Air

STANDARD

FOR
ACCREDITED DATA PROVIDERS v2.0

Table of Contents

2.8.0 Preface

A **RESET™ Air Accredited Data Provider** is a data aggregator that transfers the data collected from monitors to the **RESET™ Assessment Cloud** for data analysis and certification.

The intent of the **RESET™ Air Standard for Accredited Data Providers** is to provide a structure to the way data is handled and delivered for **RESET™ Air Projects**. The **RESET™ Air Building Standards**, including **RESET™ Air for Commercial Interiors** and **RESET™ Air for Core & Shell**, both require data to be organized and transferred to the **RESET™ Assessment Cloud** consistently to become **RESET™ Air Certified**.

Only data providers that are **RESET™ Air Accredited Data Providers** are allowed to provide data for **RESET™ Air Projects**.

The requirements for a **RESET™ Air Accredited Data Provider** is broken down into 3 parts:
- **RESET™ Assessment Cloud** Interfacing
- Data Structure, Resolution, and Frequency
- Display and Communication

It specifies requirements for data structure and connectivity between a **RESET™ Air Accredited Data Provider** and the **RESET™ Assessment Cloud**. This document is also aimed at specifying requirements for display and communication of the data to the occupants of **RESET™ Projects**.

2.8.1 RESET™ Assessment Cloud Interfacing

The basic requirement for every **RESET™ Air Accredited Data Provider** is that it must be connected to the **RESET™ Assessment Cloud** for the purpose of certification for **RESET™ Air Projects**.

A **RESET™ Air Accredited Data Provider** interfaces with the **RESET™ Assessment Cloud** according to the following logic:

1. **Interfacing Logic**
   A **RESET™ Air Accredited Data Provider** communicates via API and web sockets with the **RESET™ Assessment Cloud**. This data transfer serves to provide the **RESET™ Assessment Cloud** with data requisite for the determination of a **RESET™ Air Project**'s certification status.

2. **Interfacing API**
   The **RESET™ Air Accredited Data Provider** will use the API provided by **RESET™ Assessment Cloud** to transfer relevant data from the **RESET™ Air Accredited Data Provider** to the **RESET™ Assessment Cloud** in the form of 30 minute averages. Refer to Data Structure, Resolution and Frequency (Section 2.8.2) for specification on the data that is to be transferred between the **RESET™ Air Accredited Data Provider** and the **RESET™ Assessment Cloud**.

   Specifics on the API can be found at: https://doc.reset.build/providers/.

2.8.1 RESET™ Assessment Cloud Interfacing

3. **Interfacing Monitor Stations**
   Monitor Stations is the term used by the **RESET™ Assessment Cloud** for a monitor or a collection of monitors that are stationed at a specific point for a **RESET™ Air** Project.

   The **RESET™ Assessment Cloud** needs to have compiled monitor station data for **RESET™ Air Projects** to be transferred to the **RESET™ Assessment Cloud** from the **RESET™ Air Accredited Data Provider** using unique IDs to differentiate between different monitor stations. The **RESET™ Air Accredited Data Provider** must provide a corresponding unique ID that can be used to reference a specific Monitor Station in.

4. **Accredited Monitors**
   In order for the data to be considered for use in a **RESET™ Air Project**, the data must be derived from an accredited air quality monitor certified to **RESET™ Air Standard for Accredited Monitors**.

2.8.2 Data Structure, Resolution, and Frequency

The structure, resolution, and the frequency in which data is transferred between the **RESET™ Air Accredited Data Provider** and the **RESET™ Assessment Cloud** is important to the consistency and quality of the data.

Note that the **RESET™ Assessment Cloud** is utilized for project benchmarking, assessment, and determination of certification according to the **RESET™ Air Building Standard**. It does not require data more specific nor up to date than described in this section.

The requirements for data transferred from a **RESET™ Air Accredited Data Provider** is described as follows:

1. **Data Format**
   Data is to be formatted in JSON.
   Refer to the API documents found at https://doc.reset.build/providers/ for full JSON data format information.

2. **Data Resolution**
   Data resolution shall be at 30 minutes (one the hour and the half hour) per monitor. Each piece of data will be the average of the collected monitor data in those 30 minutes.

   The 30 minute average resolution is required in order to establish occupancy hours on the **RESET™ Assessment Cloud**. Data collected at 30 minute intervals provides allowance for occupancy hours to commence on the half hour.

2.8.2 Data Structure, Resolution, and Frequency

3. **Frequency of Data Transfer**
    Data must be transferred from the **RESET™ Air Accredited Data Provider** to the **RESET™ Assessment Cloud**, at minimum, every 24 hours. Final frequency of data transfer will be confirmed between the **RESET™ Air Accredited Data Provider** and the **RESET™ Assessment Cloud**.

