

# SailPoint IdentityIQ SCIM integration

This document outlines how to configure a SCIM connector application within a SailPoint IdentityIQ tenant, and our supported scenarios.

## Supported SCIM Scenarios

- Users
  - Create (POST)
  - Read (GET)
  - Update (PUT or PATCH)
  - Delete (DELETE)
- Groups
  - Create (POST)
  - Read (GET)
  - Update (PUT or PATCH)
  - Delete (DELETE)

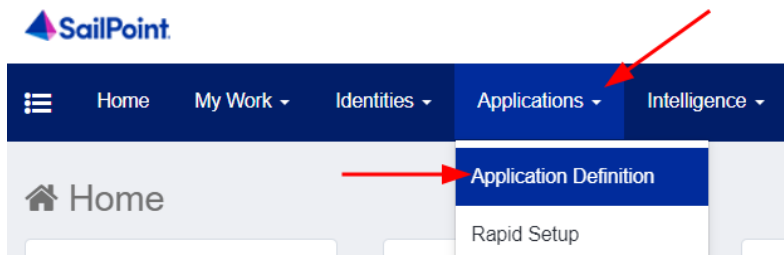
## Before beginning

You will need a **Base URL** and an **API Token** from Axiad to configure a SCIM connector.

1. Please contact your customer success engineer directly to get this information shared securely.
  - a. If you don't have a direct contact, please email [customer.success@axiad.com](mailto:customer.success@axiad.com)
2. Request your **SCIM URL** to be used to configure the **Base URL** in SailPoint
3. Request a **Bearer Token** to be used to configure the **API Token** in SailPoint

## Configuration Instructions

1. Sign in to your admin dashboard
2. Select **Applications** in the top ribbon, then select **Application Definition**



3. Select **Add New Application**

### Application Definition

A screenshot of the 'Application Definition' form. At the top, there is a search bar labeled 'Filter by Application Name' with a magnifying glass icon. To the right of the search bar is a blue button labeled 'Add New Application', which is highlighted with a red arrow. Below the search bar and button is a table with two columns: 'Name' and 'Host'.

4. Set the **Name** as **Axiad Cloud SCIM** and set the **Application Type** as **SCIM 2.0**
  - a. The rest of the details need to be filled out in accordance to your tenant requirements, below is how we configured for our demo environment.

\*Indicates a required field.

\*Name ?

Axiad Cloud SCIM



\*Owner ?

The Administrator

\*Application Type ?

SCIM 2.0

Description ?

**B** *I* U |   English (United States) ▾

SCIM connector application to synchronize with Axiad Cloud.

59 of 1024 characters (including markup)

Revoker ?

Proxy Application ?

Profile Class ?

Scope ?

Authoritative Application ?

Case Insensitive ?

Native Change Detection ?

Maintenance Enabled ?

5. Select the **Configuration** tab

6. Configurations should be as follows:

a. Check **Non-compliant Server**

b. Fill in the **Base URL** with the SCIM URL provided by your Axiad customer success engineer

c. Select **API Token**

d. Enter the Bearer token provided by Axiad into the **API Token** section

e. Then select **Test Connection** to verify the configuration

## SCIM Settings

Non-compliant Server?  ?

Base URL \*  ?

Authentication Type  OAuth 2.0 ?

API Token ?

Basic Authentication

No Authentication

API Token \*  ?

Account Filter  ?

Group Filter  ?

Role Filter  ?

Entitlement Filter  ?

Server Time Zone  ?

Explicit Attribute Request  ?

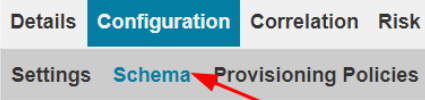
Accept Header  ?

Content-type Header  ?

Connection Timeout  ?

