Entry System 3 / Invitation System
API Documentation : OC - Base

Version API concerned : 1.8.0

History Changes

Date	Revision	Who	What
30.01.2019	1.0.0	RMG	Document creation
02.04.2019	1.0.1	RMG	Added '/sessions-delegate' route infos.
16.07.2019	1.02	LEN	Update schema

Entry System 3 / Invitation System

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I. Introduction

The aim of this document is to provide the basic knowledge to the developers working at or for a National Federation in order to use the Entry System 3 API (ES3 API).

The ES3 API is provided to automate the management of entries between the NFs' IT system and the FEI's Entry System.

The input objects are described in "8 - Input objects" documentation and the output objects are described in "9 - Output objects".

II. API overview

Available environnements:

- Integration: https://**i**es3-api.fei.org
- Validation: https://**v**es3-api.fei.org
- Production: https://es3-api.fei.org

How to use the API

The ES3 API has been designed in a RESTful way, so the user experience is simple and straightforward. You are able to:

- Submit data with an HTTP POST request
- Retrieve data with an HTTP GET request
- Update data with an HTTP PATCH request
- Delete data with an HTTP DELETE request

Requests must be sent using Content-Type "application/json". The request and response body encoding is always UTF-8.

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Response codes

The following HTTP codes are used by the API to respond to requests:

Response HTTP Code	Description
200/201	Request successful
400	Any kind of logical error with your request (missing parameters, invalid operation, constraint violation etc.)
401	Access is unauthorized (authentication failure)
403	Access is forbidden (insufficient rights)
404	Resource not found
405	HTTP method not allowed
422	Business logic issue (e.g.: athlete not registered)
500	Internal server error - we advise you to try again later, or contact the FEI support team (usersupport@fei.org) if the problem persists

Error Object

You may get a detailed error description inside a JSON object.

Property	Description
http_code	One of the HTTP codes described above.
code	A business logic code (e.g. "TOKEN_NOT_FOUND", "BAD_REQUEST"...)
message	A human-friendly message
details	Sometimes, this property is present in the JSON error object to provide you with more informations about the error.

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Common headers

The headers described below are available on all endpoints.

Header	Request or Response	Required	Description
Authorization	Request	Yes	User Bearer token
Accept-Language	Request	No	Language accepted by the client application. Default is "en".
Content-Language	Response	/	Language returned by the API (Accept-Language value)
Content-Type	Response	/	application/json
X-API-Version	Request, Response	No	API version to use/used
Date	Request, Response	No	Date of request creation or returned response

Pagination headers

On some endpoints, the following headers are available to paginate the results.

X-Total-Count	Response	/	Maximum number of elements
X-Count	Response	/	Number of elements returned
X-Current-Page	Response	/	Returned current page
X-Current-Items-Per-Page	Response	/	Returned items per page
X-Current-Sort	Response	/	Returned sort

Parameters

All parameters are sent in a JSON object in the body of the request.

III.   Authentication

API authentication

First, you need to authenticate as an API client application through the "login" endpoint.
See the list of endpoints to get more informations about the required credentials and the response returned.

