

# Aimyze API Reference Guide

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## 1. Overview

The Aimyze API allows you to programmatically interact with the Aimyze platform. This reference guide provides an overview of available endpoints, authentication methods, and data structures.

API access is available to all subscription tiers. Detailed endpoint specifications and interactive documentation are available in the Aimyze Developer Portal.

## 2. Authentication

### 2.1 API Keys

All API requests require authentication using API keys:

- API keys are generated in the Aimyze dashboard under Settings > API Access
- Include the API key in the request header: Authorization: Bearer <API\_KEY>
- API keys can be scoped to specific permissions and resources
- Keys can be rotated without service interruption

### 2.2 OAuth 2.0

For applications requiring user-delegated access:

- OAuth 2.0 authorization code flow supported
- Scoped access tokens with configurable permissions
- Token refresh mechanism for long-running applications

## 3. Base URL

All API requests should be made to:

**Production:** <https://api.aimyze.com/v1>

**Sandbox:** <https://sandbox-api.aimyze.com/v1>

All endpoints use HTTPS. HTTP requests are not supported.

## 4. API Endpoints

### 4.1 Agents

- GET /agents - List all agents
- GET /agents/{id} - Get agent details
- GET /agents/{id}/status - Get agent operational status

- GET /agents/{id}/metrics - Get agent performance metrics
- POST /agents/{id}/actions - Trigger manual agent action

## 4.2 Events

- GET /events - List events with filtering
- GET /events/{id} - Get event details
- POST /events - Submit custom event
- GET /events/statistics - Get event statistics

## 4.3 Actions

- GET /actions - List agent actions
- GET /actions/{id} - Get action details
- GET /actions/{id}/logs - Get action execution logs

## 4.4 Assets

- GET /assets - List monitored assets
- GET /assets/{id} - Get asset details
- GET /assets/{id}/health - Get asset health score
- GET /assets/{id}/history - Get asset historical data

## 4.5 Alerts

- GET /alerts - List alerts
- GET /alerts/{id} - Get alert details
- PUT /alerts/{id}/acknowledge - Acknowledge alert
- PUT /alerts/{id}/resolve - Resolve alert

## 4.6 Reports

- GET /reports - List available reports
- POST /reports/generate - Generate custom report
- GET /reports/{id}/download - Download report

# 5. Request/Response Format

All API endpoints accept and return JSON:

- Content-Type: application/json
- UTF-8 encoding for all text
- ISO 8601 format for dates and timestamps
- Pagination using offset and limit parameters

## 6. Rate Limiting

API requests are rate limited to ensure platform stability:

- Starter tier: 100 requests per minute
- Professional tier: 500 requests per minute
- Enterprise tier: 2000 requests per minute (customizable)

Rate limit headers are included in all responses: X-RateLimit-Limit, X-RateLimit-Remaining, X-RateLimit-Reset

## 7. Error Handling

API errors return standard HTTP status codes:

- 400 Bad Request - Invalid parameters or request body
- 401 Unauthorized - Invalid or missing API key
- 403 Forbidden - Insufficient permissions
- 404 Not Found - Resource not found
- 429 Too Many Requests - Rate limit exceeded
- 500 Internal Server Error - Server-side error

Error responses include a JSON body with error code, message, and details.

## 8. Webhooks

Aimyze can send webhook notifications for events:

- Configure webhook URLs in the dashboard
- Events include: agent.action.completed, alert.created, asset.health.changed
- Webhooks include HMAC signature for verification
- Retry logic for failed deliveries

## 9. SDKs & Libraries

Official SDKs are planned for:

- Python
- JavaScript/Node.js
- Java

Contact your account manager for SDK availability and early access.

## 10. Developer Portal

Access the full API documentation at:

**Developer Portal:** <https://developers.aimyze.com>

The portal includes interactive API explorer, code samples, and detailed specifications.