[Test Connection](#)  Test Successful

7. Select **Schema** under the **Configuration** tab



8. In the section **Object Type: account** select **Add New Schema Attribute** to add the required schema attributes for Axiaid Cloud

**Object Type: account**

**Details**

**Native Object Type**

User

**Display Attribute**

userName

**Identity Attribute**

id

**Instance Attribute**

**Remediation Modifiable**

Readonly

**Attributes**

Name	Description	Type	Properties
------	-------------	------	------------

Add New Schema Attribute

Discover Schema Attributes

Delete Schema Attribute

Preview

9. Add the following attributes with description for ease of recognition

**INFORMATIONAL NOTE:** These are the minimum required attributes to work with Axiaad Cloud. If you need additional functionality, such as MyCircle, please work with your Axiaad customer success engineer to add any additional required attributes.

**Attributes**

Name	Description	Type	Properties	
<input type="checkbox"/> name.givenName	First name	string		Edit
<input type="checkbox"/> name.familyName	Last name	string		Edit
<input type="checkbox"/> emails.work.secondary.value	User Principal Name	string		Edit
<input type="checkbox"/> emails.work.primary.value	Email address	string		Edit
<input type="checkbox"/> externalid	External User ID	string		Edit
<input type="checkbox"/> userName	User ID	string		Edit

Add New Schema Attribute

Discover Schema Attributes

Delete Schema Attribute

10. Leave the following sections **blank**, Axiaad Cloud does not currently support Entitlements or Roles

- Scroll down to the section **Object Type: entitlements** and ensure there are no attributes listed
- Scroll down to the section **Object Type: roles** and ensure there are no attributes listed

11. Scroll down to the section **Object Type: group** and select **Add New Schema Attribute** to add the required attributes for Axiaad Cloud

**Object Type: group**

**Details**

Native Object Type:

Display Attribute:

Identity Attribute:

Instance Attribute:

Description Attribute:

Remediation Modifiable:

**Attributes**





Name Description Type Properties

Add New Schema Attribute Discover Schema Attributes Delete Schema Attribute

Preview

12. Add the following attributes with description for ease of recognition

**Attributes**

Name	Description	Type	Properties
<input type="checkbox"/> displayName	Display name of group	string	<input type="text"/> 
<input type="checkbox"/> members.value	Members of group	string	<input type="text"/> 
<input type="checkbox"/> name	Name of group	string	<input type="text"/> 
<input type="checkbox"/> externalid	External ID	string	<input type="text"/> 

Add New Schema Attribute Discover Schema Attributes Delete Schema Attribute

13. To properly get the members do the following:

a. Select the Edit button on the right

Name	Description	Type	Properties
<input type="checkbox"/> displayName	Display name of group	string	<input type="text"/> 
<input type="checkbox"/> members.value	Members of group	string	<input type="text"/> 
<input type="checkbox"/> name	Name of group	string	<input type="text"/> 
<input type="checkbox"/> externalid	External ID	string	<input type="text"/> 

b. In the pop-up window, check the box for Multi-valued and select Save

Advanced Properties

Entitlement  Correlation Key

Multi-Valued  Minable

Indexed

Set as Identity Attribute Set as Display Attribute Set as Instance Attribute

Save Cancel


14. Scroll back up to the top of the page and select Provisioning Policies under the Configuration tab

Details Configuration Correlation Risk

Settings Schema Provisioning Policies

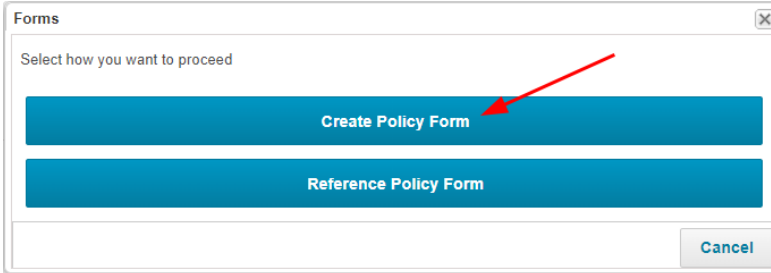
15. Create **Policy Forms** for **Create**, **Update**, and **Delete** sections

