

FEI Certified Service Provider

API Specification

Dressage – Paperless Judging Solution



**FÉDÉRATION
ÉQUESTRE
INTERNATIONALE**

Quick Summary Dressage Paperless Judging API

The following requests need to be implemented. We use [GraphQL](#). If you haven't worked with it before, here is a [good start](#).

Endpoints:

These endpoints are available to you.

Production: <https://api-b.fei.org>

Test: <https://api-b-test.fei.org>

General Requests:

UpdateFeiCompetitonStartingTime

FinalizeFeiCompetition

Discipline-specific Requests:

CreateOrUpdateFeiDressageStartlist

CreateOrUpdateFeiCompetitionJudges

CreateOrUpdateFeiMarks

CreateOrUpdateFeiScoresheet

Changes:

- 06.03.24:
 - Clarified the time zone in which times are to be sent
 - Added a note for sending null as **competitorPercentage** in case of a ruled out competitor state
- 20.12.23:
 - Deprecated **artisticPenalty (boolean)** in favor of **artisticPenalties (integer)** to allow multiple penalties in the future.
- 11.10.23:
 - Added **competitorPercentage** to **CreateOrUpdateFeiScoresheet** input
- 29.07.22:
 - Deprecated **technicalPenalty** in favor of **technicalPenalties**
 - **firstErrorOfCourse** and **secondErrorOfCourse** can now be sent as an Integer **errorsOfCourse**

- 03.06.22:
 - Added **publishingStatus** to **StartlistInput** to allow control over visibility
 - Elaborated the process of altering startlists
- 22.09.21:
 - Elaborated how to rule out (eliminate, withdraw, retire, disqualify) a competitor
- 23.08.21:
 - Changed time format (e.g. **startingTime**) from yyyy-dd-mm to yyyy-mm-dd
 - Removed **CompetitionJudgesInput** type since it is no longer needed
- 04.06.21:
 - Removed **authenticateWithFeiToken** and **refreshJWT** since it should no longer be needed
 - Added position to **ScoresheetInput**
 - Added timestamp to both **ScoresheetInput** and **MarkInput** to prevent stale data (this is a unix timestamp in milliseconds)
 - Updated description of 4.
 - Updated description of 5.
 - Removed **type** from **MarkInput**

Intro to GraphQL

GraphQL is a query language for APIs. It allows the client to control what data the server returns. At its simplest GraphQL is about asking for specified fields and objects.

1. Schemas

A GraphQL service is created on a server by defining types and fields on those types. Here is an example we will use for this introduction:

```
type Query {
  hero(id: ID!): Hero
}

type Mutation {
  updateName(name: String!): Hero
}

type Hero {
  id: ID!
  name: String!
  friends: [Friend]
  friend: [Friend]
}
```

```
type Friend {
  id: ID
  name: String
}
```

We define multiple types here. The types “Query” and “Mutation” are special types, which we will explore below. “Hero” and “Friend” are types which define objects on our server. You as a client do not have to define any of that, it is just here for clarification.

2. Queries

Queries are a way to fetch data by executing a specific query and asking about certain fields. Here is a very simple example of a query:

```
query GetFirstHero {
  hero {
    name
    friends {
      name
    }
  }
}
```

Our request starts with “`query GetFirstHero`”, which tells GraphQL that we want to execute an operation with a specific name (“query” is the operation type and “GetFirstHero” is the operation name). The operation name is optional for single queries, but is encouraged because it is very helpful for debugging. Its name can be chosen freely by the client. Nested inside we use the defined query “hero” without any arguments and request two fields on the object: “name” and “friends”. On the nested “Friend” object we request only “name”.

This an example response:

```
{
  "data": {
    "hero": {
      "name": "R2-D2",
      "friends": [
        {
          "name": "Luke Skywalker"
        },
        {
          "name": "Han Solo"
        },
        {
          "name": "Leia Organa"
        }
      ]
    }
  }
}
```

3. Mutations

Mutations are, by convention, queries which alter the state on the server. Just like in queries, if the mutation field returns an object type (e.g. “Hero”), we can ask for fields like we did above.

