SERSTECH

ChemDash public API

Integration Guide.

How to integrate the API, explore available endpoints, and integrate it into your applications.

V1.0

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Contents.

Welcome to the official documentation for the ChemDash Public API. This guide will help you understand how to use the API, explore available endpoints, and integrate it into your applications.

1. Introduction

The ChemDash Public API provides developers with the ability to interact with our platform programmatically. It supports a variety of operations to manage data and automate workflows.

Key features include:

- A extensive set of endpoints.

- Easy integration using standard HTTPS methods.

- Swagger documentation for interactive exploration and testing.

Base URL for all endpoints:

https://localhost:9090/

2. Getting Started

1. **Access the API:** The API is accessible at:

   o Swagger UI: https://localhost:9090/index.html

   o Swagger JSON: https://localhost:9090/swagger/v1/swagger.json

2. **Request an Authorization Token:** While the authorization token is optional in the current version, it will be required in future releases. Contact us to receive your token.

3. **Enable Authorization Token Requirement:** If you are a developer testing the integration, you can enable the "Use Authorization Token" option in the app settings to simulate future software requirements.
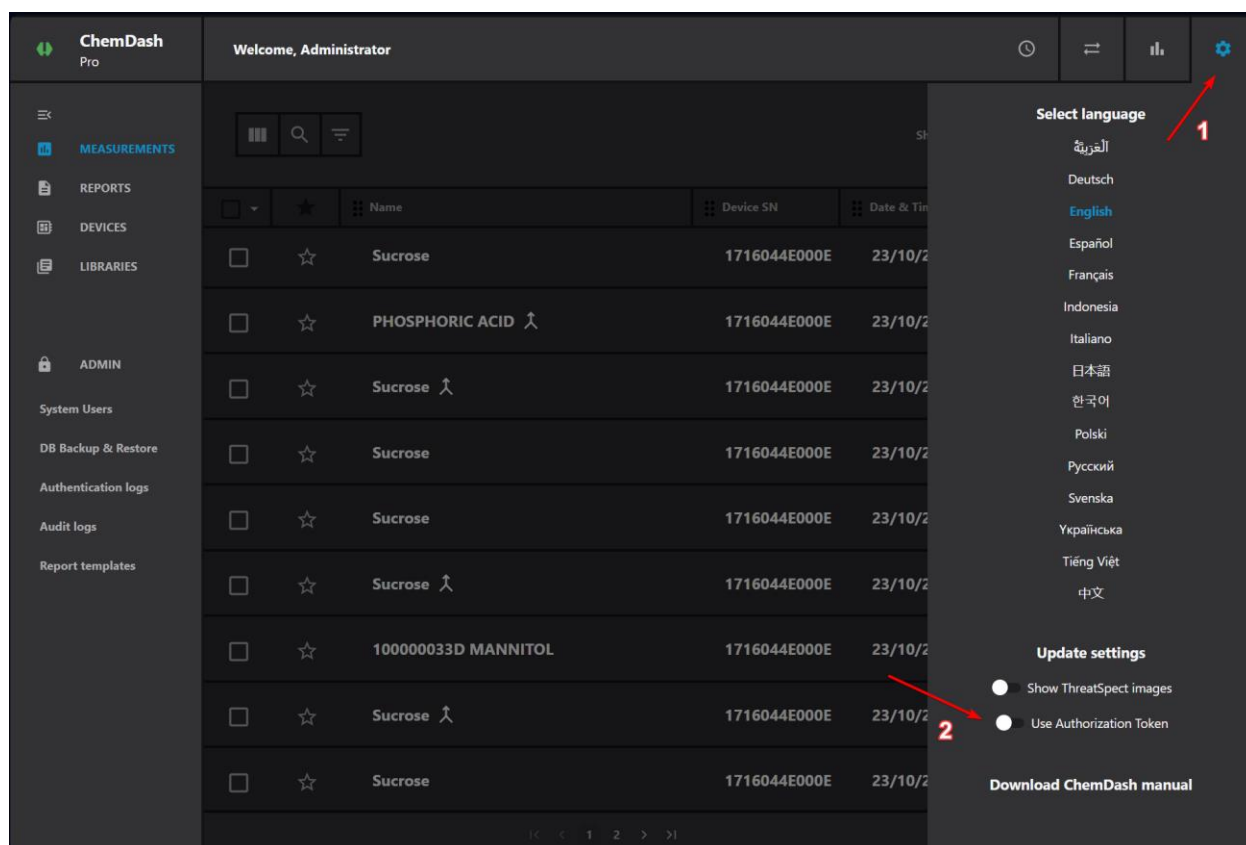
3. Authentication

Authorization Token

- **What is it?** An authorization token ensures secure access to the API.

- **Current Requirement:** Tokens are optional for now but will become mandatory in future updates. Ensure you obtain and use your token to future-proof your integration.