a. Select **Add Policy** next to **Create**



Type	Name	Description	
Create			Add Policy
Update			Add Policy
Delete			Add Policy
Enable Account			Add Policy
Disable Account			Add Policy
Unlock Account			Add Policy
Change Password			Add Policy

b. There will be a pop-up window for **Forms** select **Create Policy Form**



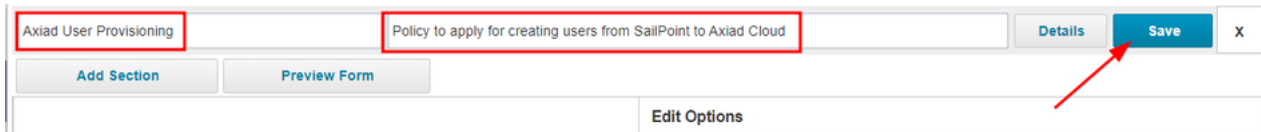
Select how you want to proceed

**Create Policy Form**

**Reference Policy Form**

Cancel

c. Enter a **Form Name** and **Form Description** that are easily referenceable then select **Save**



Axiad User Provisioning

Policy to apply for creating users from SailPoint to Axiad Cloud

Details Save X

Add Section Preview Form

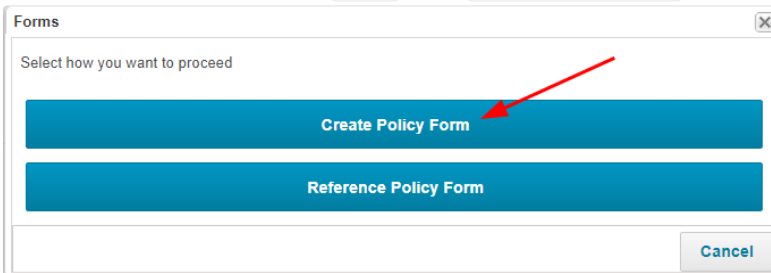
Edit Options

d. Select **Add Policy** next to **Update**



Type	Name	Description	
Create	Axiad User Provisioning	Policy to apply for creating users from SailPoint to Axiad Cloud	Delete Policy
Update			Add Policy
Delete			Add Policy
Enable Account			Add Policy
Disable Account			Add Policy
Unlock Account			Add Policy
Change Password			Add Policy

e. There will be a pop-up window for **Forms** select **Create Policy Form**



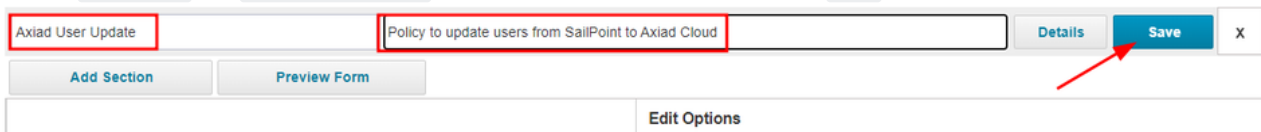
Select how you want to proceed

**Create Policy Form**

**Reference Policy Form**

Cancel

f. Enter a **Form Name** and **Form Description** that are easily referenceable then select **Save**



Axiad User Update

Policy to update users from SailPoint to Axiad Cloud

Details Save X

Add Section Preview Form

Edit Options

g. Select **Add Policy** next to **Delete**



Type	Name	Description	
Create	Axiad User Provisioning	Policy to apply for creating users from SailPoint to Axiad Cloud	Delete Policy
Update	Axiad User Update	Policy to update users from SailPoint to Axiad Cloud	Delete Policy
Delete			Add Policy
Enable Account			Add Policy
Disable Account			Add Policy
Unlock Account			Add Policy
Change Password			Add Policy

h. There will be a pop-up window for **Forms** select **Create Policy Form**

Forms

Select how you want to proceed

Create Policy Form

Reference Policy Form

Cancel

i. Enter a Form Name and Form Description that are easily referenceable then select Save