2.8.3 Display and Communication

In order to qualify under the **RESET™ Air Building Standard**, live data from IAQ monitoring must be made available to all occupants of **RESET™ Air Projects**. A **RESET™ Air Accredited Data Provider** is responsible for proving that they can provide the resultant data in such a manner as to be conveniently transferred, easily extrapolated, and accurately interpreted by **RESET™ project** teams.

1. **Live Data Display in Public Spaces**
   Live data results are displayed and is easily viewed by all occupants of the participating **RESET™ Air** project. The display must include all parameters as outlined in the **RESET™ Air Building Standard** for which the project is certified under.

2. **Accessible Live Data**
   Live data results are accessible via website and/or application (App). Access to the website or App must be made available for viewing to all participating **RESET™ Air project** occupants when they are within the project boundary. The website and/or App must include all parameters as outlined in the **RESET™ Air Building Standard** for which the project is certified under.

2.8.4 RESET™ Air Accredited Data Provider Process

In order to qualify and become a certified **RESET™ Air Accredited Data Provider,** successful completion of and adherence to the following is compulsory:

a. **Request to become a RESET™ Air Accredited Data Provider**
   Data providers seeking **RESET™ Air Accredited Data Provider** certification must submit a letter of intent to **RESET™** at info@reset.build

b. **Submit Documentation**
   The Data Provider will need to submit a set of documents that attest to and outline the following:
   – Company and product information
   – Interfacing as it pertains to the API and the flow of data from monitor to the **RESET™ Assessment Cloud**
   – Additional data related documents inclusive of, but not limited to NDA or similar privacy agreements as needed for assurance of security and data accuracy
   – Documentation for how users will use the data provider for **RESET™**, including display and communication.

c. **Interface with the RESET™ Assessment Cloud**
   The **RESET™ Air Accredited Data Provider** will need to use the API to fulfill the requirements for interfacing with the **RESET™ Assessment Cloud.** Confirmation of successful data transfer will need to occur before accreditation.

2.8.4 RESET™ Air Accredited Data Provider Process

d. **Confirmation of the Interfacing with the RESET™ Assessment Cloud**
Once confirmed, the data provider is officially certified and recognized as a **RESET™ Air Accredited Data Provider**.

e. **Certified as RESET™ Air Accredited Data Provider**
All **RESET™ Air Accredited Data Providers** will be showcased on the RESET.build website with links to the data provider.

f. **Conditions for Loss of Accreditation Status**
Failed audits will result in loss of accreditation status. Data Providers that are not **RESET™ Air Accredited Data Providers** cannot be used for future **RESET™ Air Projects** until accreditation is regained.

2.8.5 System Audits

To guarantee data quality, system audits will be arranged between **RESET™** and a **RESET™** Air **Accredited Data Provider**.

Protocols for **RESET™** to audit the **RESET™** Air **Accredited Data Provider** will be agreed upon prior to Accreditation status that will outline and guarantee that the data coming from the **RESET™** Air **Accredited Data Provider** is not tampered with or augmented.

The protocol must include a methodology and permission for random queries for data. This includes the ability to request raw data at the point of acquisition, reception, and distribution to ensure that data received is the same as what is delivered by the accredited monitors.

2.8.6 Appendix - Terms & Definitions

a. **RESET™ Assessment Cloud**
   is the cloud system used by **RESET™** to process the data submitted by **RESET™ Air Accredited Data Providers** for the purposes of **RESET™ Certification**.

b. **Application Protocol Interface (API)**
   is a set of routines, protocols, and tools for building software applications. An API specifies how software components should interact. Additionally, APIs are used when programming graphical user interface (GUI) components.
   www.webopedia.com/TERM/A/API.html

c. **Web Sockets**
   A Web Socket is an Application Protocol Interface (API) that makes it possible to open an interactive communication session between the user's browser and a server. A Web Socket makes it possible to send messages to a server and receive event-driven responses without having to poll the server for a reply.
   https://developer.mozilla.org/en-US/docs/Web/API/WebSockets_API

2.8.6 Appendix - Terms & Definitions

d. **JSON (JavaScript Object Notation)**

is a lightweight data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language, Standard ECMA-262 3rd Edition - December 1999.
www.json.org/

e. **Live Data**

refers to data that is very recent and uploaded to the cloud for easy access. Live data can be minute-by-minute or up to hour-by-hour. For the purposes of the **RESET™ Air Building Standard**, the maximum time interval is hour-by-hour.

End of **RESET**™ **Air** STANDARD
for Accredited Data Providers