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**GlobalSight Restful APIs**

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| --- | --- | --- | --- |
| **Date** | **Description** | **Version** | **Author** |
| 2016/05/04 | Initial Version | 0.1 | York Jin |
| 2016/06/27 | Change to use access token instead of basic authorization | 0.2 | York Jin |
| 2016/07/01 | Add job management APIs | 0.3 | Allie Su |
| 2016/08/24 | Change authorization way for login; use companyID instead of companyName as path parameter | 0.4 | York Jin |

# Description of Restful APIs

GlobalSight RESTful APIs are based on RESTEasy framework.

First, use [http://hostName:port/globalsight/restfulServices/companies/{companyID}/login-helper](http://hostName:port/globalsight/restfulServices/companies/%7bcompanyID%7d/login-helper) to get an access token with valid “username” and “password”.

The login() method must be called prior to using the web services. The login() method takes in a username and password, and returns an access token and company ID as a JSON string. The username/password must be valid to access GlobalSight. The returned access token must then be passed to subsequent web service calls.

A sample URL is [http://hostName:port/globalsight/restfulServices/1.0/companies/{companyID}/tms](http://hostName:port/globalsight/restfulServices/1.0/companies/%7bcompanyID%7d/tms), “tms” points to a translation memory resource. For a TM resource, the URL prefix is same. “1.0” means current restful APIs version. Note that login API has no version in URL.

A java project is provided in GlobalSight open source code base so that developer can find client code samples for white-box testing purpose: main6\tools\client tools\RestWebServices.

# Login API

## [restfulServices/companies/{companyID}/login-helper](http://hostName:port/globalsight/restfulServices/companies/%7bcompanyName%7d/tms)(GET)

**Overview**: Get an access token for the other APIs

**REST Method**: GET

**Method Access:** public

**Path Parameters:**

companyID: current company ID.

**Query Parameters:**

None.

**Return Message Sample:**

{"companyID":1000,"accessToken":"ii+HMTp9os=<separator>MOO74sma9o=+\_+York"}

**Notes:**

**It is a bit different to invoke login to get access token: it uses “Basic Authorization” way. Below are sample codes** (refer to “LoginResourceTester.java” of “main6\tools\client tools\RestWebServices” project for details).

/\*\*

\* http://localhost:8080/globalsight/restfulServices/companies/{companyID}/login-helper

\*/

**public** String testLogin(String userName, String password)

{

CloseableHttpClient httpClient = getHttpClient();

HttpResponse httpResponse = **null**;

**try**

{

String url = "http://localhost:8080/globalsight/restfulServices/companies/1000/login-helper";

HttpGet httpGet = getHttpGet(url, userName, password);

httpResponse = httpClient.execute(httpGet);

**return** printHttpResponse(httpResponse);

}

**catch** (Exception e)

{

e.printStackTrace();

}

**finally**

{

consumeQuietly(httpResponse);

}

**return** **null**;

}

**private** HttpGet getHttpGet(String url, String userName, String password)

{

HttpGet httpget = **new** HttpGet(url);

**httpget.setHeader(HttpHeaders.*AUTHORIZATION*,**

***authorizationHeader*(userName, password));**

**return** httpget;

}

**How to use access token in subsequent** **APIs:**

After get a token, it is used as a header parameter “**accessToken**” in all subsequent APIs.

For example, to get all translation memories information, the sample codes are:

// “myAccessToken” is retrieved from login.

Private String myAccessToken = “MSOA9IWD5Yw=<separator>69aTAjGJs8s=+\_+ABC”;

**public** **void** testGetTms()

{

CloseableHttpClient httpClient = getHttpClient();

HttpResponse httpResponse = **null**;

**try**

{

String url = “http://localhost:8080/globalsight/restfulServices/1.0/companies/{companyID}/tms”;

HttpGet httpGet = getHttpGet(url, myAccessToken);

httpResponse = httpClient.execute(httpGet);

printHttpResponse(httpResponse);

}

**catch** (Exception e)

{

e.printStackTrace();

}

**finally**

{

consumeQuietly(httpResponse);

}

}

**protected** HttpPost getHttpPost(String url, String myAccessToken)

{

HttpPost httppost = **new** HttpPost(url);

Httppost.setHeader(***“***accessToken***”***, myAccessToken);//different from login

**return** httppost;

}

**protected** HttpGet getHttpGet(String url, String myAccessToken)

{

HttpGet httpget = **new** HttpGet(url);

httpget.setHeader(***“***accessToken***”***, myAccessToken);

