

SabreClock API Documentation (v1.0)

This document provides instructions for developers to integrate 3rd-party applications with **SabreClock**. It covers methods to push employee data (onboarding, updates, deactivations) and pull attendance/payroll data.

1. Overview & Authentication

Base URL

`https://clock.sabreproducts.com`

Data Hierarchy

- **Organization (Org):** The top-level entity (Tenant).
- **Company (Profile):** Business units or physical sites within an Organization.
- **Department:** Divisions within a Company (e.g., HR, Security).
- **Employee:** Assigned to one Organization and one Company.

Authentication

SabreClock uses **Sabre Identity (SSO)** for authentication. Currently, the API relies on an `auth_token` cookie for session validation.

To authenticate requests: 1. Log in via

`https://identity.sabreproducts.com`. 2. Capture the `auth_token` cookie from your browser session. 3. Include the cookie in the header of every API request: `Cookie: auth_token=<YOUR_TOKEN>`

[!IMPORTANT] Ensure your account has the `admin` or `owner` role within the target Organization to perform write operations.

2. Organization & Company Lookups

Before managing employees, you must identify the correct `org_id` and `company_id`.

2.1 List My Companies

Retrieve companies you have access to.

- **URL:** GET `/api/companies/my-access`
- **Response:** Returns a list of companies with their `id` and `org_id`.

2.2 List Departments

Resolve `department_id` for employee creation.

- **URL:** GET `/api/departments`
 - **Query Parameters:**
 - `org_id` (Required): Your Organization ID.
 - **Response:** List of department objects with `id` and `name`.
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3. Employee Management (Push Data)

These endpoints allow you to sync staff records from HR or onboarding systems.

3.1 List Employees

Retrieve a list of employees for an organization.

- **URL:** GET `/api/employees`
- **Query Parameters:**
- `org_id` (Required): The ID of your organization.
- `status`: `active` (default), `terminated`, or `all`.
- `search`: Filter by name, employee number, or ID number.

3.2 Create Employee

Add a new staff member to SabreClock.

- **URL:** POST `/api/employees`

- **Body (JSON):** | Field | Type | Description | | :--- | :--- | :--- | | `org_id` | Integer | **Required.** Target Organization ID. | | `company_id` | Integer | **Required.** Target Company ID. | | `first_name` | String | **Required.** First name. | | `surname` | String | **Required.** Surname. | | `employee_no` | String | Unique payroll/staff number. | | `id_number` | String | South African ID (Auto-extracts DOB/Gender). | | `email` | String | Email address. | | `department_id` | Integer | ID of the department. | | `position_id` | Integer | ID of the job position. | | `start_date` | Date | YYYY-MM-DD. |
- **Notes:** If `enroll_id` is omitted, the system will auto-assign the next available ID for biometric devices based on the company's numbering rules.

3.3 Update Employee

Modify existing staff data.

- **URL:** PUT `/api/employees/:id`
- **Body (JSON):** Any field from the Create Employee model.
- **Example:** PUT `/api/employees/123` with `{"phone": "0821234567"}`.

3.4 Deactivate (Remove) Employee

Soft-deletes an employee. They remain in history but are marked inactive.

- **URL:** DELETE `/api/employees/:id`
- **Success Response:** `{"success": true, "message": "Employee deactivated"}`

4. Attendance & Payroll (Pull Data)

Use these endpoints to pull attendance and clocking data for payroll or reporting.

4.1 Daily Attendance Register

Get a grouped view of who is present/absent for a specific day.

- **URL:** GET `/api/attendance/daily`
- **Query Parameters:**
- `date:` YYYY-MM-DD (Defaults to today).
- `org_id:` Filter by organization.

- **Response:** Returns grouped events (First In, Last Out, Total Hours, Status) per employee.

4.2 Payroll Data Export

The most efficient way to pull raw worked hours for integration.

- **URL:** GET /api/payroll/export
- **Query Parameters:**
 - start_date: YYYY-MM-DD.
 - end_date: YYYY-MM-DD.
 - format: json (default) or csv.
- **Example:** GET /api/payroll/export?start_date=2024-01-01&end_date=2024-01-31&format=json

4.3 Raw Clocking Live Feed

Fetch the most recent clocking events across the organization.

- **URL:** GET /api/attendance/recent
- **Query Parameters:**
 - limit: Number of records (max 100).
 - org_id: Target organization.

5. Error Codes

Status Meaning

200 Success.

201 Created successfully.

Status Meaning

400 Bad Request (Missing required fields).

401 Unauthorized (Invalid or missing `auth_token` cookie).

403 Forbidden (User does not have access to this organization).

404 Not Found.

500 Internal Server Error.

Support: For integration assistance, contact the SabreClock Development Team.