Here is an example:

```
mutation UpdateHeroName($name: String!) {  
  updateName(name: $name) {  
    name  
  }  
}  
  
{  
  "name": "Superman"  
}
```

Our request starts with “`mutation UpdateHeroName($name: String!)`”, which tells GraphQL that we want to execute mutation operations. We then define the arguments this operation needs. In our case we need a variable called “`$name`” of type “`String`” (the name of this variable can be chosen freely as long as it is prefixed with “`$`”). The “`!`” denotes that this argument isn’t optional (this has to match the mutation definition in Section 1). Nested inside we then define the mutation we want to use on the server. In this case we want to use “`updateName`” with the non-optional argument “`name`”, for which we provide our variable “`$name`”. Finally outside the mutation block we provide values to our defined variables. In this case we only need a value for the one variable called “`$name`”. Notice that this is defined without the prefixed “`$`”.

Here is an example for a response:

```
{  
  "data": {  
    "updateName": {  
      "name": "Superman",  
    }  
  }  
}
```

API Documentation

All requests go through protected endpoints. A valid bearer token is required to access them. You will need to retrieve an access token from the FEI to proceed with the requests below. Learn more about JWTs [here](#). Please use the JWT in the Authorization Header with “Bearer ey...” in the following calls.

All mutations return an object on success. This object can be queried to confirm your changes or to update your client with the values returned.

If you don’t need any values, you can just query any singular field (e.g. “id”) and only check for errors in the response.

If a request is not successful, it will return an error description. Errors are logged. If your code produces extraordinarily many errors, you are requested to update your code in order to stay certified.

1. Update Competition Starting Times

Every time a competition time is updated, please execute this mutation. Times are to be provided in UTC0.

Competition Mutation (with example fields/input):

```
mutation UpdateFeiCompetitonStartingTime($feiCompetitionCode: String!,
                                          $startingTime: String!) {
  updateFeiCompetitionStartingTime(feiCompetitionCode: $feiCompetitionCode,
  startingTime: $startingTime) {
    zonedInstant {
      instant
    }
    feiCompetitionCode
  }
}
```

```
{
  "feiCompetitionCode": "2020_CI_1473_D_Y_01_02",
  "startingTime": "2020-01-24T10:00:00Z"
}
```

Response:

```
{
  "data": {
    "updateFeiCompetitionStartingTime": {
      "zonedInstant": {
        "instant": "2020-01-24T10:00:00Z"
      },
      "feiCompetitionCode": "2020_CI_1473_D_Y_01_02"
    }
  }
}
```

2. Start lists and Competition Judges need to be pushed at the latest 2 hours after the draw

Startlist Mutation (with example fields/input):

You can control the visibility of the startlist by changing its `publishingStatus`. Every time the start list is sent, it overwrites properties of existing competitors, but deletes competitors which are no longer in the list. So please be careful to always push a complete list. To completely remove a startlist you can just send an empty list. Times are to be provided in UTC+0.

```
mutation CreateOrUpdateFeiDressageStartlist($feiCompetitionCode: String!,
                                           $startlist: StartlistInput!) {
  createOrUpdateFeiDressageStartlist(feiCompetitionCode: $feiCompetitionCode,
  startlist: $startlist) {
    cno
    zonedInstant {
      instant
    }
    athlete {
      feiId
    }
    horse {
      feiId
    }
  }
}

{
  "feiCompetitionCode": "2020_CI_1473_D_Y_01_02",
  "startlist": {
    "publishingStatus": "PUBLISHED_CONFIRMED",
    "competitors": [
      {
        "athleteFeiId": 10055662,
        "horseFeiId": "102PQ38",
        "startingTime": "2020-01-24T10:00:00Z",
        "cno": 420
      },
      ...
    ]
  }
}
```

