



Global
Pre-Sales

TIBCO Cloud Integration Connector to Yammer

This document provides step-by-step instructions on how to develop a TIBCO Cloud Integration connector for a Yammer application using its REST API. This document can be used as a reference.

Document Version: 1.0

Document Date: August 26, 2016

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Revision History

Version	Date	Author	Comments
1.0	08/26/2016	Sai Kumar Bacha, Anvesh Pagadala	Initial Version

Approvals

This document requires the following approvals. Signed approval forms are filed in the project files.

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Table of Contents

Prerequisites	5
Part A – Define API Spec for Connector Application.....	6
1.1 Overview.....	6
1.2 Directions.....	6
Part B – Application designed using Business Studio.....	9
1.3 Overview.....	9
1.4 Operations	9
Part C – How to Test Our Application	10
1.1 StepsExplained	10

Prerequisites

1. Latest version of Google Chrome browser should already be installed on your Laptop/MacBook.
2. You should have a valid TIBCO Cloud Integration Account to test our application on cloud.
3. Latest version of TIBCO Business Studio Cloud Edition should already be installed on your Laptop/MacBook.
4. (Optional) TIBCO Cloud – Command Line Interface should be installed on your Laptop/MacBook.

Please check documentation for installation instructions -

<https://integration.cloud.tibco.com/docs/getstarted/installation/index.html>

Yammer Connection and Authentication

5. Yammer uses OAuth2.0 protocol as the authorization mechanism. More information on OAuth protocol can be found at <http://oauth.net>.
6. Start by registering your app to obtain its Yammer Client ID and Client Secret. Application registration URL is <https://developer.yammer.com/docs/app-registration>
7. After registering your application click on [Generate a developer token for this application](#) and your Personal token is shown.

Part A – Define API Spec for Connector Application

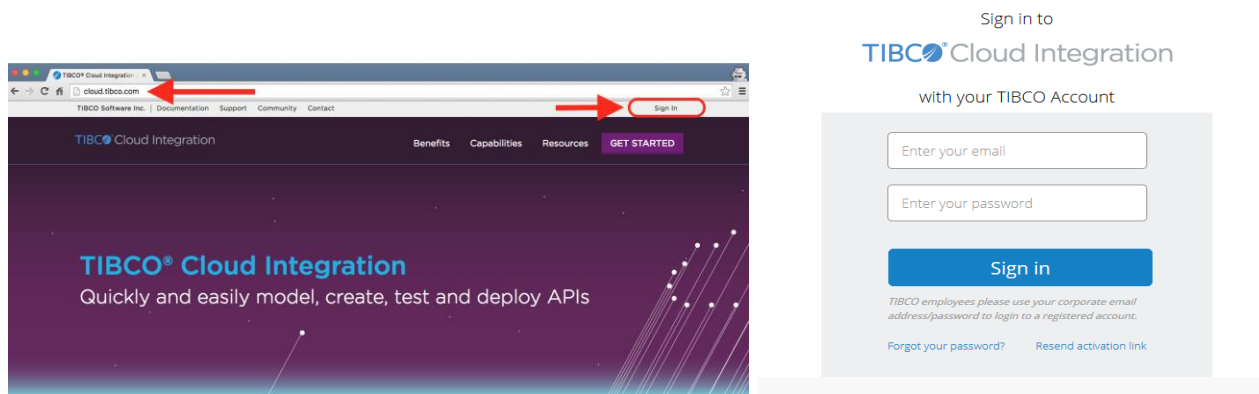
1.1 Overview

We are going to create a sample application to call Yammer REST API .For more information on Yammer REST API operations refer to <https://developer.yammer.com/docs/>