Axiad User Deletion

Policy to delete users in Axiad Cloud from SailPoint

Details Save X

Add Section Preview Form

Edit Options

16. Select the Correlation tab

Details Configuration Correlation Risk Activity Data Sources

Settings Schema Provisioning Policies

A list of provisioning policies associated with this application. Add a new policy with Add

17. Correlation Configuration options:

a. If you have a correlation configuration created, select it from the drop down

**Account Correlation**

There is currently no correlation configuration assigned to this appl

Select an Existing Configuration Edit New

Select an Existing Configuration

Active Directory Correlation

Axiad Account Correlation

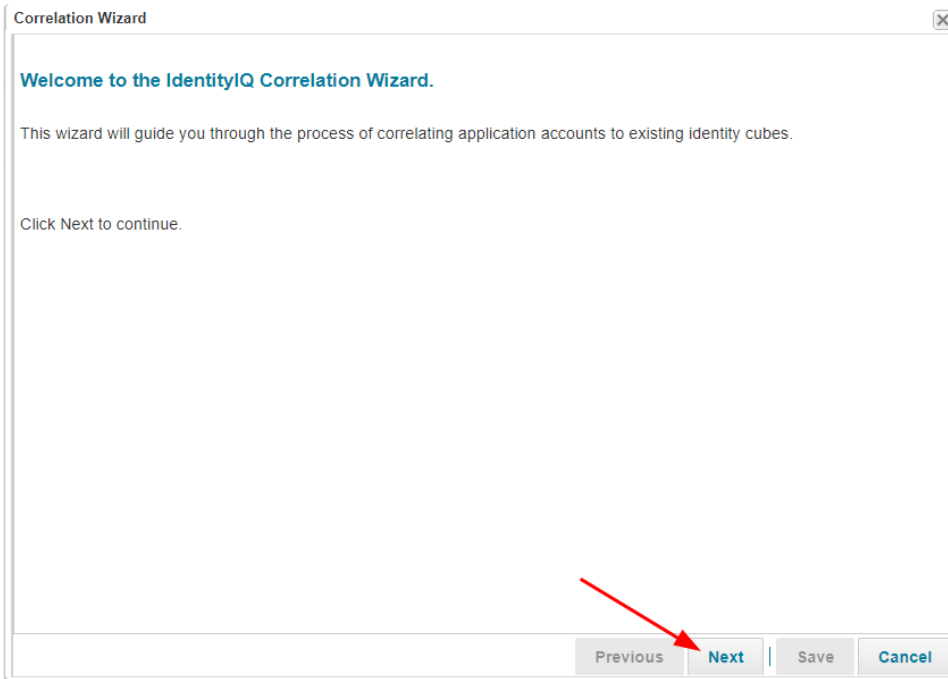
b. If you don't have a configuration configured, select New

**Account Correlation**

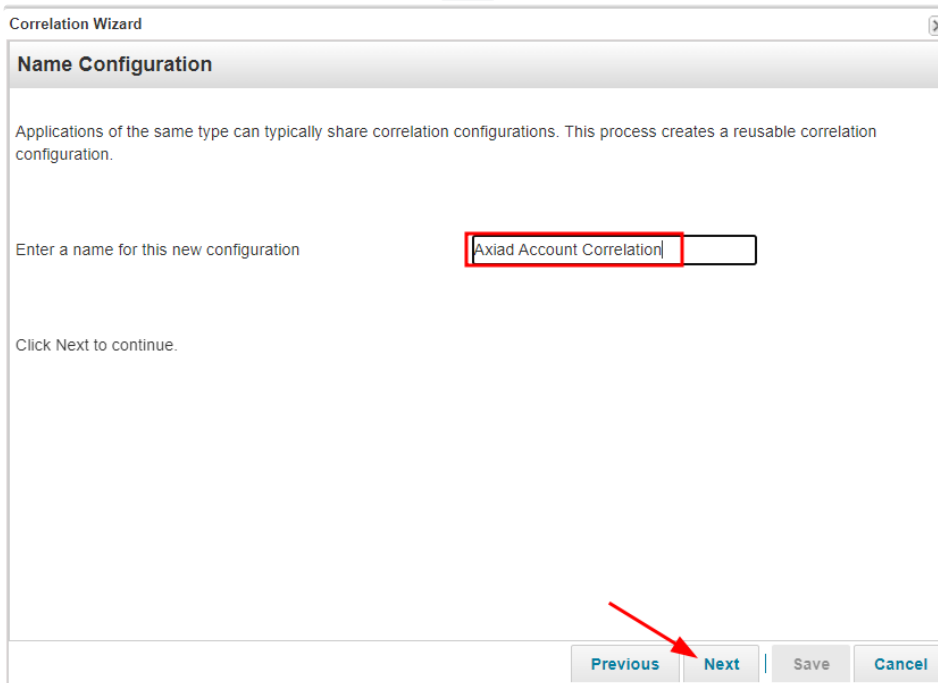
There is currently no correlation configuration assigned to