User authentication

Once the App authentication is done, an application **bearer token** will be returned to you. Then you will be able to call the "sessions" endpoint to open a session as a human user. Once again, you will get a bearer token to call the protected endpoints.
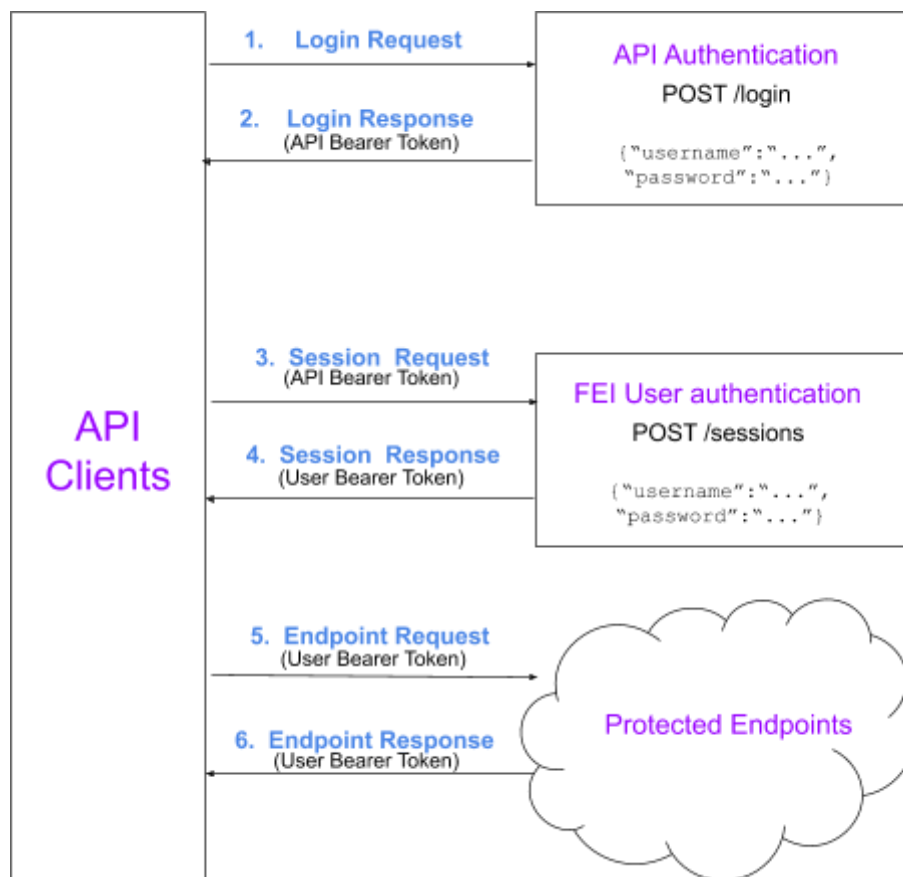
Authentication process

- Login requests requires APP ID as a username. Example : OC_WS.
- Session requests requires a valid FEI ID and the related password, you should also include the application bearer token received through the Login route. You will receive a new bearer token identifying your FEI ID user.
- End point requests should include the user bearer token identifying your FEI ID user.

Bearer token and expiration

The bearer token is a JWT. You can decode the JWT to extract the data it contains.

Token includes data for the login/user connected which might be useful. It also includes expiration time ('exp') and creation time ('iat').

For example, the **expiration time** decoded through jwt.io website.

```
"exp": 1548488437,    Sat Jan 26 2019 08:40:37 GMT+0100 (Central European Standard Time)
"iat": 1547624437
```

As the token does not expires directly (default lifetime is 10 days but this can change in the future), it is recommended to store it if possible to reduce the number of request to the server.

When the token expires, an error "401 - TOKEN_NOT_VALID - The bearer token is not valid" is returned.

IV. Endpoints

A - Authentication

A1 - Authenticates an API client application (POST)

Main Information

Method	POST
Path	/login
Client access	No restriction
HTTP code if successful	200
Description	Login route to receive a valid API client Token after posting valid credentials. **The bearer token returned can be retrieved in the response headers.**
Returned Data	API bearer token

Parameters

Name	Type	Required	Description
username	String	Yes	API Client user
password	String	Yes	API client user password

Headers

Common headers, Authorization is not required for this endpoint

Errors

HTTP Code	Code	Message
400	BAD_REQUEST	Invalid Parameter
401	BAD_CREDENTIALS	Bad credentials
405	METHOD_NOT_ALLOWED	No route found for '[route_name]': Method Not Allowed (Allow: '[method accepted]')

A2 - Sets or changes the FEI user associated to further requests (POST)

Main information

Method	POST
Path	/sessions
Client access	All API Clients except ES3 Mobile
HTTP code if successful	200
Description	Session route to set or change the FEI user associated to requests. A valid Application token is required. **Created token can be retrieved in the response headers.**
Returned Data	Body response empty

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Parameters

Name	Type	Required	Description
username	String	Yes	Use user FEI ID here.
password	String	Yes	Password matching with the given username

Headers

Common headers

Errors

HTTP Code	Code	Message
400	BAD_REQUEST	Invalid Parameter
401	BAD_CREDENTIALS	Bad credentials
401	TOKEN_NOT_FOUND	The bearer token is missing from the headers
401	TOKEN_NOT_VALID	The bearer token is not valid
405	METHOD_NOT_ALLOWED	No route found for '[route_name]': Method Not Allowed (Allow: '[method accepted]')

A3 - Changes the role the current user will act as (POST)