- **How to Use:** Include the token in the Authorization header of your API requests:

<mark>Authorization: <your-token-here></mark>

The Authorization header is mandatory to include the provided token when tokens are required (enabled).
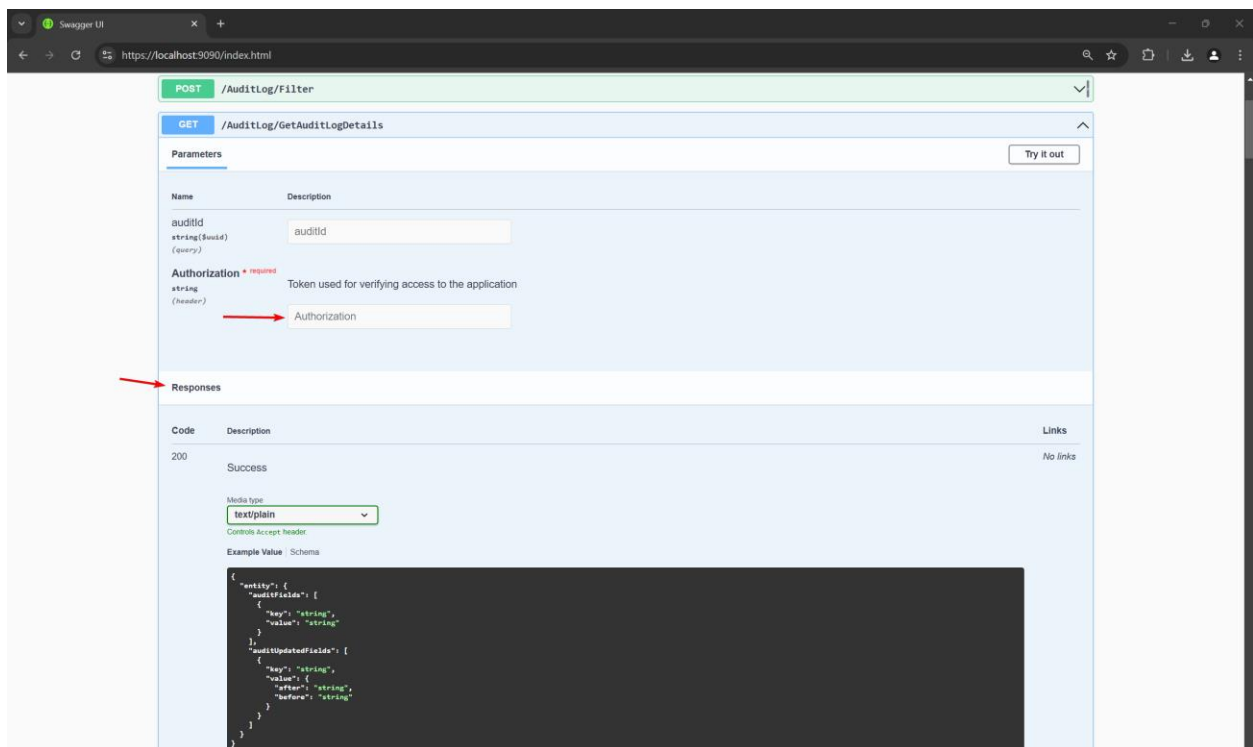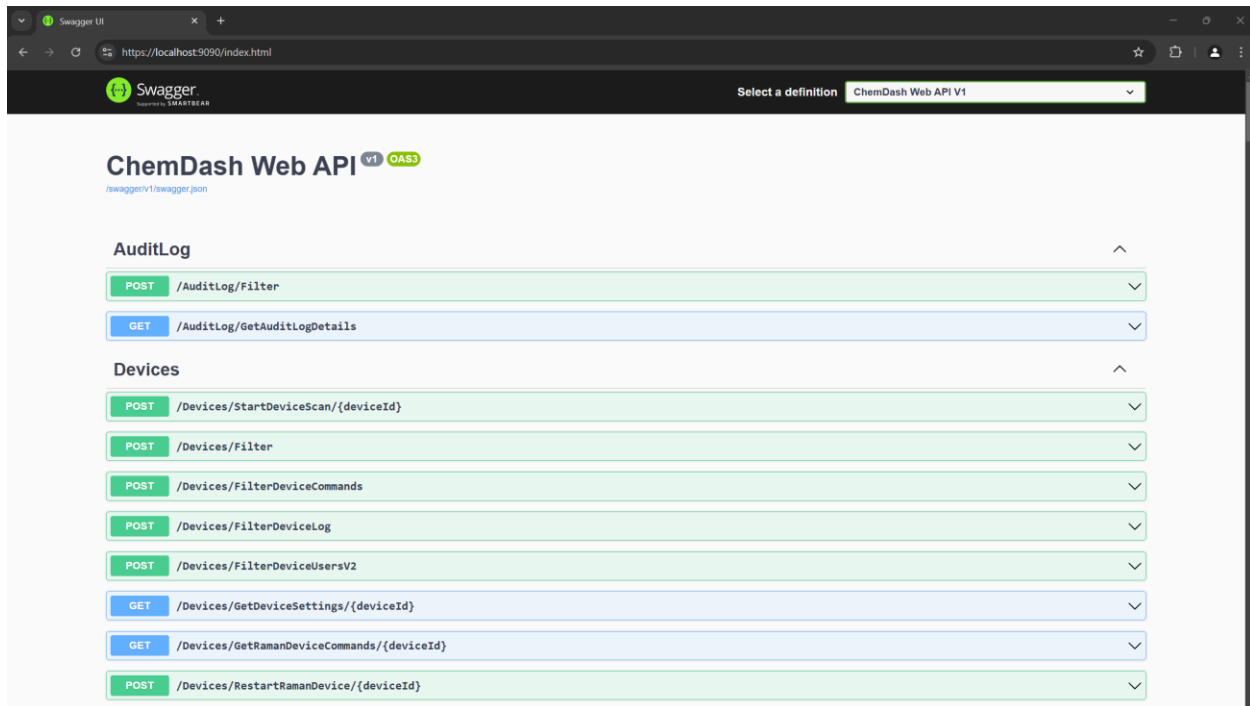
4. Using Swagger