Select an Existing Configuration Edit New

c. Select Next in the new pop-up window

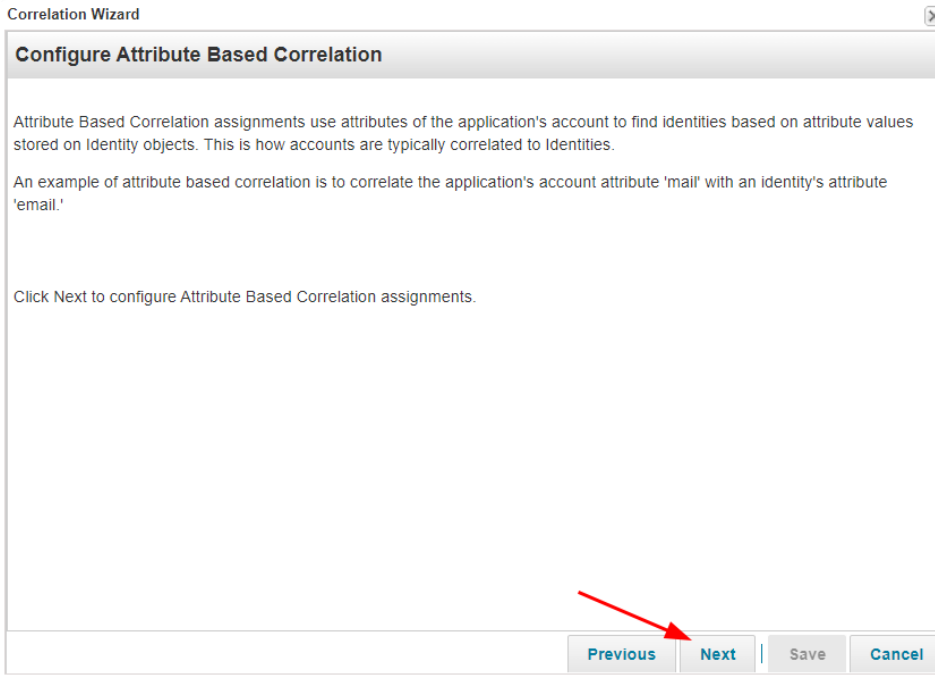


d. Enter a name for the configuration and select Next

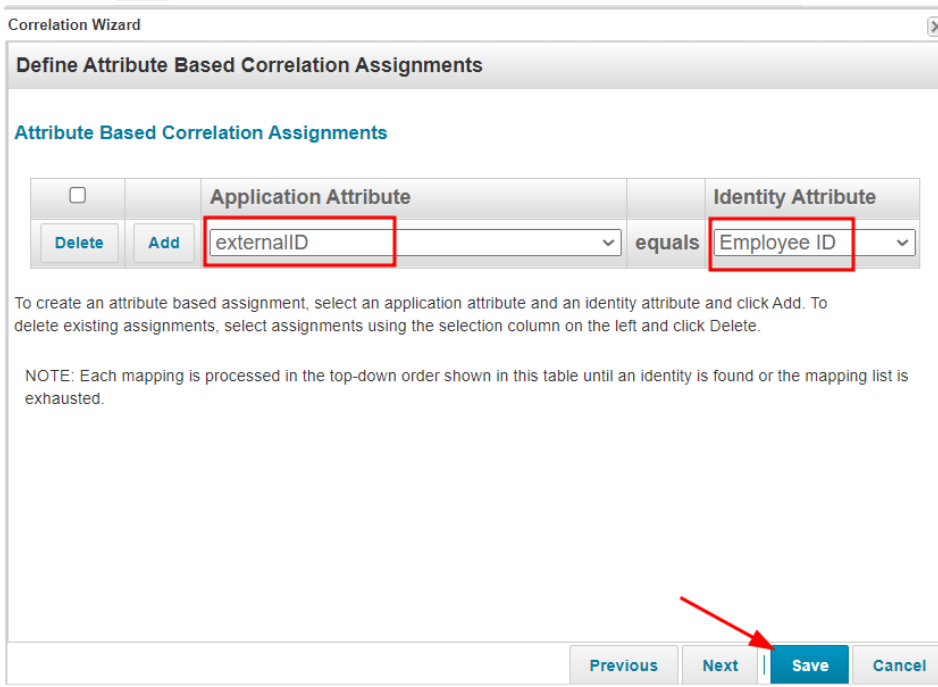


e. Select Next again





f. In the Application Attribute drop down select externalID and in the Identity Attribute drop down select Employee ID then select Save



18. At the bottom of this page select Save to create the new application

## Edit Application Axiad Cloud SCIM

Details Configuration **Correlation** Risk Activity Data Sources Rules Password Policy

**Account Correlation**

To Edit the currently assigned configuration click Edit. If you want to create a New Correlation config click New.

Axiad Account Correlation

**Attribute Based Correlation**

Application Attribute	Identity Attribute
externalid	employeeid

**Condition Based Correlation**

Identity	Conditions

**Manager Correlation**

To configure the manager correlation, specify the name of the application account attribute that references a manager and the identity attribute to use when searching for managers within IdentityIQ.

Application Attribute	Identity Attribute
Select Attribute...	Select Attribute...

## Assigning the application

**i** If you need to do a mass sync, or have a large number of users to assign, please work with your SailPoint customer success engineer to ensure this is done in accordance to specifications for your environment.

