

Results File Format — JSON

Technical specification for competition organizers and external systems · Format version 1.0

1. Introduction

The JSON format is intended for systems that generate results data programmatically — the integration prepares the file automatically, without manually filling in tables.

To upload results, two files must be provided for each activity:

- Activity track file (.gpx)
- Results file (.json)

Both files must belong to the same activity of the same event. If an event has several activities, a separate pair of files must be prepared for each one.

2. File naming

Files must be named strictly according to the following template. The .json extension already distinguishes the results file from the track file, so no additional suffix is needed in the name:

```
YYYY-MM-DD_event-name_activity-name.gpx
YYYY-MM-DD_event-name_activity-name.json
```

✓ 2026-06-01_skyrace-riga_21km-trail.gpx

✓ 2026-06-01_skyrace-riga_21km-trail.json

3. Structure of the JSON document

The results file is a single top-level JSON object with five keys: **event**, **activity**, **checkpoints**, **athletes**, **results**. The **results** array is flat: each element contains a participant's bib and is linked to the corresponding entry in **athletes** via that field, rather than being nested inside it.

```
{
  "event": { ... },
  "activity": { ... },
  "checkpoints": [ ... ],
  "athletes": [ ... ],
  "results": [ ... ]
}
```

3.1 event — event information

Field	Type	Required	Comment
name	string	yes	Official event name

date	string YYYY-MM-DD	yes	Event date
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Organizer data is not specified in the file — it is determined from the account under which the file was submitted.

3.2 activity — activity information

Field	Type	Required	Comment
name	string	yes	Activity (distance) name
sport	string	yes	trail_running / road_running / cycling / swimming
start_time	ISO 8601 datetime	yes	Absolute mass-start time, local event time

Activity length is calculated automatically by the system from the track file.

3.3 checkpoints — checkpoints

Field	Type	Required	Comment
name	string	yes	Checkpoint name, e.g. CP1, CP2
offset_m	number	yes	Distance from start, meters

The array contains only intermediate points — not START and FIN. START corresponds to the beginning of the course (offset 0; time = `activity.start_time` for a mass start, or a separate entry in `results` for a staggered start); FIN corresponds to the end of the course, whose coordinates are calculated from the track. The order of elements in the array does not matter: points are sorted by the system according to `offset_m`.

3.4 athletes — participants

Field	Type	Required	Comment
bib	number	yes	Bib number. Unique within the activity
birth_year	number YYYY	yes	Year of birth
gender	string M/F	yes	Participant's gender
status	string	no*	FIN / DNF / DNS / DSQ / OTL — see section 4
external_id	string	no	Internal athlete ID for tracking history
full_name	string	no	Participant's full name — anonymized on upload, see below

* status is required in a results file (training data upload). In an entry list submitted for analysis (prediction upload) there is no `results` array — in that case the status field is ignored and can be omitted or left null.

`full_name` is provided at the data provider's discretion and is not stored in the lake in its original form: the value is used only at upload time and anonymized immediately after processing (for example, only a hash

may be stored, or nothing at all — the exact mechanism is defined separately at implementation stage). The field is not used in predictions and is not returned via the API.

3.5 results — checkpoint crossings

Field	Type	Required	Comment
bib	number	yes	Participant's bib number
checkpoint	string	yes	START / CP1..CPn / FIN
time	ISO 8601 datetime	yes	Absolute crossing time, local event time

A results element is an immutable crossing fact: bib, checkpoint, time. The participant's status is not part of it — it is set once, in `athletes`. START is included only for a staggered start; for a mass start, no START entry is added and the time is taken from `activity.start_time`.

4. Valid statuses

Code	Name	Description
FIN	Finished	The participant completed the activity
DNF	Did Not Finish	The participant withdrew after starting
DNS	Did Not Start	The participant did not start
DSQ	Disqualified	The participant violated the rules
OTL	Overtime Limit	The participant exceeded the time limit

Status is a single field in `athletes`, not repeated on every `results` entry. DNS typically has no `results` entries. DNF is valid without a single `results` entry (withdrawal before the first checkpoint). DSQ is valid together with a `checkpoint=FIN` entry (disqualification after finishing).

5. Example of a completed file

Below is an example file with one event, one activity, three participants, and a staggered start for one of them.

```
{
  "event": {
    "name": "Skyrace Riga",
    "date": "2026-06-01"
  },
  "activity": {
    "name": "21km Trail",
    "sport": "trail_running",
    "start_time": "2026-06-01T08:30:00"
  },
  "checkpoints": [
```

```

    { "name": "CP1", "offset_m": 8200 },
    { "name": "CP2", "offset_m": 15600 }
  ],
  "athletes": [
    { "bib": 42, "birth_year": 1985, "gender": "M", "status": "FIN", "external_id": "",
      "full_name": "Andrejs Kalniņš" },
    { "bib": 7, "birth_year": 1990, "gender": "F", "status": "FIN", "external_id": "ATH-00123",
      "full_name": "Kristīne Ozola" },
    { "bib": 15, "birth_year": 1978, "gender": "M", "status": "DNF", "external_id": "" }
  ],
  "results": [
    { "bib": 42, "checkpoint": "CP1", "time": "2026-06-01T09:15:33" },
    { "bib": 42, "checkpoint": "CP2", "time": "2026-06-01T10:02:10" },
    { "bib": 42, "checkpoint": "FIN", "time": "2026-06-01T10:45:00" },
    { "bib": 7, "checkpoint": "START", "time": "2026-06-01T08:35:00" },
    { "bib": 7, "checkpoint": "CP1", "time": "2026-06-01T09:28:00" },
    { "bib": 7, "checkpoint": "CP2", "time": "2026-06-01T10:18:45" },
    { "bib": 7, "checkpoint": "FIN", "time": "2026-06-01T11:02:30" },
    { "bib": 15, "checkpoint": "CP1", "time": "2026-06-01T09:22:00" }
  ]
}

```

Participant #7 starts separately (08:35), participant #15 withdraws after CP1 (status: DNF, no results entry for FIN) and does not provide full_name — the field is optional; participant #42 starts at the activity's mass-start time.