), 14
- parse() (rdiosock.objects.person.RdioPerson class method), 16
- parse() (rdiosock.objects.playback_info.RdioPlaybackInfo class method), 18
- parse() (rdiosock.objects.player_state.RdioPlayerState class method), 18
- parse() (rdiosock.objects.queue.RdioQueue method), 18
- parse() (rdiosock.objects.source.RdioAlbumSource class method), 23
- parse() (rdiosock.objects.source.RdioSource class method), 24
- parse() (rdiosock.objects.source.RdioTrackSource class method), 20
- parse() (rdiosock.objects.track.RdioTrack class method), 26
- parse_count() (rdiosock.objects.collection.RdioCollection method), 15
- parse_count() (rdiosock.objects.collection.RdioList method), 14
- parse_items() (rdiosock.objects.collection.RdioCollection method), 14
- parse_items() (rdiosock.objects.collection.RdioList method), 14
- parse_source() (rdiosock.objects.source.RdioAlbumSource method), 22
- parse_source() (rdiosock.objects.source.RdioSource static method), 23
- parse_source() (rdiosock.objects.source.RdioTrackSource method), 19
- parse_tracks() (rdiosock.objects.album.RdioAlbum method), 11
- parse_tracks() (rdiosock.objects.source.RdioAlbumSource method), 21
- pause() (rdiosock.player.RdioPlayer method), 6
- play() (rdiosock.player.RdioPlayer method), 6
- play_count (rdiosock.objects.album.RdioAlbum attribute), 11
- play_count (rdiosock.objects.artist.RdioArtist attribute), 13
- play_count (rdiosock.objects.source.RdioAlbumSource attribute), 21
- player (rdiosock.RdioSock attribute), 3
- player_state (rdiosock.player.RdioPlayer attribute), 5
- PLAYLIST (rdiosock.metadata.SEARCH_TYPES attribute), 4
- playlist_count (rdiosock.objects.album.RdioAlbum attribute), 11
- playlist_count (rdiosock.objects.source.RdioAlbumSource attribute), 21
- position (rdiosock.player.RdioPlayer attribute), 6
- previous() (rdiosock.player.RdioPlayer method), 6
- price (rdiosock.objects.album.RdioAlbum attribute), 11
- price (rdiosock.objects.base.RdioMediaItem attribute), 9
- price (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17
- price (rdiosock.objects.source.RdioAlbumSource attribute), 22
- price (rdiosock.objects.source.RdioSource attribute), 23
- price (rdiosock.objects.source.RdioTrackSource attribute), 20
- price (rdiosock.objects.track.RdioTrack attribute), 25
- private (rdiosock.RdioSockServiceManager attribute), 4
- publish() (rdiosock.pubsub.RdioPubSub method), 6
- pubsub (rdiosock.RdioSock attribute), 3
- ## Q
- queue (rdiosock.player.RdioPlayer attribute), 5
- ## R
- radio_key (rdiosock.objects.artist.RdioArtist attribute), 13
- radio_key (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16
- radio_key (rdiosock.objects.source.RdioTrackSource attribute), 19

- ul style="list-style-type: none; padding-left: 0;">
- radio_key (rdiosock.objects.track.RdioTrack attribute), 24
- raw_artist_key (rdiosock.objects.source.RdioAlbumSource attribute), 21
- RdioAlbum (class in rdiosock.objects.album), 10
- RdioAlbumSource (class in rdiosock.objects.source), 20
- RdioArtist (class in rdiosock.objects.artist), 12
- RdioBaseItem (class in rdiosock.objects.base), 10
- RdioCollection (class in rdiosock.objects.collection), 14
- RdioDataItem (class in rdiosock.objects.base), 10
- RdioFieldService (class in rdiosock.services.fields), 8
- RdioIconItem (class in rdiosock.objects.base), 9
- RdioList (class in rdiosock.objects.collection), 14
- RdioMediaItem (class in rdiosock.objects.base), 9
- RdioMetadata (class in rdiosock.metadata), 4
- RdioNamedItem (class in rdiosock.objects.base), 9
- RdioPerson (class in rdiosock.objects.person), 15
- RdioPlaybackInfo (class in rdiosock.objects.playback_info), 16
- RdioPlayer (class in rdiosock.player), 5
- RdioPlayer.REPEAT_ALL (in module rdiosock.player), 5
- RdioPlayer.REPEAT_NONE (in module rdiosock.player), 5
- RdioPlayer.REPEAT_ONE (in module rdiosock.player), 5
- RdioPlayerState (class in rdiosock.objects.player_state), 18
- RdioPrivateService (class in rdiosock.services.private), 8
- RdioPubSub (class in rdiosock.pubsub), 6
- RdioQueue (class in rdiosock.objects.queue), 18
- RdioServerInfo (class in rdiosock.server_info), 7
- RdioSock (class in rdiosock), 3
- rdiosock (module), 3
- rdiosock.metadata (module), 4
- rdiosock.objects.album (module), 10
- rdiosock.objects.artist (module), 12
- rdiosock.objects.base (module), 9
- rdiosock.objects.collection (module), 14
- rdiosock.objects.person (module), 15
- rdiosock.objects.playback_info (module), 16
- rdiosock.objects.player_state (module), 18
- rdiosock.objects.queue (module), 18
- rdiosock.objects.source (module), 19
- rdiosock.objects.track (module), 24
- rdiosock.player (module), 5
- rdiosock.pubsub (module), 6
- rdiosock.server_info (module), 7
- rdiosock.services.fields (module), 8
- rdiosock.services.private (module), 8
- rdiosock.user (module), 7
- RdioSockServiceManager (class in rdiosock), 4
- RdioSource (class in rdiosock.objects.source), 23
- RdioTrack (class in rdiosock.objects.track), 24
- RdioTrackSource (class in rdiosock.objects.source), 19
- RdioUser (class in rdiosock.user), 7
- release_date (rdiosock.objects.album.RdioAlbum attribute), 11
- release_date (rdiosock.objects.source.RdioAlbumSource attribute), 21
- repeat (rdiosock.objects.player_state.RdioPlayerState attribute), 18
- repeat (rdiosock.player.RdioPlayer attribute), 6
- review (rdiosock.objects.album.RdioAlbum attribute), 11
- review (rdiosock.objects.source.RdioAlbumSource attribute), 21
- ## S
- search() (rdiosock.metadata.RdioMetadata method), 4
 - SEARCH_EXTRAS (class in rdiosock.metadata), 4
 - SEARCH_TYPES (class in rdiosock.metadata), 4
 - server_info (rdiosock.RdioSock attribute), 3
 - services (rdiosock.RdioSock attribute), 3
 - SET_COUNT (rdiosock.metadata.SEARCH_EXTRAS attribute), 5
 - short_url (rdiosock.objects.album.RdioAlbum attribute), 12
 - short_url (rdiosock.objects.artist.RdioArtist attribute), 13
 - short_url (rdiosock.objects.base.RdioNamedItem attribute), 9
 - short_url (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17
 - short_url (rdiosock.objects.source.RdioAlbumSource attribute), 22
 - short_url (rdiosock.objects.source.RdioSource attribute), 23
 - short_url (rdiosock.objects.source.RdioTrackSource attribute), 20
 - short_url (rdiosock.objects.track.RdioTrack attribute), 25
 - shost (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16
 - shuffle (rdiosock.objects.player_state.RdioPlayerState attribute), 18
 - shuffle (rdiosock.player.RdioPlayer attribute), 6
 - start (rdiosock.objects.collection.RdioCollection attribute), 14
 - start (rdiosock.objects.collection.RdioList attribute), 14
 - station (rdiosock.objects.player_state.RdioPlayerState attribute), 18
 - STATIONS (rdiosock.metadata.SEARCH_EXTRAS attribute), 4
 - stations (rdiosock.objects.artist.RdioArtist attribute), 13
 - stream_app (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16
 - stream_host (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16
 - subscribe() (rdiosock.pubsub.RdioPubSub method), 7
 - subscribe_topic() (rdiosock.pubsub.RdioPubSub method), 7

