SCIM Connector

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Introduction

Description

SCIM connector can manage every target system with a published API that allows the SCIM protocol for communication.

SCIM is basically a REST JSON web service with specific HTTP requests and responses, and also a specific JSON format for attributes and values.

> For more information about SCIM protocol you could visit its home page: SCIM protocol, or to visit the introduction page of our SCIM addon: Introduction to SCIM

Managed System

The official web of SCIM shows all the possible target systems that allow SCIM protocol: SCIM implementations

Some of the most popular implementations:

- Soffid IAM
- Active Directory SCIM Provisioning
- Oracle Identity Manager
- WSO2 Charo
- Salesforce
- Trello
- Slack

> For more information to check if your system may be synchronized with this connector, you do not hesitate to contact us through our Contact form

Prerequisites

t is needed a user with access and permissions to the endpoints and operations required in the scope of the integration.

Also, the documentation, specification or tutorial of the web service, despite SCIM defining a schema for the objects, most applications or servers use to implement extended or customized versions of it.

Download and Install

This addon is located in the Connectors section and its name is **SICM connector.**

> For more information about the installation process, you can visit the Addons Getting started page.

Agent Configuration

Basic

Generic parameters

After the installation of the addon, you may create and configure agent instances.

To configure this SCIM Connector you must select "SCIM" in the attribute "Type" of the generic parameters section in the agents page configuration.

> For more information about how you may configure the generic parameters of the agent, see the following link: Agents configuration

Custom parameters

Below there are the specific parameters for this agent implementation:

Parameter	Description

Server URL	URL of the SCIM web service. It is used as the basis of the URL mapped to call the operations.
Authentication method	Options: • "None": no authentication. • "Basic": it uses "User name" and "Password" parameters to generate a basic authentication token to connect with the "Server URL" • "Token": it uses a token bearer generated from a specific "Authentication URL" using "username" and "password" in a GET HTTP request. The token bearer is used in the next requests to connect with the "Server URL" • "TokenBasic": it uses a token bearer generated from a specific "Authentication URL" using "User name" and "Password" as a basic authentication token. The token bearer is used in the next requests to connect with the "Server URL"
User name	User to authenticate
Password	Password of the user to authenticate
Authentication URL	URL to retrieve the token bearer used to authenticate with the "Server URL"
Enable debug	Two options: "Yes", "No": it enables or not more log traces in the Synchronization Server log

Attribute mapping

This connector can manage users and groups.

Properties

The following properties are defined for each object type:

Property	Meaning
path (required)	Path relative to main service URL where this type of object is to be managed
keyAttribute (required)	The SCIM attribute is used to find objects on SCIM repository
changeProperty (optional)	For authoritative identity sources that support delta changes, this property sets the SCIM attribute used to identify the change number of any object
preventDeletion (optional)	Set to true to prevent Soffid from removing objects

