  


Analytics API 1.1

Analytics

Admin Data API

Developer Guide

1.1

March 4, 2011

Copyright © 2011 SmithMicro®.

2023 Stierlin Ct, 2nd Floor

Mountain View, CA 94043

Voice 🞟 650.603.6600

Fax 🞟 650.603.6635

[support@smithmicro.com](mailto:support@smithmicro.com)

[www.smithmicro.com](http://www.smithmicro.com/)

**This document is the property of SmithMicro Software, Inc, Mountain View, California. It contains confidential information and may be used only for the express purpose defined at the time of delivery and only by the individual to whom it has been provided.**

Revision History

|  |  |  |
| --- | --- | --- |
| Date | Author | Comments |
| 02/23/11 | Luis Ramos | Initial Skeleton |

Table of Contents

[1. Introduction 5](#_Toc286402409)

[1.1 Introduction 5](#_Toc286402410)

[2. Analytics Admin Concepts 6](#_Toc286402411)

[2.1 RESTful Interface 6](#_Toc286402412)

[2.2 Resources 6](#_Toc286402413)

[2.2.1 Analytics Admin Users 6](#_Toc286402414)

[2.2.2 Group (Client Project Name) 6](#_Toc286402415)

[2.2.3 Job 6](#_Toc286402416)

[2.3 Formatting HTTP Request 6](#_Toc286402417)

[2.3.1 URI Space 6](#_Toc286402418)

[2.3.2 HTTP Request Headers 6](#_Toc286402419)

[2.4 API Authorization and Encryption 7](#_Toc286402420)

[2.5 Encoding 7](#_Toc286402421)

[2.6 Parameters 7](#_Toc286402422)

[2.6.1 Including Parameters in the URI or Request Body 7](#_Toc286402423)

[2.7 Handling Responses 7](#_Toc286402424)

[2.7.1 Response Headers 7](#_Toc286402425)

[2.7.2 JSON Support 7](#_Toc286402426)

[2.8 HTTP Response Codes 7](#_Toc286402427)

[3. API Developer Guide 8](#_Toc286402428)

[3.1 User Provisioning 8](#_Toc286402429)

[3.1.1 Authentication 8](#_Toc286402430)

[3.1.2 Developer API Calls 8](#_Toc286402431)

[3.2 Managing Groups (client group) 8](#_Toc286402432)

[3.2.1 Viewing Existing Groups 8](#_Toc286402433)

[3.2.2 Creating New Groups 8](#_Toc286402434)

[3.3 Defining Events and Parameters 8](#_Toc286402435)

[3.3.1 Viewing Existing Events and Parameters 8](#_Toc286402436)

[3.3.2 Adding and Removing Events or Parameters 8](#_Toc286402437)

[3.3.2.1 Changing the Type and defining Default Settings 8](#_Toc286402438)

[3.4 Managing Jobs 8](#_Toc286402439)

[3.4.1 Viewing Existing Jobs 8](#_Toc286402440)

[3.4.2 Creating a New Job 8](#_Toc286402441)

[3.4.2.1 Adding a Job to JobQueue 8](#_Toc286402442)

[3.4.2.2 JobQueue Management 8](#_Toc286402443)

[3.4.3 Checking the Process of a Job 8](#_Toc286402444)

[3.4.4 Retrieving Job Results 8](#_Toc286402445)

[4. Authentication API Calls 11](#_Toc286402446)

[4.1 analytics.admin.auth 11](#_Toc286402447)

[4.1.1 Sample Request and Response 11](#_Toc286402448)

[5. User API Calls 12](#_Toc286402449)

[5.1 analytics.admin.user.get 12](#_Toc286402450)

[5.1.1 Sample Request and Response 12](#_Toc286402451)

[6. Appendix 13](#_Toc286402452)

[6.1 More on RESTful Design 13](#_Toc286402453)

[6.2 Overview of the HTTP Protocol 13](#_Toc286402454)

[6.2.1 HTTP Request Messages 13](#_Toc286402455)

[6.2.2 HTTP Response Messages 13](#_Toc286402456)

List of Figures

[Figure 1. Process - 1 **Error! Bookmark not defined.**](#_Toc220462051)

|  |
| --- |
| **Chapter 1** - Introduction |

# Introduction

## Introduction

|  |
| --- |
| **Chapter 2** - Analytics Admin Concepts |

# Analytics Admin Concepts

## RESTful Interface

Analytics API conforms to the design principles of Representational State Transfer (REST). This means that client application requests to the Analytics Admin API over the web using HTTP GET or POST requests and then handling the response returned.

The type of data you want to interact with is identified as a *resource (section 2.2)* using a URI you specify within the HTTP request. The standardized HTTP methods POST, GET, PUT and DELETE can be thought of as loosely mapping to the four main database functions Create, Read, Update and Delete (often abbreviated to CRUD). See Appendix for more details on REST and HTTP.

API calls that require a particular HTTP method will return an error if the correct method is not specified. HTTP Response Codes are meaningful and explained in Section 2.8, “HTTP Response Codes”.

## Resources

### Analytics Admin Users

These are users that can use the analytics admin system. Generally a user is needed to interact with the system. A user can have many groups/projects which is needed to collect data. Users also have permissions, roles, and settings.