Swagger provides an intuitive UI to explore and test the API endpoints.

Accessing Swagger

- Navigate to https://localhost:9090/index.html

- You'll find a list of all available endpoints, their request and response formats, and the ability to test each endpoint interactively.

Testing with Swagger

1. Open the Swagger UI.

2. Select an endpoint to expand its details.

3. Input any required parameters.

4. Click the "Try it out" button to execute a request.

5. Endpoints Overview

Key Endpoints

Below is a summary of some commonly used endpoints.

Refer to Swagger for a complete list.

Endpoint	Method	Description
/Measurements/Filter	POST	Retrieves a list of measurements.
/Measurements / /GetMeasurementsDetails	POST	Retrieves details of measurements.
/Devices/Filter	POST	Retrieves a list of devices.
/Devices /GetDeviceSettings/{deviceId}	GET	Retrieves the settings of a device.
/Libraries/Filter	POST	Retrieves a list of libraries.
/Libraries/FilterLibraryItems	POST	Retrieves a list of substances (library items) from a library.
/Libraries/GetLibraryItemDetails	POST	Retrieves details about a substance in a library.

5. Endpoints Overview

6. Testing the API

Using Swagger

- Refer to Using Swagger.

Using Curl

- Example GET request:

```
curl.exe -X GET "https://localhost:9090/Statistics/GetStatistics"-H "<your-token-here>" -k
```

Response:

```
{
  "entity": {
    "librariesCount": 3,
    "measurementsCount": 154,
    "usersCount": 16,
    "devicesCount": 3,
    "reportsCount": 22,
    "reportTemplatesCount": 4
  }
}
```

- Example POST request:

```
curl.exe -X POST 'https://localhost:9090/AuditLog/Filter' `
-H 'Authorization: <your-token-here>' `
-H 'Content-Type: application/json' `
-d '{\"startTime\":\"2025-01-19T14:45:01.426Z\",\"endTime\":\"2025-01-19T14:45:01.426Z\"}' `
-k
```

Response:

```
{
 "entity": {
  "items": [
    {
      "auditDateTimeUtc": "2025-01-16T15:26:22.196861",
      "auditUpdatedFields": null,
      "auditType": "Update",
      "id": "56fbf45b-4f5d-4bc1-9cac-409656c70903",
      "operation": "Edit Library",
      "userDomain": "LEGION-VLAD",
      "userName": "Administrator",
      "userType": "SuperAdmin"
    },
    ...
    ...
  ],
  "total": 1055
 }
}
```

7. FAQs

Q: Is the API free to use?

A: Yes, the API is free to use.

Q: How can I get an authorization token?

A: Request your token by contacting our team at sales@serstech.com

Q: What happens if I don't use an authorization token now?

A: Your requests will still work for now. However, future versions of the software will require the token.

Q: Can I test the API locally?

A: Yes, enable the "Use Authorization Token" option in app settings to simulate token requirements during local testing.

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10. Equipment Modifications

This equipment must be installed and used in strict accordance with the instructions given in the user documentation. This equipment contains no user-serviceable components. Unauthorized equipment changes or modifications will invalidate all applicable regulatory certifications and approvals.

11. Support

For further assistance, please contact your SERSTECH reseller. If your questions cannot be answered immediately, the reseller will forward your queries to ensure a rapid response. For more information, please visit our Support or check our FAQ page: www.serstech.com/support or email to: helpdesk@serstech.com

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Thank you for using the ChemDash Public API. We look forward to seeing the incredible applications you create!