

# SCIM API Documentation

The SCIM API allows clients to utilize SCIM to manage Users and Groups as well as allows clients to search and retrieve learner training history data for a specific interval and based on filters.

## Getting Started

To get started you will need to contact our Technical Support team (support@bizlibrary.com).

Support will configure and provide the two items that you will need to interact with the API. Technical Support will request a contact name and email address for the API Key issued.

Technical Support will give you:

1. Billing ID
2. API Key

\* You have more than one Billing ID given to you as SCIM API licensing requires.

## API Endpoint/URL

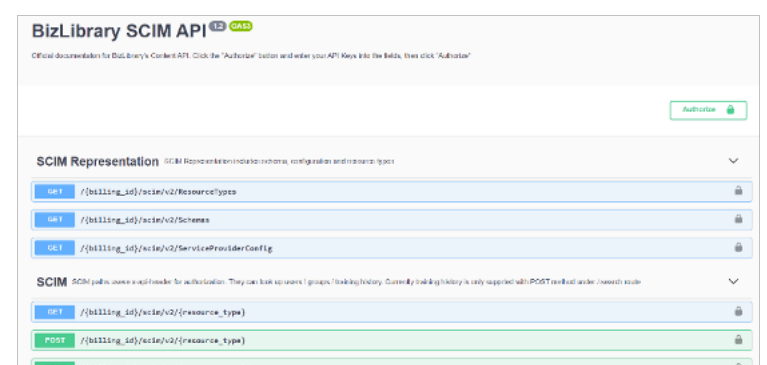
<https://scim-api.bizlibrary.com/prod>

## Technical Documentation

The technical documentation is located at:

<https://scim-api.bizlibrary.com/prod/about/index.html>

The documentation is publicly available. It contains a way that you can try the SCIM API without writing any code once you have your Billing ID and API Key.



## Base Data Format

The Training History API uses the JSONAPI (<http://jsonapi.org/>) format. Common JSONAPI implementations are available (<http://jsonapi.org/implementations/>).

## Security & Throttling

### Controlling Access

Security to the SCIM API requires you to supply your API Key as the “x-api-key” header value.

### API Rotation

We rotate API Keys based on internal security policies and needs. Our Technical Support team will notify you 15 days in advance of a required key rotation.

### Service Limits

BizLibrary monitors and limits requests per day, throttles request rates per second, and allows a burst rate requests at a higher level. If you run into errors due to throttling, please contact our Technical Support team ([support@bizlibrary.com](mailto:support@bizlibrary.com)) for assistance.



# Data Functions

## All Methods

- billing\_id is part of the URL as supplied by Technical Support
- The header “x-api-key” or oAuth bearer token should be included on all requests
- All QueryString values should be URL encoded

## SCIM Representation

GET - /{billing\_id}/scim/v2/ResourceTypes  
GET - /{billing\_id}/scim/v2/Schemas  
GET - /{billing\_id}/scim/v2/ServiceProviderConfig

## SCIM

GET - /{billing\_id}/scim/v2/{resource\_type}  
\*\*\* (Currently traininghistory is only supported in POST search)

POST - /{billing\_id}/scim/v2/{resource\_type}  
POST - /{billing\_id}/scim/v2/{resource\_type}/.search

GET - /{billing\_id}/scim/v2/{resource\_type}/{id}  
PUT - /{billing\_id}/scim/v2/{resource\_type}/{id}  
PATCH - /{billing\_id}/scim/v2/{resource\_type}/{id}

## SCIM OAUTH

GET - /{billing\_id}/scim/v2/oauth/{resource\_type}

POST - /{billing\_id}/scim/v2/oauth/{resource\_type}  
POST - /{billing\_id}/scim/v2/oauth/{resource\_type}/.search

GET - /{billing\_id}/scim/v2/oauth/{resource\_type}/{id}  
PUT - /{billing\_id}/scim/v2/oauth/{resource\_type}/{id}  
PATCH - /{billing\_id}/scim/v2/oauth/{resource\_type}/{id}

### References:

- [https://solr.apache.org/guide/6\\_6/common-query-parameters.html](https://solr.apache.org/guide/6_6/common-query-parameters.html)
- <https://docs.aws.amazon.com/AWSJavaScriptSDK/latest/AWSCloudSearchDomain.html#search-property>

Times should be passed in as ISO 8601 compliant datetimes.

All times inbound and outbound should be UTC.

Parameter	Data Type	Data Description
billing_id	string	Provided by Technical Support.
resource_type	string	A type of resource that is managed by a service provider e.g. "users" or "groups" or "traininghistory".
id	string	A unique identifier for a SCIM resource as defined by the service provider.
filter	string	Filtering is an OPTIONAL parameter for SCIM service providers. When specified, only those resources matching the filter expression SHALL be returned.
count	int	Number of records returned in result.
sortOrder	string	By ascending or descending.
startIndex	int	Used in pagination. Start index 1 = default.
sortedBy	string	Sorting Field.

## Example Create User

```
{
  "schemas": ["urn:ietf:params:scim:schemas:core:2.0:User"],
  "userName": "example@noreply.com",
  "name": [{
    "givenName": "Franklin",
    "middleName": "Michael",
    "familyName": "Myers"
  }],
  "active": true,
  "externalId": "PH7TH547-E643-7K73-F213-34E34H1A9874",
  "addresses": [{
    "type": "work",
    "streetAddress": "123 Maple Ave",
    "locality": "St. Louis",
    "region": "Missouri",
    "postalCode": "63143",
    "country": "United States",
    "primary": true
  }],

  "emails": [{
    "type": "work",
    "value": "example@noreply.com",
    "primary": true
  }],

  "phoneNumbers": [{
    "type": "work",
    "value": "555-456-7891",
    "primary": true
  }],

  "title": "HR Director",
  "urn:ietf:params:scim:schemas:extension:enterprise:2.0:User": {
    "organization": "BizLibrary",
    "department": "Operations",
    "costCenter": "STL Facility",
    "division": "STL",
    "employeeNumber": "123456",
    "manager": [{
      "displayName": "Bob White"
    }]
  },
  "jobCode": "OP456",
  "hireDate": "05/01/2022",
  "billingId": "xyz01",
  "groups": [{
    "value": "BD7BN547-E297-4Z81-X213-34E34F1A5878"
  }]
}
```

## Example Create Group

```
{
  "schemas": "urn:ietf:params:scim:schemas:core:2.0:Group",
  "externalId": "BP6JH547-E643-7K73-F213-34E34H1A1702",
  "displayName": "Mitch Smith",
  "Members": [{
    "value": "AD7BH547-E643-7K73-F213-34E34H1A7527"
  }]
}
```

## Example Deprovision User

```
{
  "schemas": ["urn:ietf:params:scim:schemas:core:2.0:User"],
  "name": [{
    "givenName": "Franklin",
    "middleName": "Michael",
    "familyName": "Myers"
  }],
  "active": false,
}
```

## Example Training History for a 5-minute period

```
{
  "schemas": ["urn:ietf:params:scim:schemas:core:2.0:TrainingHistory"],
  "filter": "activityStatusStart eq \"2022-05-04T15:30:00.000Z\" and activityStatusEnd eq \"2022-05-04T15:35:00.000Z\"",
  "sortBy": "activityDateTime",
  "sortOrder": "descending",
  "startIndex": 1,
  "count": 10
}
```