CHRONOMOTO AUTOCROSS EUROPEAN CHAMPIONSHIP LAPTIMES API
version: 1.00 (2023.02.10.)

1. FOREWORD

This document is a description of the Chronomoto Laptimes API operating on FIA European AX Championship 2023 rounds. The aim of this API is providing laptimes data for the competitors and teams for analysis purposes. The API must be used according to this document. Any improper or unauthorized usage may result in limitation or banning of the API access. Using the API, the users acknowledge and consent having all their queries against the API logged in the system of the provider (Chronomoto Ltd.) with their token and/or IP address. *For simplified use all laptimes will be available for download after every raceday on the Online Notice Board.*

2. SPECIFICATION

The API is available by accessing the following URL:

https://live.chronomoto.hu/ax/laptimes_api.php

Parameters must/can be used when querying the URL:
- **t (mandatory):** unique token, which will be distributed to all registered users of the API. Omitting this parameter or specifying an invalid token will result in an „Authentication failed" error message (without returning any data). *NOTE: this parameter is switched off for the testing period before the season. When performing test queries, you may omit this parameter or give any value to it, all will be considered as valid.*
- **a (optional):** a timestamp can be specified (CET, format: [hhmmss] without any separator) and the API will return only the data uploaded to the database after the specified time. Omitting this parameter, you'll always receive the data updated within the last hour. *NOTE: in the testing period before the season, this parameter (and the default 60 minutes limit) is not taken into consideration, the API always returns all data.*
- **n (optional):** filters the returned laptimes by the specified starting number.
- **r (optional):** filters the returned laptimes by the specified run. Possible values according to the current Autocross event running method: [wu, tp1, tp2, q1, q2, q3, sf1, sf2, final].

The optional parameters can be used/omitted or combined any desired way.

The API operates with a „query – answer" approach. It does not refresh automatically and does not provide push data. The clients can and should query it regularly to retrieve new data. To secure availability and avoid server overload it's forbidden to use a frequency less than 1 minute (60 seconds). The provider recommends a frequency of 2-5 minutes.

The API <u>does not provide real-time (live) data</u> – the laptimes of a run will be available when the PDF results are created and uploaded (usually a few minutes after the run has been finished, but this may be delayed by some issues, e.g. waiting for any instant decision regarding the run, etc.). It is strictly forbidden to attempt any direct inquiry about the laptimes availability or the operation of the API to the timekeepers working on-site.

The output of the API is returned in plain text rows, semicolon separated. The order of data fields is the following:
- **run_name:** as specified above at „r" parameter.
- **start_no:** starting number of the competitor.
- **class:** abbreviation of the competitor's category (e.g.: SB, B1600, XC, XCAT).
- **lap_number**
- **laptime** [m:ss.000]
- **sector1** [ss.000] - If there is no sector timing on the event, this field is omitted.
- **sector2** [ss.000] - If there is no sector timing on the event, this field is omitted.

NOTE: During the testing period before start of season 2023, the system contains the laptimes data from 2022 Round 10 (Mollerussa) Crosscar Academy Trophy class.

3. CONTACT:

In case of any question, problem or remark regarding the API please contact us through the e-mail address autocross@chronomoto.com