Attributes

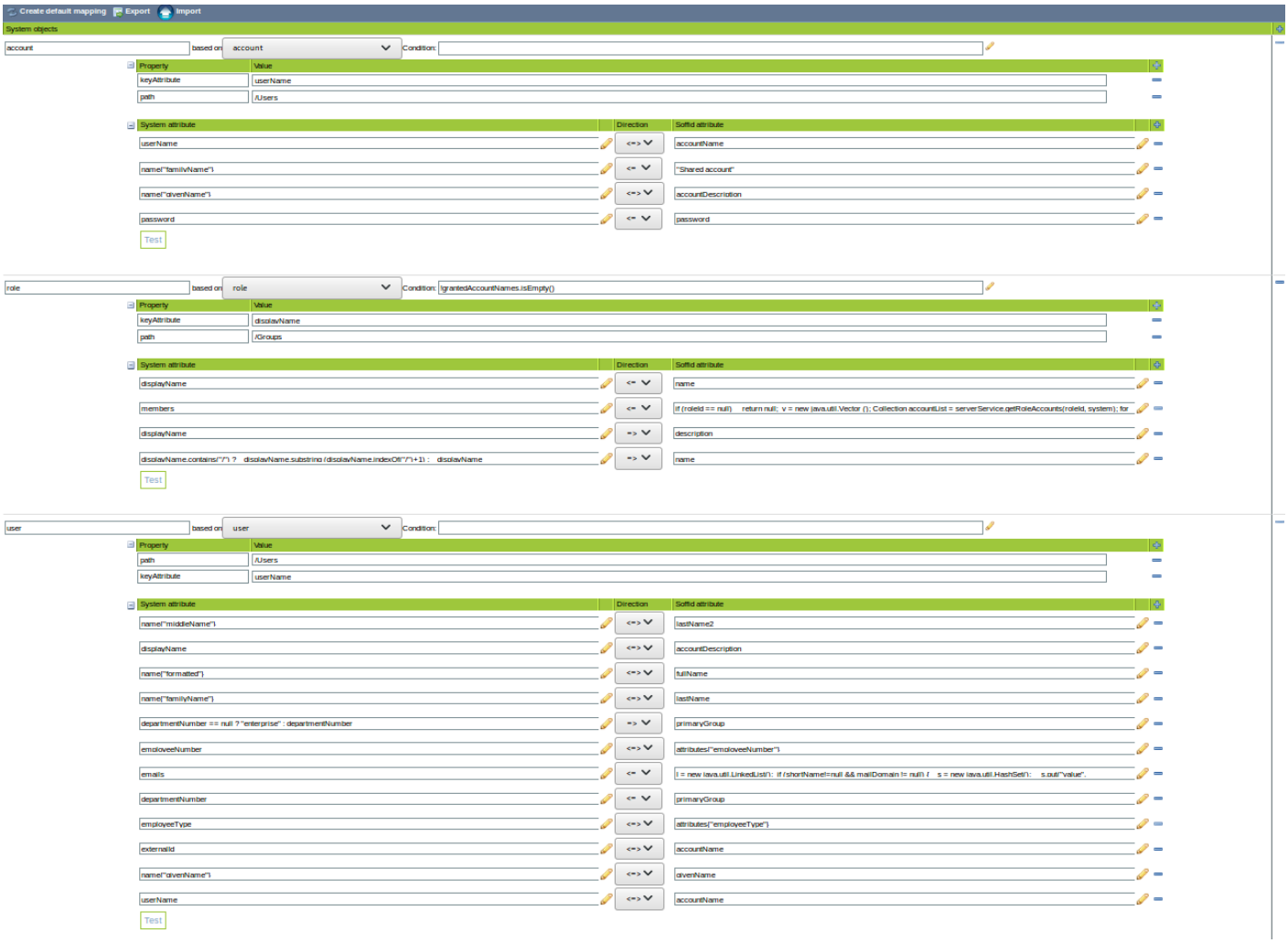
You may map the attributes of the target system with the Soffid available attributes.

- For the target system attributes are required to be access to its specification
- For the Soffid attributes, you may follow the next link

> For more information about how you may configure attribute mapping, see the following link: Soffid Attribute Mapping Reference

> If you are trying to connect to WSO2IS server, you must enable the WSO2 workaround setting, in order to bypass some WSO2 buggy implementations. You can get default mappings for WSO2IS here: wso2is-config.xml. Download it and import it into the Soffid agent attribute mappings form.

For example:



Triggers

Load triggers

Account metadata

Agents allow you to create additional data, on the "Account metadata" tab, to customize the accounts created for that agent. This additional information will be loaded with the agent's information, or calculated as defined in the mappings.
The additional data can be used in both mappings and triggers.

The attributes which you define here will be shown when you click on the proper account, on the Accounts Tabs on the users' page.

Operational

Monitoring

After the agent configuration you could check on the monitoring page if the service is running in the Synchronization Server, please go to:

> Start Menu > Administration > Monitoring and reporting > Syscserver monitoring

Tasks

Authoritative

If you are checked "Authorized identity source", an automatic task to load identities from the managed system to Soffid is available, please go to:

> Start Menu > Administration > Monitoring and reporting > Scheduled tasks

And you will something like "Import authoritative data from <AGENT_NAME>".

Reconcile

If you are configured the "Attribute Mapping" tab with some of our objects: "user, account, role, group or grant", an automatic task to synchronize these objects from the managed system to Soffid is available, please go to:

> Start Menu > Administration > Monitoring and reporting > Scheduled tasks

And you will do something like "Reconcile all accounts from <AGENT_NAME>".

Synchronization

Regarding the synchronization of the objects, there are two possible options:

- If you are checked the generic attribute "Read Only" in the "Basics" tab, only the changes in the managed systems will be updated in Soffid. We recommend these options until the global configuration of Soffid will be tested.
- If you are not checked the generic attribute "Read Only" in the "Basics" tab, all the changes in Soffid or the managed system will be updated in the other. Note that this synchronization must be configured in the "Attribute mapping" tab correctly.

> For more information about how you may configure the generic parameters of the agent, see the following link: Agents configuration