Response:

```
{
  "data": {
    "createOrUpdateFeiDressageStartlist": [
      {
        "cno": 420,
        "zonedInstant": {
          "instant": "2020-01-24T10:00:00Z"
        },
        "athlete": {
          "feiId": 10055662
        },
        "horse": {
          "feiId": "102PQ38"
        }
      }
    ]
  }
}
```

Publishing Status:

```
enum PublishingStatus {
  NOT_PUBLISHED
  PUBLISHED_WITHOUT_COMPETITORS
  PUBLISHED_WITHOUT_ORDER
  PUBLISHED_PROVISIONAL
  PUBLISHED_CONFIRMED
}
```

Competition Judges Mutation (with example fields/input):

```
mutation CreateOrUpdateFeiCompetitionJudges($feiCompetitionCode: String!,
                                           $competitionJudges:
[FeiCompetitionJudge]!) {
  createOrUpdateFeiCompetitionJudges(feiCompetitionCode: $feiCompetitionCode,
  competitionJudges:
    $competitionJudges) {
    position
    judge {
      feiId
    }
  }
}

{
  "feiCompetitionCode": "2020_CI_1473_D_Y_01_02",
  "competitionJudges": [
    {
      "judgeFeiId": 10050583,
      "position": "C"
    }
  ]
}
```


Response:

```
{
  "data": {
    "createOrUpdateFeiCompetitionJudges": [
      {
        "position": "c",
        "judge": {
          "feiId": 10050583
        }
      }
    ]
  }
}
```

3. Any updates to Competition Starting Time changes, Start lists or Competition Judges need to be pushed through the same provided endpoint.

4. Update Marks in realtime

The request needs to be confirmed with a HTTP Status code 200 response. If you don't receive this response, you either need to resend it or fix any issues that are hinted through the error code or error response. Although our data will reject old data (by timestamp), this request should only contain updated/new marks.

Please note: Exercises are numbered without gaps. Collectives do not restart the sequence, but Assessments start at 1 again! Only submit base marks, no need to multiply with coefficients first.

Marks Mutation (with example fields/input):

```
mutation CreateOrUpdateFeiMarks($feiCompetitionCode: String!,
                                $cno: Int!,
                                $marks: [MarkInput]!) {
  createOrUpdateFeiMarks(feiCompetitionCode: $feiCompetitionCode, cno: $cno, marks:
    $marks) {
    judgeResult {
      competitionJudge {
        position
      }
    }
    number
    comment
    mark
    timestamp
  }
}
```

```
{
  "feiCompetitionCode": "2020_CI_1473_D_Y_01_02",
  "cno": 420,
  "marks": [
    {
      "position": "C",
      "number": 31,
      "comment": "more over the back",
      "timestamp": 1622822329000,
      "mark": 7.5
    }
  ]
}
```

Response:

```
{
  "data": {
    "createOrUpdateFeiMarks": [
      {
        "judgeResult": {
          "competitionJudge": {
            "position": "c"
          }
        },
        "number": 31,
        "comment": "more over the back",
        "mark": 7.5,
        "timestamp": "1622822329000"
      }
    ]
  }
}
```

5. At the end of a test, the following needs to be sent.

Please note: Exercises are numbered without gaps. Collectives do not restart the sequence, but Assessments start at 1 again! Only submit base marks, no need to multiply with coefficients first.

competitorPercentage can be used to submit your calculated final percentage for the competitor (will be the same for all judges).

