Airlinq® Online API -Technical Specifications

Airmaster air handling units connected to Airlinq® Online can either be controlled and monitored via the Web App or API. Please consult the installation manual and the Airlinq® Online Technical Specifications for information about how get air handling units online.

The Web App is accessible through https://online.airlinq.eu and acts as portal that enables users to access and monitor one or more Airmaster air handling units.

API is the acronym for Application Programming Interface and is the software interface that allows two pieces of software to interact with each other and to integrate different systems in a common platform.

In terms of safety the API is using SSL encryption.

Documentation and test services for the API are available via the following link: https://api.airlinq.eu/swagger/

The API exist into two versions V.1 Rest and V.2 GraphQL.

Version 1 - Rest

The API is programmed as a REST API with OWIN/asp.net user authentication.

The user is authenticated by sending the username and password to a HTTP login method. A bearer token is returned and must be used for each API query. For safety reasons the bearer token expires after 3600 seconds (1 hour).

HTTP GET is used for read queries and either HTTP POST or PUT is used for write queries.

Parameters are placed in HTTP body in JSON format and replies are returned in JSON format.

Version 2 - GraphQL

GraphQL stands for Graph Query Language, but unlike other query languages such as SQL (Structured Query Language), it is not a language for communicating directly with a database, but rather a language that defines a contract through which a client communicates with a API server. The GraphQL specification is an open standard that describes the rules and characteristics of the language. It also provides instructions for executing a GraphQL query.

Due to the fact that GraphQL is defined by an open standard, there is no official implementation of GraphQL. A GraphQL implementation can be written with any programming language, integrate with any type of database, and support any client (such as mobile or web applications), as long as it follows the rules outlined in the spec.

The GraphQL API requires a bearer token and is received by utilize the REST endpoint /token with username and password. For safety reasons the bearer token expires after 3600 seconds (1 hour).

The GrapQL API is handling HTTP GET both for queries and mutations (updates). Both queries and mutation are written in JSON format.