Main information

Method	POST
Path	/session-act-as
Client access	All API Clients
User access	All users
HTTP code if successful	200
Description	Route to change the role the current user will act as if the user is allowed to act with multiple roles (FEI, OC, NF, Athlete etc.) **An updated token can be retrieved in the request headers.**
Returned Data	Body response empty

Parameters

Name	Type	Required	Description
act_as	String	Yes	New role to use. Possible values: "fei", "oc", "nf", "official", "athlete", "ath_manager or "groom"

Headers

Common headers

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Errors

HTTP Code	Code	Message
400	BAD_REQUEST	Invalid Parameter
400	BAD_REQUEST	The 'act_as' parameter is not valid.
401	BAD_CREDENTIALS	Bad credentials
401	TOKEN_NOT_FOUND	The bearer token is missing from the headers
401	TOKEN_NOT_VALID	The bearer token is not valid
405	METHOD_NOT_ALLOWED	No route found for '[route_name]': Method Not Allowed (Allow: '[method accepted]')

A4 - Returns user authorizations (GET)

Main information

Method	GET
Path	/user/authorizations
Client Access	All API Clients
User access	All users
HTTP code if successful	200
Description	Returns the entry actions the connected user can perform depending on his permissions.
Returned Data	Array of Entry action codes

Headers

Common headers

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Errors

HTTP Code	Code	Message
401	TOKEN_NOT_FOUND	The bearer token is missing from the headers.
401	TOKEN_NOT_VALID	The bearer token is not valid.
401	MSG_BAD_CREDENTIALS	Bad credentials
403	ACCESS_DENIED	The current user is not allowed to reach this route.
405	METHOD_NOT_ALLOWED	No route found for '[route_name]': Method Not Allowed (Allow: '[method accepted]'')

A5 - Generate OC with NF Delegate rights token (POST)

Main information

Method	POST
Path	/sessions-delegate/{show_code}
Client Access	All API Clients
User access	OC Admin user only.
HTTP code if successful	201
Description	Returns a new 'OCNF' token (OC with NF delegate rights to acting as NF on event where permitted)

Returned Data	None, authorization bearer in response headers. The token has a new filled property, the events in array are the events where the OC has the delegated rights.
	
	`nfDelegatedRights => array(`
	`    'SHOW_CODE' => array('EVENT_CODE_1', 'EVENT_CODE_2)`
	`)`
	
	This new token can only be used on event routes of the provided show in url (where the OC has the right NF permissions). /user/athletes and /user/horses PATCH for registration action are also allowed.
	
	The OC can do everything Home NF does on a event with this token.

Headers

Common headers

Errors

HTTP Code	Code	Message
401	TOKEN_NOT_FOUND	The bearer token is missing from the headers.
401	TOKEN_NOT_VALID	The bearer token is not valid.
401	BAD_CREDENTIALS	Bad credentials
403	ACCESS_DENIED	The current user is not allowed to reach this route.
404	SHOW_NOT_FOUND	Show not found
405	METHOD_NOT_ALLOWED	No route found for '[route_name]': Method Not Allowed (Allow: '[method accepted]'')

V. List of others documentations

- 0 - Examples
- 2 - Athletes
- 3 - Horses
- 4 - Invitations
- 5 - Events
- 6 - Shows
- 7 - Entries
- 8 - Input objects
- 9 - Output objects

I. Diagram

Resources shared between NF documentation and OC documentation have the same indexation.

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Base
- B1 - Authentification
- B2 - Get session for user
- B3 - Change actor user
- B4 - List user authorizations

Athletes
- A5 - Search athlete for an event

Horses
- H2 - Search horses in event

Shows   S1 - Get all shows
- S2 - Get shows list
- S3 - Show details
- S4 - Get show's events list

Events
- Ev1 - Get all events
- Ev2 - Get an event
- Ev3 - Get entries authorization for an event
- Ev4 - Get event logs
- Ev5 - Get events in CSV
- Ev6 - Get young rider for an event
- Ev7 - Get event master list

Entries
- En1 - Get show entries
- En2 - Get event entries
- En3 - Get or update an entry with an event
- En6 - Get all show entries in PDF file
- En7 - Get all event entries as a file

Invitations
- I1 - Invitations weeks
- I2 - List user invitations

ES3 / IS API