ScoreSheet Mutation (with example fields/input):

```
mutation CreateOrUpdateFeiScoreSheet($feiCompetitionCode: String!,
                                     $cno: Int!,
                                     $scoreSheet: ScoreSheetInput!) {
  createOrUpdateFeiScoreSheet(feiCompetitionCode: $feiCompetitionCode, cno: $cno,
                              scoreSheet: $scoreSheet) {
    competitionJudge {
      position
    }
    finalScore
    technicalPenalties
    artisticPenalties
    errorsOfCourse
    status
    comment
    timestamp
    markedExercises {
      number
      mark
      comment
      timestamp
    }
  }
}
```

```
{
  "feiCompetitionCode": "2020_CI_1473_D_Y_01_02",
  "cno": 420,
  "scoreSheet": {
    "position": "C",
    "competitorPercentage": 79.323,
    "percentage": 82.235,
    "technicalPenalties": 0,
    "artisticPenalties": 0,
    "errorsOfCourse": 0,
    "status": "FINISHED",
    "comment": "Great piaffes and passage, could be more suppl.",
    "timestamp": 1622822329000,
    "marks": [
      {
        "position": "C",
        "number": 31,
        "mark": 7.5,
        "comment": "more over the back",
        "timestamp": 1622822329000
      }
    ]
  }
}
```

```

    }
  ]
}

```

Response (shortened):

```

{
  "data": {
    "createOrUpdateFeiScoresheet": {
      "competitionJudge": {
        "position": "c"
      },
      "finalScore": 82.235,
      "technicalPenalties": 0,
      "artisticPenalties": 0,
      "errorsOfCourse": 0,
      "status": "CONFIRMED",
      "comment": "Great piaffes and passage, could be more supple.",
      "timestamp": "1622822329000",
      "markedExercises": [
        ...
        {
          "number": 31,
          "mark": 7.5,
          "comment": "more over the back",
          "timestamp": "1622822329000"
        },
        ...
      ]
    }
  }
}

```

CompetitorStatus as used in input:

```

enum CompetitorStatus {
  UPCOMING
  RUNNING
  RETIRED
  ELIMINATED
  DID_NOT_COMPETE
  DISQUALIFIED
  FINISHED
}

```

ResultOfficialStatus as used in this output example - this is determined automatically on FEI side:

```

enum ResultOfficialStatus {
  NONE
  MARKING
  PROVISIONAL
}

```

CONFIRMED

}

6. Any change in competitor status (Retired, Eliminated, Withdrawn or Disqualified) can be pushed by the endpoint provided in 5.

Please note: Changes in competitor status can only be done by the Judge at C and thus the position in the request needs to be "C". See below for an example of how to eliminate a competitor. The procedure for Retiring, Withdrawal (DID_NOT_COMPETE) and Disqualification is the same. If this was done by mistake it can be reverted by using a status of RUNNING. If the competitor was FINISHED before being ruled out by C you need to send RUNNING as C and then confirm (FINISHED) all Judges with their scores again. If a competitor is ruled out you may send **competitorPercentage** as null if it was sent with a value before.

Elimination Mutation (with example fields/input):

```
mutation CreateOrUpdateFeiScoresheet($feiCompetitionCode: String!,
                                     $cno: Int!,
                                     $scoresheet: ScoresheetInput!) {
  createOrUpdateFeiScoresheet(feiCompetitionCode: $feiCompetitionCode, cno: $cno,
                              scoresheet: $scoresheet) {
    id
  }
}

{
  "feiCompetitionCode": "2020_CI_1473_D_Y_01_02",
  "cno": 420,
  "scoresheet": {
    "position": "C",
    "technicalPenalties": 0,
    "artisticPenalties": 0,
    "errorsOfCourse": 0,
    "status": "ELIMINATED",
    "timestamp": 1622822329000,
  }
}
```