## Best practice tips

It's advised to configure your application to run events at certain times to prevent it from putting too much strain on your SailPoint environment. This can be done via LifeCycle events or Scheduled Tasks. Please work with your SailPoint customer success engineer to ensure this is done in accordance to specifications for your environment.

## SCIM User Body definitions

Describes a user belonging to an organization

Name	Description	Schema
<b>active</b> <i>optional</i>	A Boolean value indicating the user's administrative status. The definitive meaning of this attribute is determined by the service provider. As a typical example, a value of true implies that the user is able to log in, while a value of false implies that the user's account has been suspended.	boolean
<b>addresses</b> <i>optional</i>	A physical mailing address for this user. Canonical type values of "work", "home", and "other".	< MultiValueAttribute > array
<b>displayName</b> <i>optional</i>	The name of the user, suitable for display to end-users. Each user returned MAY include a non-empty displayName value.	string
<b>emails</b> <i>optional</i>	Email addresses for the User. Service providers SHOULD canonicalize the value, e.g., "bjensen@example.com" instead of "bjensen@EXAMPLE.COM".	< MultiValueAttribute > array
<b>entitlements</b> <i>optional</i>	A list of entitlements for the user that represent a thing the user has. An entitlement may be an additional right to a thing, object, or service.	< MultiValueAttribute > array

