
streamABC Documentation

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streamABC

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The QuantumCast documentation is organized into several sections:

- *Distributors*
- *API Documentation*
- *Player-SDK Documentation*
- *Country-specific parts for costumers*

(more coming soon)

The QuantumCast *Logimporter* sends logs from streaming servers to our QuantumCast infrastructure. This is necessary to generate statistics for listeners, create AGMA log files and other statistical analyzations.

You can use *Logimporter* to stream logs to QuantumCast (“tail-mode”) on the fly or to send the content of a single file at once.

Logimporter can work with log files from these streaming servers:

- Icecast
- Shoutcast 1
- Windows Media Server
- AIS (Ver. 7.x and 8.x)

1.1 Installation

The *Logimporter* is shipped as a single static binary that can be used without further installation. Just download the file, put it somewhere and make it executable.

Get in contact with QuantumCast support to get your installation files.

Logimporter is available in versions for Linux, Windows, macOS and BSD Unix.

The program is operated with command lines parameters. To get a list of all parameters execute this:

```
./logimporter --help
```

1.2 Tail-Mode

This is the most common use case. In this mode *Logimporter* works like Unix *tail* command. Tail mode starts at the end of the file. All new lines that are added to a file are parsed and sent to QuantumCast in real-time. Any lines that

still exist in the file once you start are not transmitted. The program stays in foreground until you end it with CTRL-C. You can create a init.d or systemd start script to run it in background and control it.

```
./logimporter --dbuser=DBUSER --dbpass=DBPASS --dbname=DBNAME --dbhost=DBHOST --  
↪logtype=icecast --tail ./logs/access.log
```

Note: All values for data access are provided by QuantumCast when you need it.

Some log types like Shoutcast need additional parameters. For more information see below.

1.3 Single File Mode

In this mode *Logimporter* send the content of one file at once. It starts with the first line and process the file until all lines are done. All parameters work as in tail-mode. You just need to omit the *-tail* flag.

```
./logimporter --dbuser=DBUSER --dbpass=DBPASS --dbname=DBNAME --dbhost=DBHOST --  
↪logtype=icecast ./logs/access.log
```

Note: All values for data access are provided by QuantumCast when you need it.

The program shows the import progress and automatically stops if the end of the file is reached.

1.4 AIS Logtype

AIS logs access and session logs. Please always use session logs because only these log files contain information on session durations.

AIS uses a configurable log field layout. *Logimporter* tries to detect the current field definition by using the line prefixed with *#Fields:* that is included in every session log file.

If no field configuration can be found it uses a default.

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CHAPTER 2

QuantumCast API

The QuantumCast API enables you to interact with several [QuantumCast](#) services.

QuantumCast Skip API

The QuantumCast Skip API controls skips in streams using dedicated URL GET parameters appended to a QuantumCast stream URL.

Note: The channel behind the stream URL has to be skip enabled in the QuantumCast console backend to make use of this Skip API.

Example streamURL: <http://sabc-test.stream.vip/qc/mp3-256/> (or <https://sabc-test.stream.vip/qc/mp3-256/>)

3.1 URL parameters

Name	Explanation	Example
sabcsid	Unique listener ID (UUID)	fb3c7ba352e3
skip	Session-ID for actual listener or live for livestream	e1d4c7a3-cae1-4a74-a489-7b41648bd9e7
skip2	Position-ID of last item	7648

The `sabcsid` paramter is mandantory. It has to be unique and always the same for a specific user.

If you are working on a web player you can use our [QuantumCast Javascript-SDK](#) to generate this listener id and decorate an existing stream URL. Q

3.2 Initial start of a skippable stream

Every listener session has to be started with an valid listener id parameter `sabcsid` like so: <http://sabc-test.stream.vip/qc/mp3-256/?sabcsid=fb3c7ba352e3>

This starts a default live stream session but prepares our backend system to upcoming skips of this user.

3.3 Skip to next element

Start a new listener session with the same stream url like before but add a valid `skip` and `skip2` paramter: <http://sabc-test.stream.vip/qc/mp3-256/?sabcsid=fb3c7ba352e3&skip=e1d4c7a3-cae1-4a74-a489-7b41648bd9e7&skip2=7648>

This starts a a new user stream session starting with the next song after position defined with `skip2`.

You get the required values for `skip` and `skip2` over a WebSocket connection to our player services API as described here:

See also:

[Websockets Documentation](#)

With a subscription to `/metadata/{listenerid}` you get all metadata events in real-time.

If it's not possible to open a websockets connection in addition to the stream playback you can generate your own session id and send this value as `skip` parameter and leave `skip2` blank. Bear in mind that this comes with some drawbacks: A stream start without a valid session id from our QuantumCast backend will result in slightly longer wait times until audio begins. In addition you can only skip to the next element in the playlist.

A websockets connection on the other hand gives you some more useful data. You get the users metadata (artist, song) of the element playing right now and the next element as long as cover art and some status information. You also get information about whether the actual element is an advertisement and how long it plays.

3.4 Tune back to live stream

Start a new listener session with the same stream url like before but add `live` as `skip` parameter: <http://sabc-test.stream.vip/qc/mp3-256/?sabcsid=fb3c7ba352e3&skip=live>

You can also just omit all skip parameters to start a livestream. But if the disconnect time is too short our backend tries to re-connect you listener to his already running skip stream. A `skip=live` forces a live stream start.

For more information, please open a ticket:

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QuantumCast Websockets API

This documentation describes the use of the low-level Websockets API as part of our PlayerServices API.

If possible use a higher-level SDK that abstracts all steps. Currently, a Javascript Version is available here: <https://github.com/streamABC/api-player>

You find all detailed docs for transferred messages here: <https://github.com/streamABC/api-player/blob/master/Docs-Playerservices.md>

The QuantumCast Websockets allows subscribing for meta-data events on QuantumCast audio streams.

Default URL endpoint for websockets services is: `wss://playerservices.streamabc.net`

The websocket endpoint uses `wss-Protocol`.

4.1 Metadata Events for Users Subscription

To receive meta-data events for individual users subscribe to this path: `/metadata/{userid}`

Note: In order for this to work you have to decorate the stream-url with a GET parameter `sabcsid={userid}` and start streaming.

After subscribing the server publishes messages containing a JSON object as payload.

4.2 Metadata Events for Channel Subscription

To receive meta-data events for specific channels subscribe to this path: `/metachannel/{channelkey}`

Please use the channel key provided by QuantumCast.

4.3 Metadata Events for Station Subscription

To receive meta-data events for specific channels subscribe to this path: `/metastation/{stationid}`

Please use the station-id provided by QuantumCast.

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CHAPTER 5

SDK for Playerservices

Our [QuantumCast Javascript-SDK for Playerservices](#) enables you to receive meta data to display in your player in real-time.

The full developer documentation as well as examples for Radioplayer and stand-alone players are *available on Github*.

For more information, please open a ticket:

Visit our company website:

CHAPTER 6

SDK for Radio

Our [QuantumCast Javascript-SDK for Radio](#) enables you to integrate our skipping-enabled channels into your player. The full developer documentation as well as examples for Radioplayer and stand-alone players are *available on Github*.

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CHAPTER 7

Country-specific parts for costumers

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CHAPTER 8

Indices and tables

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