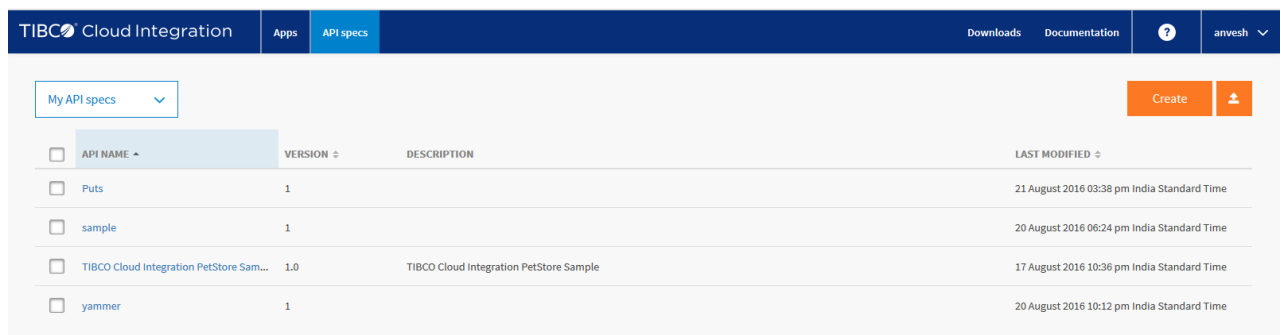
In this tutorial, you will login to the [TIBCO Cloud Integration](#) and create API specification for [Yammer Connectivity](#).

1.2 Directions

Step 1: Login to TIBCO Cloud Integration. <https://cloud.tibco.com/>



Step 2: Once you are logged in, from the TIBCO® Cloud Integration main page click the [API Specs](#) option from the top menu. This will open the API Modeling Tool

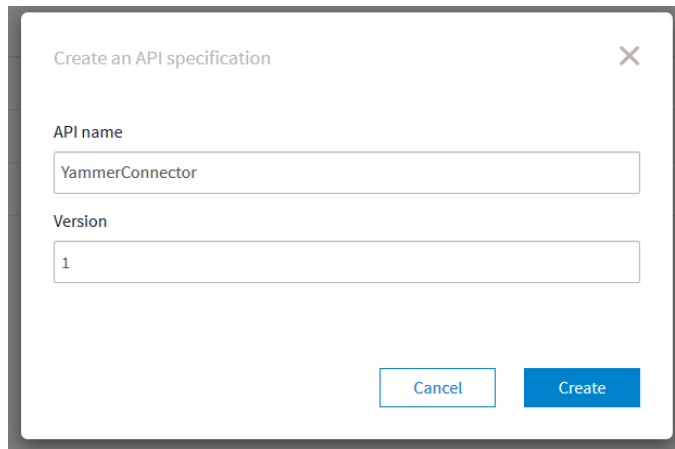


Step 3: To create a new API specification (the contract on which the API will be built) click on [Create](#) button

Step 4: Every new API specification needs two basic elements, a name and a version, before the modeling can start. For this tutorial, let's use the following:

- API Name: YammerConnector
- Version: 1.0

Please note that the name and the version number must be unique



Create an API specification

API name

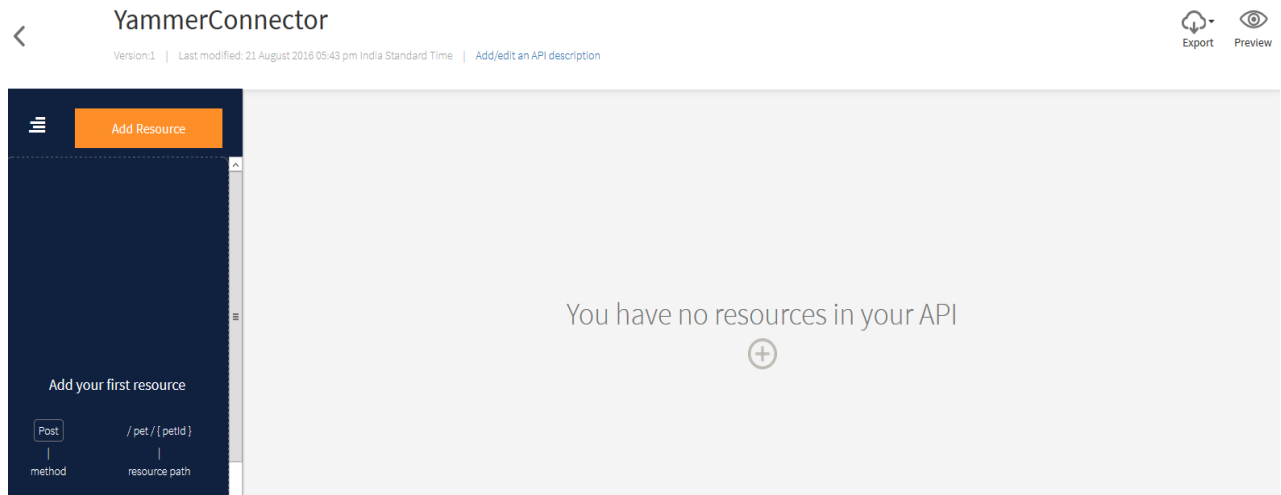
YammerConnector

Version

1

Cancel Create

Step 5: After you fill in the details click on the blue **Create** button which will take you to the API Modeler



Step 6:

- Click on the [Add Resource](#) button
- On the path enter `/api/v1/messages/{method_name}`. This will create a new resource with parameter `method_name`.
- Click on [GET](#) and click [Save](#). Add query parameters `older_than`, `newer_than`, `threaded` and `limit`.

As per this API specification, the `/api/v1/messages/` endpoint supports GET requests and accepts a parameter `method_name` and `older_than`, `newer_than`, `threaded` and `limit`.

The screenshot shows the API Explorer interface for a GET endpoint. The path is `/api/v1/messages/{method_name}`. Below the path, there is a description: "It gets All messages sent by the user. Use method name as 'sent' to invoke this operation examp...". The URL parameters section shows the following parameters:

Parameter Name	Type	Description	Default Value
<code>method_name</code>	string	Use "sent" as method to retrieve all sent messages	sent
<code>older_than</code>	integer	Returns messages older than the message ID specified as a numeric string.	Default value
<code>newer_than</code>	integer	Returns messages newer than the message ID specified as a numeric string	Default value
<code>threaded</code>	boolean	It returns the first message in each thread. This parameter is intended for apps which display message threads collapsed.	Default value
<code>limit</code>	integer	Returns only the specified number of messages. Works for <code>threaded=true</code> and <code>threaded=extended</code> .	Default value

Similarly add other methods, operations and the parameters specified by API.

Part B – Application designed using Business Studio

1.3 Overview

The following operations for yammer were implemented in [YammerConnector Application](#) developed in [TIBCO Business Studio Cloud Edition](#)

1.4 Operations

GetProfile: Get User Profile Detail.

UpdateProfileRequest: Updates the fields Full Name, Department name and Job Title in user profile

SentMessages: Get all Messages sent by the user.

