

Pushing data to Azure Event Hubs

Consibio Cloud can push your project's data to an [Azure Event Hub](https://azure.microsoft.com/en-us/products/event-hubs) (<https://azure.microsoft.com/en-us/products/event-hubs>) instance as it arrives. Every time new values are logged in the project — from devices, integrations or virtual sensors — Consibio Cloud sends a message to your Event Hub, so you can process the data in your own systems in near real-time.

What you need

- A project in Consibio Cloud where you have the **admin** or **owner** role.
- An Event Hub instance in your Azure subscription.
- The **connection string** for the Event Hub. Follow Microsoft's guide [Get an Event Hubs connection string](https://learn.microsoft.com/en-us/azure/event-hubs/event-hubs-get-connection-string) (<https://learn.microsoft.com/en-us/azure/event-hubs/event-hubs-get-connection-string>) to obtain it.

Setting up the integration

1. Open your project in Consibio Cloud.
2. In the left menu, select **More**, open the **Settings** section and select **Integrations**.
3. Select **Add new integration**. A panel opens with the new integration.
4. Give the integration a name, and make sure **Integration type** is set to **Azure Event Hub**.
5. Save your changes.

Saving the connection string

The connection string is stored as a secret: the dashboard only lets you update it — it is not displayed again after saving. Only project **admins** and **owners** can edit it.

1. Open the integration from the **Integrations** view.
2. Under **Connection string**, select **Edit secret**.
3. Paste the connection string from Azure and save.

Consibio Cloud starts pushing new values to your Event Hub right away. Note that only values logged *after* the integration is set up are pushed — historical data is not sent. To pull historical data, use the [REST API](#) instead.

The standard payload

Each message sent to your Event Hub is a JSON document with all the numeric values from one value event:

```
{
  "time": 1756106468,
  "datetime": "2025-08-25T07:21:08Z",
  "project_id": "your_project_id",
  "values": {
    "element_id_1": 21.5,
    "element_id_2": 7.2
  }
}
```

- **time** — when the values were measured, as a Unix timestamp in seconds.
- **datetime** — the same time as an ISO 8601 string in UTC.
- **project_id** — the ID of your Consibio Cloud project.
- **values** — the measured values, keyed by element ID. Only numeric values are forwarded; text values are left out.

To map element IDs to your elements, open the **Elements** view under **Settings**, or list the project's elements with the [REST API](#).

Custom payloads

If you need messages in a different format — for example to match an existing ingestion pipeline — Consibio Cloud also supports custom payload templates, where you control the exact structure of each message. Reach out to support@consibio.com to have custom payloads set up for your project.

Troubleshooting

- **No messages arrive in the Event Hub:** check that the connection string is correct and includes the EntityPath of your Event Hub, and that new values are actually being logged in the project.
- **Some values are missing:** only numeric values are pushed — text values are not included in the standard payload.

If you are stuck, contact support@consibio.com.