7. When a competition is formally finished, this needs to be called:

Competition Status Mutation (with example fields/input):

```
mutation FinalizeFeiCompetition($feiCompetitionCode: String!,
                                $status: CompletionStatus!,
                                $prizeMoney: [PrizeMoneyInput!]) {
  updateFeiCompetitionStatus(feiCompetitionCode: $feiCompetitionCode, status: $status,
                              prizeMoney: $prizeMoney) {
    feiCompetitionCode
  }
}
```

```

status
  ...on DressageCompetition {
    competitors {
      prizeMoney
    }
  }
}

{
  "feiCompetitionCode": "2020_CI_1473_D_Y_01_02",
  "status": "FINISHED",
  "prizeMoney": [
    {
      "cno": 420,
      "prizeMoney": 12000,
      "currency": "EUR"
    }
  ]
}

```

Response:

```

{
  "data": {
    "updateFeiCompetitionStatus": {
      "feiCompetitionCode": "54321",
      "status": "FINISHED",
      "competitors": [
        {
          "prizeMoney": "12000 EUR"
        }
      ]
    }
  }
}

```

Status:

```

enum CompletionStatus {
  UPCOMING,
  RUNNING,
  FINISHED,
  UNKNOWN
}

```

Testing

Our integration/test environment supports three shows, which are outlined below. You can use any of those values to test your implementation.

1. Wellington (2021_CI_0856)

```
{
  "show": {
    "feiId": "2021_CI_0856",
    "events": [
      {
        "feiId": "2021_CI_0856_D_S_01",
        "name": "CDI2*",
        "competitions": [
          {
            "feiCompetitionCode": "2021_CI_0856_D_S_01_01",
            "competitors": [
              {
                "cno": 13
              },
              {
                "cno": 14
              }
            ]
          },
          {
            "feiCompetitionCode": "2021_CI_0856_D_S_01_02",
            "competitors": [
              {
                "cno": 13
              }
            ]
          }
        ]
      }
    ],
    {
      "feiId": "2021_CI_0856_D_Y_01",
      "name": "CDIY",
      "competitions": [
        {
          "feiCompetitionCode": "2021_CI_0856_D_Y_01_01",
          "competitors": [
            {
              "cno": 1
            },
            {
              "cno": 2
            },
            {
              "cno": 3
            }
          ]
        },
        {
          "feiCompetitionCode": "2021_CI_0856_D_Y_01_02",
          "competitors": [

```

```

        {
          "cno": 1
        },
        {
          "cno": 2
        },
        {
          "cno": 3
        }
      ]
    },
    {
      "feiCompetitionCode": "2021_CI_0856_D_Y_01_03",
      "competitors": [
        {
          "cno": 2
        },
        {
          "cno": 1
        }
      ]
    }
  ]
},
{
  "feiId": "2021_CI_0856_D_J_01",
  "name": "CDIJ",
  "competitions": [
    {
      "feiCompetitionCode": "2021_CI_0856_D_J_01_01",
      "competitors": [
        {
          "cno": 11
        }
      ]
    },
    {
      "feiCompetitionCode": "2021_CI_0856_D_J_01_02",
      "competitors": [
        {
          "cno": 11
        }
      ]
    }
  ]
},
{
  "feiId": "2021_CI_0856_D_U25_01",
  "name": "CDIU25",
  "competitions": [
    {
      "feiCompetitionCode": "2021_CI_0856_D_U25_01_01",
      "competitors": [
        {
          "cno": 8
        },
        {
          "cno": 7
        }
      ]
    }
  ]
}

```



```

    ]
  },
  {
    "feiCompetitionCode": "2021_CI_0856_D_U25_01_02",
    "competitors": [
      {
        "cno": 7
      },
      {
        "cno": 8
      }
    ]
  },
  {
    "feiCompetitionCode": "2021_CI_0856_D_U25_01_03",
    "competitors": [
      {
        "cno": 7
      },
      {
        "cno": 8
      }
    ]
  }
]
},
{
  "feiId": "2021_CI_0856_D_Am_01",
  "name": "CDIAm",
  "competitions": [
    {
      "feiCompetitionCode": "2021_CI_0856_D_Am_01_01",
      "competitors": [
        {
          "cno": 9
        },
        {
          "cno": 10
        }
      ]
    },
    {
      "feiCompetitionCode": "2021_CI_0856_D_Am_01_02",
      "competitors": [
        {
          "cno": 10
        },
        {
          "cno": 9
        }
      ]
    },
    {
      "feiCompetitionCode": "2021_CI_0856_D_Am_01_03",
      "competitors": [
        {
          "cno": 10
        }
      ]
    }
  ]
}