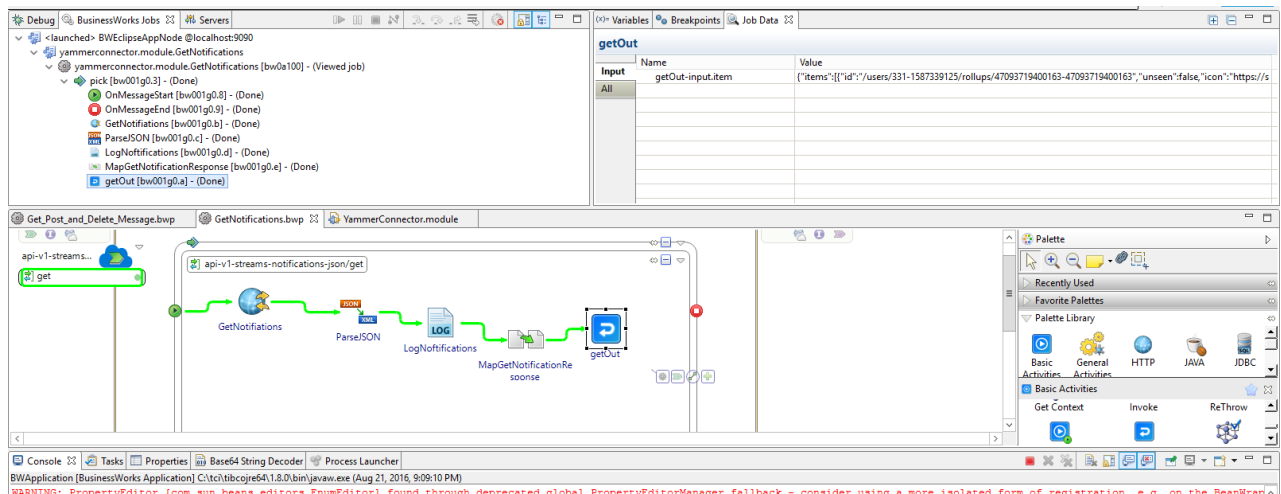
PostMessage: Post message to group, individual, personal wall or reply to message.

DeleteMessage: Delete Message by message id.

GetNotifications: Get the notifications feed for the current user.

PostMessageToUser: Posts a message to a registered user in the yammer network based on the email id mentioned.

Sample GetNotifications Scenario testing:



Part C – How to Test Our Application

1.1 Steps Explained

1. Using the EAR and JSON file provided, deploy our application onto cloud.
2. Once the application is deployed successfully, Click on “View and Test” and then click on View API.
3. List of operations to be tested are displayed.

The screenshot displays the TIBCO Cloud Integration API Tester interface. At the top, there's a header with the TIBCO logo and 'Cloud Integration' text, followed by a tab labeled 'API Tester'. Below this, the 'Yammer Connector' is listed with the description 'Connects to Yammer through it's REST API'. A section titled 'default' shows a list of API operations. Each operation is represented by a colored bar with a method name (POST, DELETE, GET, PUT) and a URL path. The operations are:

- POST /api/v1/PostMessageToUser/{email}
- DELETE /api/v1/messages/{method_name}
- GET /api/v1/messages/{method_name}
- POST /api/v1/messages/{method_name}
- GET /api/v1/streams/notifications.json
- GET /api/v1/users/{method_name}
- PUT /api/v1/users/{method_name}

At the bottom, the base URL and API version are shown: [BASE URL: /6khgtf6ddhtr/2va4t5bkmsgk5gkck24/PostMessageToUserAPI , API VERSION: 1.0]

4. Click on “Get” (/api/v1/messages/{method_name}) and provide the required parameters. By Default Integers are shown with value as 0. Give specific values as described to display accurate results. Provide Developer Token that you have generated as Token Value and test it.

Try it out! Hide Response

Curl

```
curl -X GET --header 'Accept: text/plain' --header 'TokenValue: 331-VJJqhCgDUkxt8zW584uXqg' 'https://integration.cloud.tibcoapps.com:443/6khgtf6ddhnr2va4t5bkmsgk5gkck24/PostMessageToUserAPI/api/v1/messages/sent?threaded=false&limit=10'
```

Request URL

```
https://integration.cloud.tibcoapps.com:443/6khgtf6ddhnr2va4t5bkmsgk5gkck24/PostMessageToUserAPI/api/v1/messages/sent?threaded=false&limit=10
```

