

API overview

API URLs

Web Call Server uses two URLs for REST API

HTTP	HTTPS
<code>http://host:8081/rest-api</code>	<code>https://host:8444/rest-api</code>

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, for example [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`

Method

POST

URL

http://demo.flashphoner.com:8081/rest-api/stream/find_all

SEND

HEADERS

BODY

AUTHORIZATION

VARIABLES

Name

Value

Content-Type

application/json

Name

Value

Response

200 OK

1008 B

355 ms

Access-Control-Allow-Origin: *

Content-Type: application/json

Content-Length: 904

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

{

"appKey": "flashStreamingApp",

"sessionId": "/36.71.175.77:63690/188.40.244.249:1935",

"mediaSessionId": "02d63bad-0a05-4ea6-b3be-c616cd44529d",

"name": "123",

"published": true,

"hasVideo": true,

"hasAudio": true,

"status": "PUBLISHING",

"sdp": "v=0\r\no=- 1988962254 1988962254 IN IP4 0.0.0.0\r\nnc=IN IP4 0.0.0.0\r\nnt=0 0\r\na=sdplang:en\r\na=video 0 RTP/AVP 119 127\r\na=rtmpmap:119 H264/90000\r\na=fmtp:119 profile-level-id=42e01f;packetization-mode=1\r\na=rtmpmap:127 FLV/90000\r\na=sendonly\r\na=audio 0 RTP/AVP 97 8 0\r\na=rtmpmap:97 SPEEX/16000\r\na=rtmpmap:8 PCMA/8000\r\na=rtmpmap:0 PCMU/8000\r\na=sendonly\r\n",

"audioCodec": "mpeg4-generic",

"videoCodec": "H264",

"record": true,

"recordName": "stream-02d63bad-0a05-4ea6-b3be-c616cd44529d-b761as0rig0jjvboenn0d0jjo.mp4",

"width": 1920,

"height": 1080,

"bitrate": 0,

"minBitrate": 0,

"maxBitrate": 0,

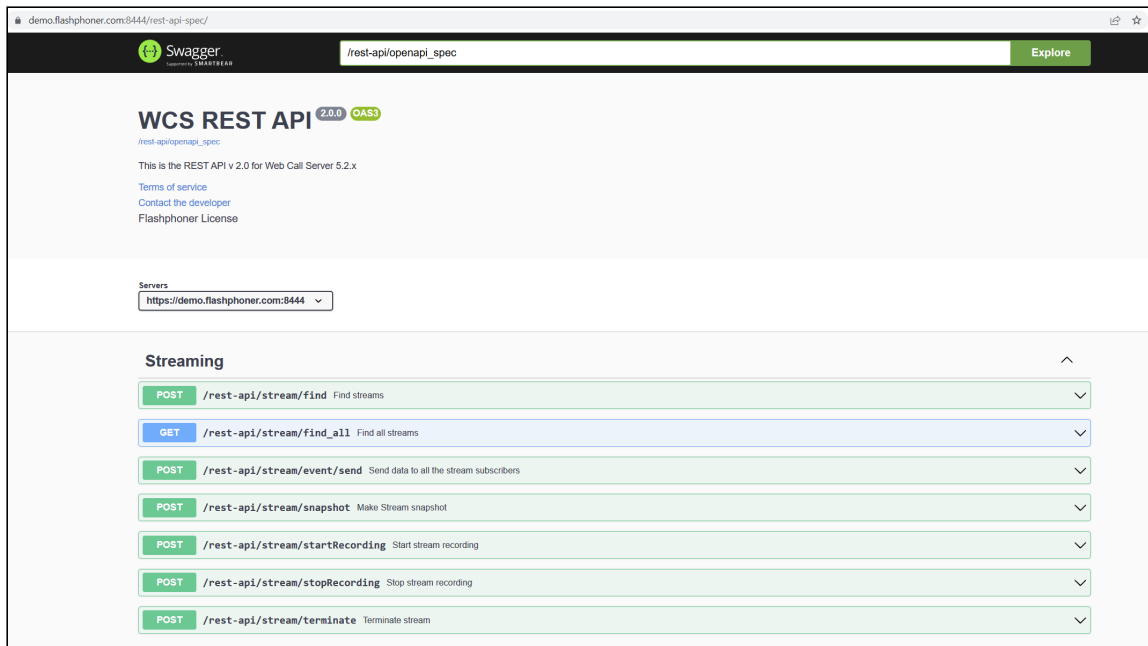
"quality": 0,

"history": false,

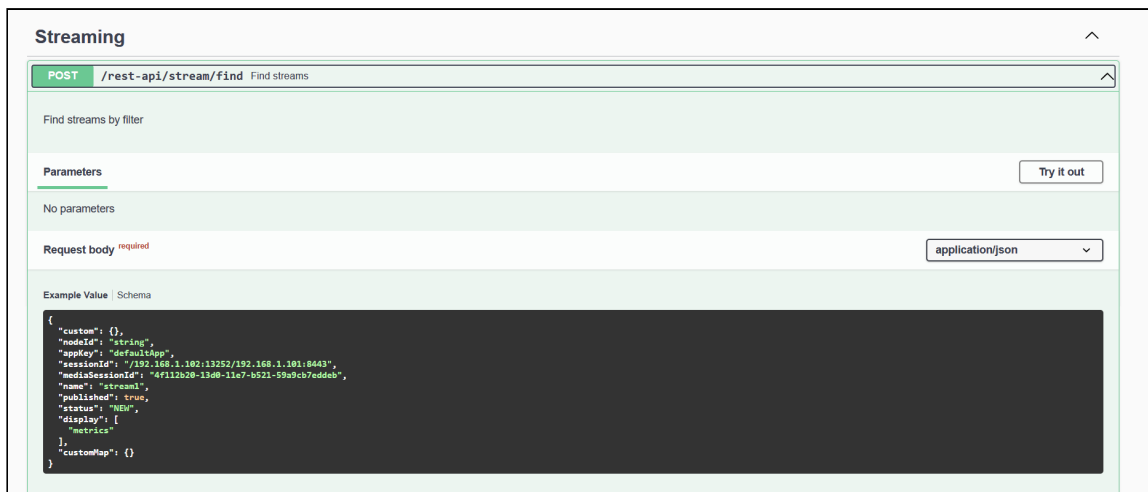
}

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 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/findFind streams

Find streams by filter

Parameters

Try it out

No parameters

Request bodyrequired

application/json

Example ValueSchema

StreamFilter {

custom> {...}

nodeIdstringexample: OrderedMap {}

appKeystringexample: defaultApp

sessionIdstringexample: /192.168.1.102:13252/192.168.1.101:8443

mediaSessionId*stringexample: 4f112b20-13d0-11e7-b521-59a9cb7eddeb

name*stringexample: stream1

publishedboolean

statusstringEnum:

display> Array [11]

customMap> [...]

customMap> {...}

}example: OrderedMap {}