<b>externalId</b> <i>optional</i>	Defined by the client, is required to be unique ONLY within the resources associated with the associated Tenant.	string
<b>groups</b> <i>optional</i>	A list of groups to which the user belongs, either through direct membership, through nested groups, or dynamically calculated.	< <a href="#">MultiValueAttribute</a> > array
<b>id</b> <i>optional</i>	A unique identifier for a SCIM resource as defined by the service provider. Each representation of the resource MUST include a non-empty "id" value. This identifier MUST be unique across the SCIM service provider's entire set of resources. The value of the "id" attribute is always issued by the service provider and MUST NOT be specified by the client.	string
<b>ims</b> <i>optional</i>	Instant messaging address for the user. No official canonicalization rules exist for all instant messaging addresses, but service providers SHOULD, when appropriate, remove all whitespace and convert the address to lowercase.	< <a href="#">MultiValueAttribute</a> > array
<b>locale</b> <i>optional</i>	Used to indicate the User's default location for purposes of localizing such items as currency, date time format, or numerical representations.	string
<b>meta</b> <i>optional</i>	A complex attribute containing resource metadata. All "meta" sub-attributes are assigned by the service provider (have a "mutability" of "readOnly"), and all of these sub-attributes have a "returned" characteristic of "default". This attribute SHALL be ignored when provided by clients	<a href="#">UserMetadata</a>
<b>name</b> <i>required</i>	The components of the user's name. Service providers MAY return just the full name as a single string in the formatted sub-attribute, or they MAY return just the individual component attributes using the other sub-attributes, or they MAY return both. If both variants are returned, they SHOULD be describing the same name, with the formatted name indicating how the component attributes should be combined.	<a href="#">UserFullName</a>
<b>nickName</b> <i>optional</i>	The casual way to address the user in real life. This attribute SHOULD NOT be used to represent a User's username.	string
<b>password</b> <i>optional</i>	This attribute is intended to be used as a means to set, replace, or compare (i.e., filter for equality) a password. The cleartext value or the hashed value of a password SHALL NOT be returnable by a service provider. If a service provider holds the value locally, the value SHOULD be hashed.	string
<b>phoneNumbers</b> <i>optional</i>	Phone numbers for the user. The value SHOULD be specified according to the format 'tel:+1-201-555-0123'.	< <a href="#">MultiValueAttribute</a> > array
<b>photos</b> <i>optional</i>	A URI that is a uniform resource locator that points to a resource location representing the user's image. The resource MUST be a file (e.g., a GIF, JPEG, or PNG image file) rather than a web page containing an image.	< <a href="#">MultiValueAttribute</a> > array
<b>preferredLanguage</b> <i>optional</i>	Indicates the user's preferred written or spoken languages and is generally used for selecting a localized user interface	string
<b>profileUrl</b> <i>optional</i>	A URI that is a uniform resource locator. and that points to a location representing the user's online profile.	string
<b>roles</b> <i>optional</i>	A list of roles for the user that collectively represent who the user is, e.g., "Student", "Faculty".	< <a href="#">MultiValueAttribute</a> > array
<b>timezone</b> <i>optional</i>	The User's time zone, in IANA Time Zone database format, also known as the "Olson" time zone database format (e.g., "America/Los_Angeles").	string
<b>title</b> <i>optional</i>	The user's title.	string
<b>urn:ietf:params:scim:schemas:extension:CustomExtensionName:2.0:User</b> <i>optional</i>	Custom attributes of an user which is in key-value pair.	< string, object > map
<b>urn:ietf:params:scim:schemas:extension:enterprise:2.0:User</b> <i>optional</i>	Enterprise user schema extension.	<a href="#">EnterpriseUserExtension</a>
<b>userName</b> <i>required</i>	A service provider's unique identifier for the user. This identifier MUST be unique across the service provider's entire set of Users. This attribute is REQUIRED and is case insensitive.	string
<b>userType</b> <i>optional</i>	Used to identify the relationship between the organization and the user.	string
<b>x509Certificates</b> <i>optional</i>	A list of certificates associated with the resource (e.g., a User). Each value contains exactly one DER-encoded X.509 certificate, which	< <a href="#">MultiValueAttribute</a> > array

