Salesforce Provisioning Plugin

The Salesforce Provisioning Plugin provisions Contacts to Salesforce via the Force.com REST API.

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Operations

Registry CO Person Transaction	Changelog Action
Add	Synchronize the CO Person with Salesforce
Edit	Synchronize the CO Person with Salesforce
Enter Grace Period	No changes (unless attributes change as part of grace period)
Expiration / Becomes Inactive	Synchronize the CO Person with Salesforce
Unexpire / Becomes Active	Synchronize the CO Person with Salesforce
Delete	No changes
Manual Provision	Synchronize the CO Person with Salesforce

Registry CO Group Transaction	Changelog Action
Add	No changes
Edit	No changes
Delete	No changes
Manual Provision	No changes

Registry CO Email List Transaction	Changelog Action
Add	No changes
Edit	No changes
Delete	No changes
Manual Provision	No changes

Configuration

- 1. This is a non-core plugin, see Installing and Enabling Registry Plugins for more information.
- 2. If you already have a Salesforce Server defined with the appropriate configuration (perhaps for use with the Salesforce Source) you can reuse it instead of defining a new one. You only need to complete step 6.
- 3. Add a new Server, via Servers > Add a New Server
 - a. Set the server type to OAuth2.
 - b. After the configuration has been saved, a Redirect URI will be available via the server configuration page. Keep this handy for the next step.
- 4. In another browser tab or window, login to Salesforce. Add a new Connected App via Setup > Quick Links > Manage Apps. Click the New button in the Connected Apps section.
 - a. Set the Connected App Name and Contact Email.
 - b. Under API, tick Enable OAuth Settings.
 - c. Set the Callback URL to the URI provided in step 1, above.
 - d. Added at least these two OAuth Scopes:
 - i. Access and manage your data (api)
 - ii. Perform requests on your behalf at anytime (refresh_token, offline_access)
 - e. Click Save. (You may need to scroll up to see the confirmation message.)
 - f. On the next page, a Consumer Key and Consumer Secret will be made available. Keep these handy for the next step.
- 5. Return to the OAuth2 Server configuration and complete the configuration.

- a. Server URL: The base URL of your Salesforce instance with /services/oauth2 appended, eg https://test.salesforce.com/services /oauth2
 - i. () The plugin will work with either the generic service name (test.salesforce.com) or a specific instance (cs123.salesforce.com), but note that Salesforce periodically migrates customers to new instances (in Salesforce terms, an *instance refresh*). In such an event, when configured with the generic service name the plugin should detect the new instance automatically, though it may be necessary to obtain a new token (described below).
- b. *Client ID*: The Consumer Key obtained in step 2.
- c. Client Secret: The Consumer Secret obtained in step 2.
- d. Access Token Grant Type: Authorization Code
- e. Scope: (Leave blank)
- f. Click Save.
- 6. Define a new CO Provisioning Target using the SalesforceProvisioner plugin. On the configuration page, select the Server set up above and click Save.
- 7. Finally, return to the OAuth2 Server configuration to obtain an OAuth token.
 - a. The configuration should indicate that the Access Token is "Not Set", and there should now be a button "Obtain New Token".
 - b. Upon clicking that button, you will be taken to the Salesforce login page. Log in as a sufficiently authorized user.
 - c. After successful login, you should be returned to the OAuth2 Server configuration page, and the Access Token should now be "Set".
 - d. () Should it ever be necessary to obtain a new token (eg: if the administrator who performed the initial setup no longer has a valid Salesforce account), simply return to the configuration page and click the "Obtain New Token" button again.