```


2. Kunkiai (2021_CI_1091)

```

{
  "show": {
    "feiId": "2021_CI_1091",
    "events": [
      {
        "feiId": "2021_CI_1091_D_S_01",
        "name": "CDI-W",
        "competitions": [
          {
            "feiCompetitionCode": "2021_CI_1091_D_S_01_01",
            "competitors": [
              {
                "cno": 34
              },
              {
                "cno": 35
              },
              {
                "cno": 36
              },
              {
                "cno": 37
              },
              {
                "cno": 38
              },
              {
                "cno": 39
              },
              {
                "cno": 40
              },
              {
                "cno": 41
              },
              {
                "cno": 42
              },
              {
                "cno": 43
              },
              {
                "cno": 44
              },
              {
                "cno": 45
              }
            ]
          },
          {
            "feiCompetitionCode": "2021_CI_1091_D_S_01_02",
            "competitors": [
              {
                "cno": 34
              },
            ]
          }
        ]
      }
    ]
  }
}

```

```

    {
      "cno": 37
    },
    {
      "cno": 35
    },
    {
      "cno": 36
    },
    {
      "cno": 43
    },
    {
      "cno": 39
    },
    {
      "cno": 41
    },
    {
      "cno": 40
    },
    {
      "cno": 38
    },
    {
      "cno": 42
    },
    {
      "cno": 44
    }
  ]
}
]
},
{
  "feiId": "2021_CI_1091_D_S_02",
  "name": "CDI2*",
  "competitions": [
    {
      "feiCompetitionCode": "2021_CI_1091_D_S_02_01",
      "competitors": [
        {
          "cno": 20
        },
        {
          "cno": 21
        },
        {
          "cno": 25
        },
        {
          "cno": 23
        },
        {
          "cno": 19
        },
        {
          "cno": 28
        },

```

```

    {
      "cno": 24
    },
    {
      "cno": 26
    },
    {
      "cno": 22
    },
    {
      "cno": 29
    },
    {
      "cno": 27
    }
  ]
},
{
  "feiCompetitionCode": "2021_CI_1091_D_S_02_02",
  "competitors": [
    {
      "cno": 20
    },
    {
      "cno": 19
    },
    {
      "cno": 21
    },
    {
      "cno": 23
    },
    {
      "cno": 26
    },
    {
      "cno": 22
    },
    {
      "cno": 28
    },
    {
      "cno": 25
    },
    {
      "cno": 27
    },
    {
      "cno": 24
    },
    {
      "cno": 29
    }
  ]
},
{
  "feiCompetitionCode": "2021_CI_1091_D_S_02_03",
  "competitors": [

```

```

        "cno": 19
      },
      {
        "cno": 20
      },
      {
        "cno": 21
      },
      {
        "cno": 22
      },
      {
        "cno": 23
      },
      {
        "cno": 24
      },
      {
        "cno": 25
      },
      {
        "cno": 26
      },
      {
        "cno": 27
      },
      {
        "cno": 28
      }
    ]
  }
]
},
{
  "feiId": "2021_CI_1091_D_J_01",
  "name": "CDIJ",
  "competitions": [
    {
      "feiCompetitionCode": "2021_CI_1091_D_J_01_01",
      "competitors": [
        {
          "cno": 10
        },
        {
          "cno": 12
        },
        {
          "cno": 17
        },
        {
          "cno": 11
        },
        {
          "cno": 16
        },
        {
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3. Abrantes (2021_CI_0346)

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