### Group (Client Project Name)

The group is the resource that corresponds to the client. A user can have many groups, each group can have settings, events, and jobs. You cannot request data from analytics admin without having a valid group. A group can belong to many users, but can also have a default admin user.

### Job

## Formatting HTTP Request

Interacting with the analytics admin backend involves making API calls over the network in the form of HTTP requests to the analytics server. The analytics Resource upon which a call will perform its operation is specified within the URI path, to the right of the host name. The method information is determined by the standard HTTP verb specified in the request. For example, if you were interested in retrieving the details of a particular Analytics user you might construct the following HTTP GET request:

GET /user/7e86c4d4a1354dd4affcea20d8195c10 HTTP/1.1  
HOST: api.analytics.smithmicro.com

### URI Space

### HTTP Request Headers

## API Authorization and Encryption

## Encoding

## Parameters

### Including Parameters in the URI or Request Body

## Handling Responses

### Response Headers

### JSON Support

## HTTP Response Codes

|  |
| --- |
| **Chapter 3** - API Developer Guide |

# API Developer Guide

## User Provisioning

### Authentication

### Developer API Calls

## Managing Groups (client group)

### Viewing Existing Groups

### Creating New Groups

## Defining Events and Parameters

### Viewing Existing Events and Parameters

### Adding and Removing Events or Parameters

#### Changing the Type and defining Default Settings

## Managing Jobs

### Viewing Existing Jobs

### Creating a New Job

#### Validating a Job and initializing the JobWorker

#### JobWorker Management

### Checking the Process of a Job

### Retrieving Job Results

|  |
| --- |
| **Chapter 4** - Authentication API Calls |

# Authentication API Calls

## analytics.admin.auth.token.create

This call is used to authenticate with the analytics system. It creates an authentication token.

Use this call to obtain an Analytics Account Token required for all API requests to the server.

Table 4.1 Call Details

|  |  |
| --- | --- |
| Detail | Description |
| HTTP Method | POST |
| URI Structure | /auth/token/create |
| URI Variables | None |
| Parameters | None |
| HTTP Requests Headers | ***Accept*** - Mandatory. See Section 2.3.2 Common HTTP Headers used in Analytics API Requests for details.  ***Content-Type*** - Mandatory. This header must be set to ***application/x-wwwform-urlencoded*** as the authentication details are specified within form parameters. |
| Request Body | The following form parameters are Mandatory. Note that these parameters must be  URL encoded and separated by an ampersand (&) character.   * ***accountName*** - Mandatory. The account name assigned to the user when created. * ***password*** - Mandatory. The password as specified when the user account was created.   See Section 3.1, “User Provisioning” for more details on user  account information. |
| Successful Response Codes | ***200 OK***  For more information on response codes, see Section 2.8, “HTTP Response Codes”. |
| Supported Response Format | ***JSON/XML*** - format determined by the Accept header. |

### Sample Request and Response

Here is an example of a create authentication token request:

POST /auth/token/create HTTP/1.1  
HOST: api.analytics.smithmicro.com

The Response contains the authentication token in the *Set-cookie* header as well as the body:

HTTP/1.1 200 OK  
Server: Apache-Coyote/1.1  
Content-Type: application/json;charset=UTF-8

{“tokenAuth” : { “token” : { “$” : “jTE8sNgeXPiAVslBPgPnl8vb0K2QUU” }, “user” : { “$” : “userid” } }

## Analytics.admin.auth.token.destroy

This call is used to destroy the token for the authenticated user in the analytics system.

Table 4.1 Call Details

|  |  |
| --- | --- |
| Detail | Description |
| HTTP Method | DELETE |
| URI Structure | /auth/token/delete |
| URI Variables | None |
| Parameters | None |
| HTTP Requests Headers | ***Accept*** - Mandatory. See Section 2.3.2 Common HTTP Headers used in Analytics API Requests for details. |
| Request Body |  |
| Successful Response Codes | ***200 OK***  For more information on response codes, see Section 2.8, “HTTP Response Codes”. |

### Sample Request and Response

Here is an example of a create authentication token request:

DELETE /auth/token/destroy HTTP/1.1  
HOST: api.analytics.smithmicro.com

The API Server will respond with 200 OK status code:

HTTP/1.1 200 OK  
Server: Apache-Coyote/1.1

|  |
| --- |
| **Chapter 5** - User API Calls |

# User API Calls

## analytics.admin.user.create

This call is used to create a new user account.

**C:\Program Files (x86)\Microsoft Office\MEDIA\CAGCAT10\j0293236.wmf** Super Admin API Only

This API call is not part of the main User Level Analytics API. It is solely used for the purposes of initializing the system environment and must be used with caution in production systems. Super Admin API is usually reserved for non-owner user management. The default credentials should be changed and privileges assigned.

## analytics.admin.user.get

This call is used to retrieve user’s details.

### Sample Request and Response

# Group API Calls

## analytics.admin.group.list

This call is used to retrieve a list of groups.

### Sample Request and Response

# Appendix

## More on RESTful Design

## Overview of the HTTP Protocol

### HTTP Request Messages

### HTTP Response Messages