API overview

API URLs

Web Call Server uses two URLs for REST API

HTTP	HTTPS
`http://host:8081/rest-api`	`https://host:8444/rest-api`

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`
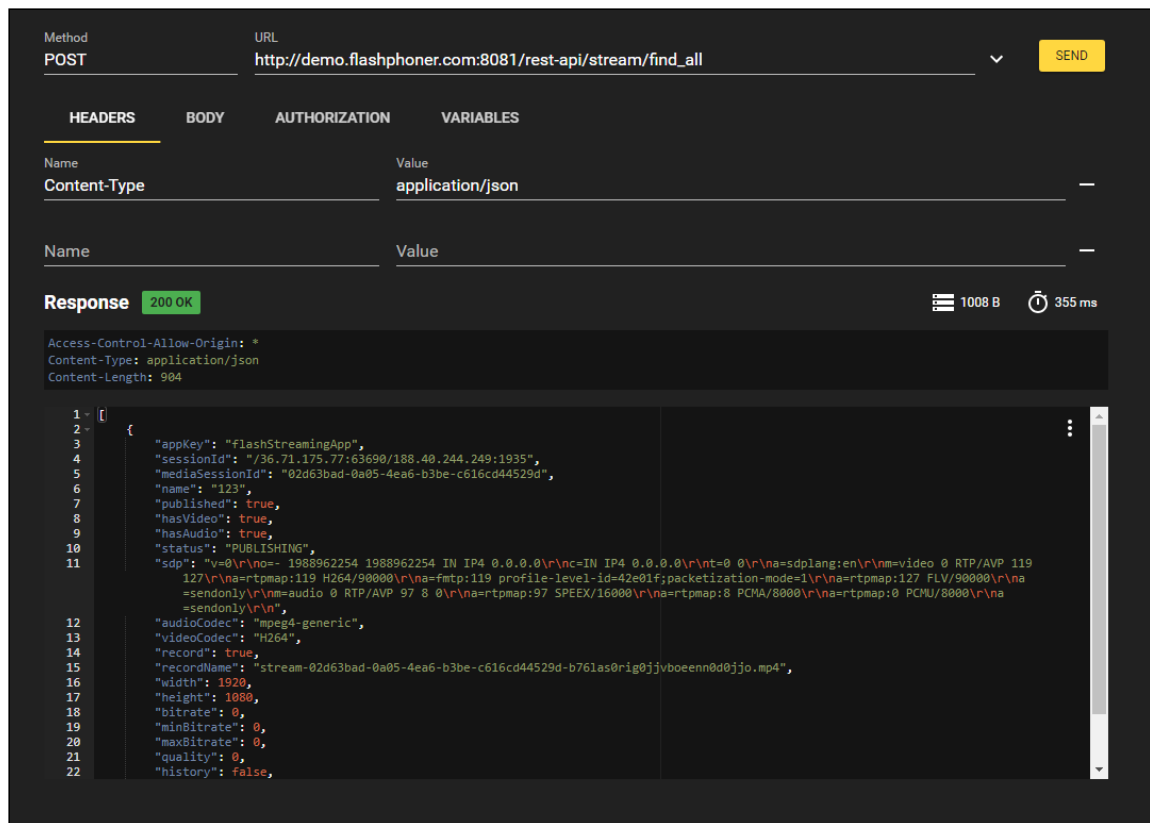
OpenAPI specification

