

# API overview

- [API URLs](#)
- [Settings](#)
  - [Ports](#)
  - [Cross-domain requests](#)
  - [Authorization](#)
- [Testing](#)
- [OpenAPI specification](#)

## API URLs

Web Call Server uses two URLs for REST API

HTTP	HTTPS
<a href="http://host:8081/rest-api">http://host:8081/rest-api</a>	<a href="https://host:8444/rest-api">https://host:8444/rest-api</a>

To invoke the REST API, you have to make request using the following format:

- Protocol: HTTP or HTTPS
- Content Type: application/json
- Method: POST
- Body: JSON

## Settings

### Ports

By default, server accepts REST HTTP requests on 8081 TCP port and REST HTTPS requests on 8444 TCP port. Those values are defined with the following settings in [flashphoner.properties](#) file

```
http.port=8081
https.port=8444
```

### Cross-domain requests

Cross-domain request are managed with the following settings in [flashphoner.properties](#) file

```
rest_access_control_allow_origin=*
rest_access_control_allow_headers=content-type,x-requested-with
rest_access_control_allow_methods=POST
```

By default, cross-domain requests from any address are allowed, to make port redirection work.

### Authorization

REST API requests are handled without user authorization by default. HTTP basic authorization may be enabled with the following parameter in [flashphoner.properties](#) file if necessary

```
disable_rest_auth=false
```

When authorization is enabled, REST API users are managed from [WCS core CLI](#).

For cross-domain requests, custom headers have to be added using the following parameter in [flashphoner.properties](#) file:

```
rest_access_control_headers=Access-Control-Allow-Origin: <origin>;Access-Control-Allow-Credentials: true;Access-Control-Allow-Methods: GET, POST, PUT, DELETE, OPTIONS;Access-Control-Allow-Headers: Origin, X-Requested-With, Content-Type, Accept, Authorization
```

Here <origin> is the request source, e.g. <http://test.flashphoner.com>.

# Testing

For testing purpose you can use a REST client. I.e. [Advanced REST Console](#) for browser Google Chrome.

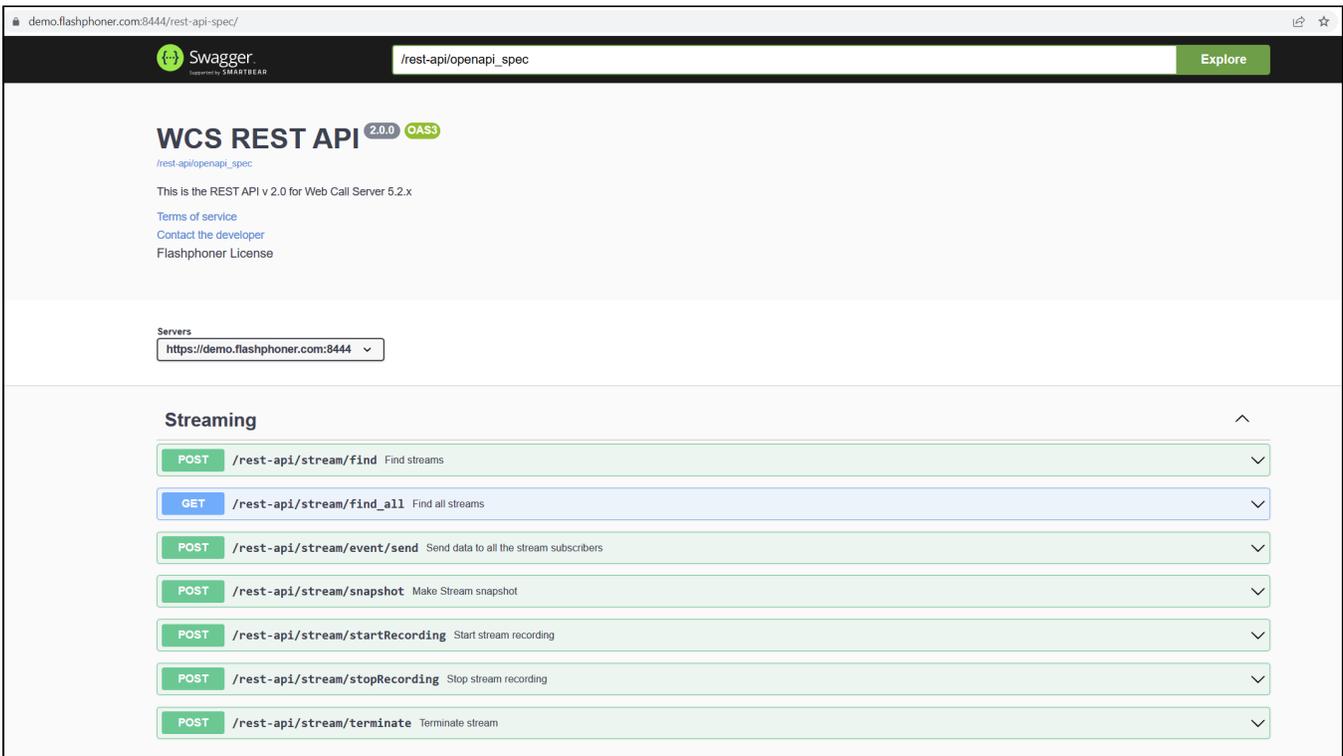
On the screenshot below you can see how to get list of streams by REST API using REST method/stream/find\_all