Response Body

```
{
  "threaded_extended": {
    "messages": [
      {
        "id": "756089673",
        "sender_id": "1587339125",
        "replied_to_id": null,
        "created_at": "2016/08/26 19:48:55 +0000",
        "network_id": "331",
        "message_type": "update",
        "sender_type": "user",
        "url": "https://www.yammer.com/api/v1/messages/756089673",
        "web_url": "https://www.yammer.com/tibco.com/messages/756089673",
        "group_id": "8874761",
        "body": {
          "parsed": "\Hello!Good Evening",
          "plain": "\Hello!Good Evening",
          "rich": "\Hello!Good Evening",
          "thread_id": "756089673",
          "client_type": "TestApplication12",
          "client_url": "https://integration.manage.com/",
          "system_message": false,
          "direct_message": false,
          "chat_client_sequence": null,
          "language": "en",
          "notified_user_ids": [],
          "privacy": "private",
          "attachments": [],
          "liked_by": {
            "count": 0,
            "names": []
          },
          "additional_data": {},
          "content_excerpt": "\Hello!Good Evening",
          "group_created_id": "8874761",
          "id": "756089639",
          "sender_id": "1587339125",
          "replied_to_id": null,
          "created_at": "2016/08/26 19:48:49 +0000",
          "network_id": "331",
          "message_type": "update",
          "sender_type": "user",
          "url": "https://www.yammer.com/api/v1/messages/756089639",
          "web_url": "https://www.yammer.com/tibco.com/messages/756089639",
          "group_id": "8874761",
          "body": {
            "parsed": "\Hello!Good Evening",
            "plain": "\Hello!Good Evening",
            "rich": "\Hello!Good Evening",
            "thread_id": "756089639",
            "client_type": "TestApplication12",
            "client_url": "https://integration.manage.com/",
            "system_message": false,
            "direct_message": false,
            "chat_client_sequence": null,
            "language": "no",
            "notified_user_ids": [],
            "privacy": "private",
            "attachments": [],
            "liked_by": {
              "count": 0,
              "names": []
            },
            "additional_data": {},
            "content_excerpt": "\Hello!Good Evening",
            "group_created_id": "8874761",
            "id": "756005042",
            "sender_id": "1587339125",
            "replied_to_id": "753041358",
            "created_at": "2016/08/26 16:31:22 +0000",
            "network_id": "331",
            "message_type": "update",
            "sender_type": "user",
            "url": "https://www.yammer.com/api/v1/messages/756005042",
            "web_url": "https://www.yammer.com/tibco.com/messages/756005042",
            "group_id": "8874761",
            "body": {
              "parsed": "Hi Sai Bacha",
              "plain": "Hi Sai Bacha",
              "rich": "Hi Sai Bacha",
              "thread_id": "753041358",
              "client_type": "TestApplication12",
              "client_url": "https://integration.manage.com/",
              "system_message": false,
              "direct_message": false,
              "chat_client_sequence": null,
              "language": "sv",
              "notified_user_ids": [],
              "privacy": "private",
              "attachments": [],
              "liked_by": {
                "count": 0,
                "names": []
              },
              "additional_data": {},
              "content_excerpt": "Hi Sai Bacha",
              "group_created_id": "8874761",
              "id": "756000977",
              "sender_id": "1587339125",
              "replied_to_id": null,
              "created_at": "2016/08/26 16:21:38 +0000",
              "network_id": "331",
              "message_type": "update",
              "sender_type": "user",
              "url": "https://www.yammer.com/api/v1/messages/756000977",
              "web_url": "https://www.yammer.com/tibco.com/messages/756000977",
              "group_id": "8874761",
              "body": {
                "parsed": "Hi Sai Bacha",
                "plain": "Hi Sai Bacha",
                "rich": "Hi Sai Bacha",
                "thread_id": "756000977",
                "client_type": "TestApplication12",
                "client_url": "https://integration.manage.com/",
                "system_message": false,
                "direct_message": false,
                "chat_client_sequence": null,
                "language": "vi",
                "notified_user_ids": [],
                "privacy": "private",

```

- Click on Delete (/api/v1/messages/{method_name}) operation and provide message_id with value that is obtained when we test "Get" (/api/v1/messages/{method_name}) operation as above.
- In the similar way, try other operations as well.