CoPerson Custom Object

The SalesforceProvisioner plugin supports the use of a Salesforce Custom Object in order to provide additional attributes (see below) beyond what is supported in the Salesforce Contact record. To enable support for the CoPerson Custom Object:

- 1. Login to Salesforce and navigate to Setup > Create > Objects.
- 2. Click New Custom Object. Use the follow (exact) values:
 - a. Label: CoPerson
 - b. Plural Label: CoPeople
 - c. Object Name: CoPerson
 - d. Record Name: CoPerson ObjectID
 - e. Data Type: Auto Number
 - f. Display Format: C{0}
 - g. Starting Number: 100000 (or whatever number you prefer)
 - h. Deployment Status: Deployed

3. Create the following Custom Fields, again using the exact configuration specified:

- a. Field Label and Field Name: Contact
 - i. Data Type: Master-Detail
 - ii. Related To: Contact
 - iii. Child Relationship Name: CoPeople
- b. Field Label and Field Name: Application ID
 - i. Data Type: Text
 - ii. Length: 255
- c. Field Label and Field Name: ORCID
 - i. Data Type: Text
 - ii. Length: 255
- d. Field Label and Field Name: Platform ID
 - i. Data Type: Text
 - ii. Length: 255
 - iii. External ID: Checked
- e. Field Label and Field Name: Status
 - i. Data Type: Text
 - ii. Length: 32
- 4. In the COmanage plugin configuration, tick Enable CoPerson Custom Object Support.
 - a. Setting an Identifier type for CoPerson Platform ID Identifier Type is required. This identifier is considered by Salesforce as the External ID, and so must always be populated and unique. Identifier Assignments may be useful.

1 The above instructions will not cause the Custom Object to appear on the Contact page, though it is visible if directly addressed.

Attributes

The Salesforce Provisioner uses the following attribute mapping:

Registry Attribute	Salesforce Attribute	Notes
Address:country (type postal)	MailingCountry	First Address of type postal associated with the first CoPersonRole
		A Values must be from Salesforce picklist. Attribute Enumerations may be useful.
Address:locality (type postal)	MailingCity	First Address of type postal associated with the first CoPersonRole
Address:postal_code (type postal)	MailingPostalCode	First Address of type postal associated with the first CoPersonRole
Address:state (type postal)	MailingState	First Address of type postal associated with the first CoPersonRole
		A Values must be from Salesforce picklist. Attribute Enumerations may be useful.

Address:street (appended with Address: room, if set) (type postal)	MailingStreet	First Address of type <i>postal</i> associated with the first CoPersonRole
CoPerson:status	CoPersonc: Statusc	If CoPerson custom object is enabled
CoPersonRole:ou	Department	Department associated with the first CoPersonRole, sorted by CoPersonRole order.
CoPersonRole:title	Title	Title associated with the first CoPersonRole, sorted by CoPersonRole order.
EmailAddress:mail	Email	If <i>Email Address Type</i> is set, the first Email Address of the specified type is used. Otherwise, the first Email Address of any type is used.
Identifier:identifier	CoPersonc: Application_IDc	If CoPerson custom object is enabled, type as configured in <i>CoPerson Application ID Identifier Type</i>
Identifier:identifier	CoPersonc: Platform_IDc	If CoPerson custom object is enabled, type as configured in <i>CoPerson Platform ID Identifier Type</i>
Identifier:identifier (type orcid)	CoPersonc: ORCIDc	If CoPerson custom object is enabled
Name:honorific	Salutation	Primary Name is used, regardless of type
Name:given	FirstName	Primary Name is used, regardless of type
Name:middle	Middlename	Primary Name is used, regardless of type
		A Middle Name is not enabled by default in Salesforce. Once enabled there, tick <i>Provision Middle Name</i> in the Provisioner configuration.
Name:family	LastName	Primary Name is used, regardless of type
Name:suffix	Suffix	Primary Name is used, regardless of type
TelephoneNumber:number (type mobile)	MobilePhone	First TelephoneNumber of type mobile associated with the first CoPersonRole
TelephoneNumber:number (type office)	Phone	First TelephoneNumbe of type office associated with the first CoPersonRole

Understanding API Usage

The Salesforce API has request limits that vary according to the service tier and available licenses. To view current API usage, use the Salesforc e Source plugin if configured, or login to Salesforce and navigate to Reports > Administrative Reports > API Usage Last 7 Days.

Onote that the API call required to determine the current API limits counts against the API limit.

In general, each provisioning operation (create or update) requires 1 API call, plus an additional API call if the CoPerson custom object is enabled.

See Also

cm_co_salesforce_provisioner_targets