The screenshot displays the Advanced REST Client interface. At the top, the Method is set to POST and the URL is `http://demo.flashphoner.com:8081/rest-api/stream/find_all`. Below this, there are tabs for HEADERS, BODY, AUTHORIZATION, and VARIABLES. The HEADERS tab is active, showing a single header: `Content-Type: application/json`. The Response section shows a status of 200 OK, a size of 1008 B, and a time of 355 ms. The response body is a JSON object with the following structure:

```
1 - [
2 - {
3     "appKey": "flashStreamingApp",
4     "sessionId": "/36.71.175.77:63690/188.40.244.249:1935",
5     "mediaSessionId": "02d63bad-0a05-4ea6-b3be-c616cd44529d",
6     "name": "123",
7     "published": true,
8     "hasVideo": true,
9     "hasAudio": true,
10    "status": "PUBLISHING",
11    "sdp": "v=0\r\no=- 1988962254 1988962254 IN IP4 0.0.0.0\r\ns=- IN IP4 0.0.0.0\r\nm=0 0\r\na=sdplang:en\r\nm=video 0 RTP/AVP 119
127\r\na=rtpmap:119 H264/90000\r\na=fmtp:119 profile-level-id=42e01f;packetization-mode=1\r\na=rtpmap:127 FLV/90000\r\na
=sendonly\r\nm=audio 0 RTP/AVP 97 8 0\r\na=rtpmap:97 SPEEX/16000\r\na=rtpmap:8 PCMA/8000\r\na=rtpmap:0 PCMU/8000\r\na
=sendonly\r\n",
12    "audioCodec": "mpeg4-generic",
13    "videoCodec": "H264",
14    "record": true,
15    "recordName": "stream-02d63bad-0a05-4ea6-b3be-c616cd44529d-b761as0rig0jvboenn0d0jjo.mp4",
16    "width": 1920,
17    "height": 1080,
18    "bitrate": 0,
19    "minBitrate": 0,
20    "maxBitrate": 0,
21    "quality": 0,
22    "history": false,
```

# OpenAPI specification

Since build [5.2.1343](#) REST API can be displayed and tested according to OpenAPI 3 specification. OpenAPI specification file can be downloaded by URL [https://demo.flashphoner.com:8444/rest-api/openapi\\_spec](https://demo.flashphoner.com:8444/rest-api/openapi_spec) in YAML format, UI is available by URL <https://demo.flashphoner.com:8444/rest-api-spec/>, where `demo.flashphoner.com` is WCS server address



Every REST API query can be explored and tested using Swagger UI



Required fields are marked by \* character on Schema tab.

# Streaming

POST /rest-api/stream/find Find streams

Find streams by filter

## Parameters

Try it out

No parameters

Request body **required**

application/json

Example Value | Schema

```
StreamFilter {
  custom > {...}
  nodeId > {...}
  appKey string
  sessionId string
  mediaSessionId* string
  name* string
  published example: streamI boolean
  status string
  Enum:
  display > Array [ 11 ]
  customMap > {...}
}
```