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
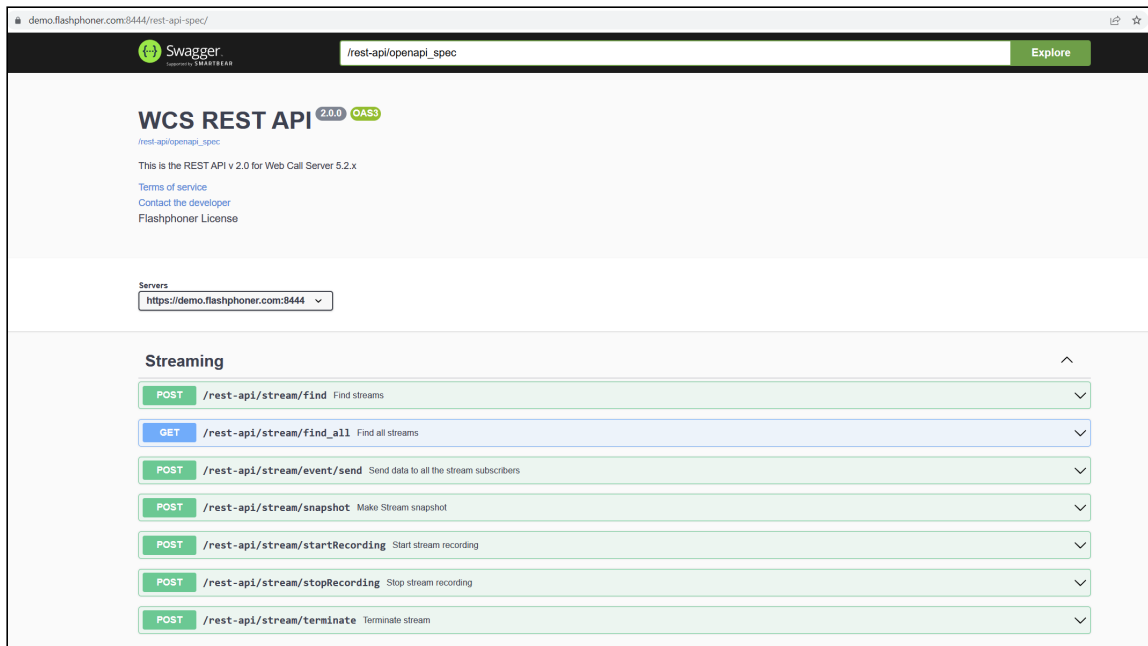
Every REST API query can be explored and tested using Swagger UI
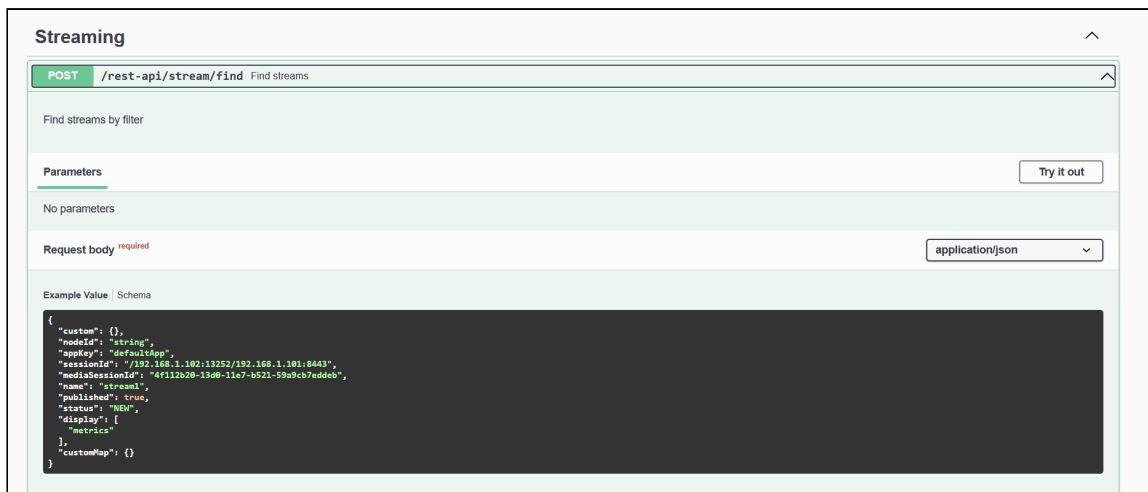
Required fields are marked by `*` character on `Schema` tab.

Streaming ⌃

POST `/rest-api/stream/find` Find streams ⌃

Find streams by filter

Parameters   [Try it out]

No parameters

Request body required   [application/json ⌄]

Example Value | Schema

```
StreamFilter ⌄ {
    custom
                        > {...}
                        example: OrderedMap {}
    nodeId              string
    appKey              string
                        example: defaultApp
    sessionId           string
                        example: /192.168.1.102:13252/192.168.1.101:8443
    mediaSessionId*     string
                        example: 4f112b20-13d0-11e7-b521-59a9cb7eddeb
    name*               string
                        example: stream1
    published           boolean
    status              string
                        Enum:
                        > Array [ 11 ]
    display             > [...]
    customMap           > {...}
                        example: OrderedMap {}
}
```

POST `/rest-api/stream/find` Find streams ⌃