surl (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16

T

toggle_pause() (rdiosock.player.RdioPlayer method), 6

toggle_shuffle() (rdiosock.player.RdioPlayer method), 6

top_album_icon (rdiosock.objects.artist.RdioArtist attribute), 13

top_songs_key (rdiosock.objects.artist.RdioArtist attribute), 13

total (rdiosock.objects.collection.RdioCollection attribute), 14

total (rdiosock.objects.collection.RdioList attribute), 14

TRACK (rdiosock.metadata.SEARCH_TYPES attribute), 4

track_keys (rdiosock.objects.album.RdioAlbum attribute), 11

track_keys (rdiosock.objects.queue.RdioQueue attribute), 18

track_keys (rdiosock.objects.source.RdioAlbumSource attribute), 21

track_num (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16

track_num (rdiosock.objects.source.RdioTrackSource attribute), 19

track_num (rdiosock.objects.track.RdioTrack attribute), 24

tracks (rdiosock.objects.album.RdioAlbum attribute), 11

tracks (rdiosock.objects.source.RdioAlbumSource attribute), 21

type (rdiosock.objects.album.RdioAlbum attribute), 12

type (rdiosock.objects.artist.RdioArtist attribute), 13

type (rdiosock.objects.base.RdioDataItem attribute), 10

type (rdiosock.objects.collection.RdioCollection attribute), 14

type (rdiosock.objects.collection.RdioList attribute), 14

type (rdiosock.objects.person.RdioPerson attribute), 15

type (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17

type (rdiosock.objects.source.RdioAlbumSource attribute), 22

type (rdiosock.objects.source.RdioSource attribute), 24

type (rdiosock.objects.source.RdioTrackSource attribute), 20

type (rdiosock.objects.track.RdioTrack attribute), 25

type_count (rdiosock.objects.collection.RdioCollection attribute), 14

type_count (rdiosock.objects.collection.RdioList attribute), 14

U

update() (rdiosock.player.RdioPlayer method), 6

url (rdiosock.objects.album.RdioAlbum attribute), 12

url (rdiosock.objects.artist.RdioArtist attribute), 13

url (rdiosock.objects.base.RdioDataItem attribute), 10

url (rdiosock.objects.person.RdioPerson attribute), 15

url (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 17

url (rdiosock.objects.source.RdioAlbumSource attribute), 22

url (rdiosock.objects.source.RdioSource attribute), 24

url (rdiosock.objects.source.RdioTrackSource attribute), 20

url (rdiosock.objects.track.RdioTrack attribute), 25

USER (rdiosock.metadata.SEARCH_TYPES attribute), 4

user (rdiosock.RdioSock attribute), 3

user_has_unlimited (rdiosock.objects.playback_info.RdioPlaybackInfo attribute), 16

user_key (rdiosock.objects.source.RdioAlbumSource attribute), 21

user_name (rdiosock.objects.source.RdioAlbumSource attribute), 21

USERNAME (rdiosock.metadata.SEARCH_EXTRAS attribute), 4

V

vanity_name (rdiosock.user.RdioUser attribute), 7

version (rdiosock.objects.player_state.RdioPlayerState attribute), 18

version (rdiosock.objects.queue.RdioQueue attribute), 18

version (rdiosock.RdioSock attribute), 3

volume (rdiosock.player.RdioPlayer attribute), 5