## SCIM User Body Example

### Request Body

```
{
  "schemas": [
    "urn:ietf:params:scim:schemas:core:2.0:User",
    "urn:ietf:params:scim:schemas:extension:enterprise:2.0:User"
  ],
  "externalId": "<externalId>",
  "userName": "mtest@axiad.dev",
  "name": {
    "familyName": "Test",
    "givenName": "Mitchell"
  },
  "displayName": "Mitchell Test",
  "title": "Partner Integrations Manager",
  "active": true,
  "emails": [
    {
      "type": "work",
      "primary": true,
      "value": "mtest@axiad.dev"
    }
  ],
  "addresses": [
    {
      "type": "work",
      "primary": true,
      "streetAddress": "900 Lafayette St #600",
      "locality": "Santa Clara",
      "region": "California",
      "postalCode": "95050",
      "country": "US"
    }
  ],
  "groups": [],
  "urn:ietf:params:scim:schemas:extension:enterprise:2.0:User": {
    "employeeNumber": "000123854",
    "costCenter": "Integrations",
    "organization": "IT",
    "division": "Integrations",
    "department": "IT",
    "manager": {
      "value": "axiadmanager"
    }
  }
}
```

## Response Body

```
{
  "schemas": [
    "urn:ietf:params:scim:schemas:core:2.0:User",
    "urn:ietf:params:scim:schemas:extension:enterprise:2.0:User"
  ],
  "id": "<id>",
  "externalId": "<externalID>",
  "meta": {
    "resourceType": "user",
    "created": "2023-06-12T08:14:35Z",
    "lastModified": "2023-06-12T08:14:35Z",
    "location": "https://ucms-<tenantName>.<tenantPlatform>.axiadids.net/secuera/api/v3/scim/<tenantName>/Users/<id>"
  },
  "userName": "mtest@axiad.dev",
  "name": {
    "familyName": "Test",
    "givenName": "Mitchell"
  },
  "displayName": "Mitchell Test",
  "title": "Partner Integrations Manager",
  "active": true,
  "emails": [ {
    "type": "work",
    "primary": false,
    "value": "mtest@axiad.dev"
  } ],
  "addresses": [ {
    "type": "work",
    "primary": false,
    "streetAddress": "900 Lafayette St #600",
    "locality": "Santa Clara",
    "region": "California",
    "postalCode": "95050",
    "country": "US"
  } ],
  "urn:ietf:params:scim:schemas:extension:enterprise:2.0:User": {
    "employeeNumber": "000123854",
    "costCenter": "Integrations",
    "organization": "IT",
    "division": "Integrations",
    "department": "IT",
    "manager": {"value": "axiadmanager"}
  }
}
```

## SCIM Group Body definitions

Describes a group belonging to an organization

Name	Description	Schema
<b>displayName</b> <i>required</i>	The group's display name	string
<b>externalId</b> <i>optional</i>	Defined by the client, is required to be unique ONLY within the resources associated with the associated Tenant.	string
<b>id</b> <i>required</i>	A unique identifier for a SCIM resource as defined by the service provider. Each representation of the resource MUST include a non-empty "id" value. This identifier MUST be unique across the SCIM service provider's entire set of resources. The value of the "id" attribute is always issued by the service provider and MUST NOT be specified by the client.	string
<b>members</b> <i>optional</i>	A list of members of the Group. While values MAY be added or removed, sub-attributes of members are "immutable".	< <a href="#">Member</a> > array
<b>meta</b> <i>required</i>	A complex attribute containing resource metadata. All "meta" sub-attributes are assigned by the service provider (have a "mutability" of "readOnly"), and all of these sub-attributes have a "returned" characteristic of "default". This attribute SHALL be ignored when provided by clients	<a href="#">GroupMetadata</a>

## Related articles

- [SailPoint IdentityIQ Application Configuration Guide](#)