**return** httpget;

}

**protected** HttpPut getHttpPut(String url, String myAccessToken)

{

HttpPut httpput = **new** HttpPut(url);

httpput.setHeader(***“***accessToken***”***, myAccessToken);

**return** httpput;

}

**protected** HttpDelete getHttpDelete(String url, String myAccessToken)

{

HttpDelete httpdelete = **new** HttpDelete(url);

httpdelete.setHeader(“accessToken”, myAccessToken);

**return** httpdelete;

}

# Translation Memory APIs

## [restfulServices/1.0/companies/{companyID}/tms](http://hostName:port/globalsight/restfulServices/companies/%7bcompanyName%7d/tms) (GET)

**Overview**: Get all project TMs information

**REST Method**: GET

**Method Access:** public

**Path Parameters:**

companyID: current company ID.

**Query Parameters:**

None.

**Return Message Sample:**

[

{

"id": 34,

"name": "0001693",

"description": "",

"organization": "",

"domain": "",

"creationUser": "welocalizeadmin",

"companyId": 2

},

{

"id": 15,

"name": "tm-4240-3",

"description": "",

"organization": "",

"domain": "",

"creationUser": "welocalizeadmin",

"companyId": 2

}

]

## restfulServices/1.0/companies/{companyID}/tms/{tmId}/tus (POST)

**Overview**: Create a new TU.

**REST Method**: POST

**Method Access:** public

**Path Parameters:**

companyID: current company ID.

tmId: TM ID.

**Query Parameters:**

sourceLocale: the source locale. Required.

sourceSegment: the source string. Required.

targetLocale: the target locale. Required.

targetSegment: the target string. Required.

sid: the SID. Optional.

escapeString: Is convert all the escapable characters into their string

(Escaped) equivalents or not, available values: true|false. Optional.

**Return Message Sample:**

A “success” message.

## restfulServices/1.0/companies/{companyID}/tms/{tmId}/tus/{id} (GET)

**Overview**: Get TU data by ID.

**REST Method**: GET

**Method Access:** public

**Path Parameters:**

companyID: current company ID.

tmId: TM ID.

Id: the TU id to query. Required.

**Query Parameters:**

None

**Return Message Sample:**

<tu tuid="1452006">

<tuv xml:lang="EN-US" creationdate="20111216T130931Z" creationid="gselpm">

<prop type="x-creationproject">p1</prop>

<seg><bpt i="1" type="bold" x="1">&lt;B&gt;</bpt>About GlobalSight:<ept i="1">&lt;/B&gt;</ept></seg>

</tuv>

<tuv xml:lang="FR-FR" creationdate="20111216T130931Z" creationid="gselpm" changedate="20160503T173657Z" changeid="system" >

<prop type="x-creationproject">p1</prop>

<seg><bpt i="1" type="bold" x="1">&lt;B&gt;</bpt>Sur GlobalSight:<ept i="1">&lt;/B&gt;</ept></seg>

</tuv>

</tu>

## restfulServices/1.0/companies/{companyID}/tms/{tmId}/tus (GET)

**Overview**: Get TU data by specified start ID and offset.

**REST Method**: GET

**Method Access:** public

**Path Parameters:**

companyID: current company ID.

tmId: TM ID.

Id: the TU id to query. Required.

**Query Parameters:**

startId: the start TU id (excluded). Optional. Default start with the first id.

Offset: TU id offset. Optional. Default 1.

sourceLocale: The source locale, like "EN\_US"(case-insensitive). Required.

targetLocale: The target locale, like "FR\_FR"(case-insensitive). Optional.

**Return Message Sample:**

<tu tuid="1452006">

<tuv xml:lang="EN-US" creationdate="20111216T130931Z" creationid="gselpm">

<prop type="x-creationproject">p1</prop>

<seg><bpt i="1" type="bold" x="1">&lt;B&gt;</bpt>About GlobalSight:<ept i="1">&lt;/B&gt;</ept></seg>

</tuv>

<tuv xml:lang="FR-FR" creationdate="20111216T130931Z" creationid="gselpm" changedate="20160503T173657Z" changeid="system" >

<prop type="x-creationproject">p1</prop>

<seg><bpt i="1" type="bold" x="1">&lt;B&gt;</bpt>Sur GlobalSight:<ept i="1">&lt;/B&gt;</ept></seg>

</tuv>

</tu>

<tu tuid="1452007">

<tuv xml:lang="EN-US" creationdate="20111216T130931Z" creationid="gselpm">

<prop type="x-creationproject">p1</prop>

<seg><bpt i="1" type="bold" x="1">&lt;B&gt;</bpt>About GlobalSight TMS:<ept i="1">&lt;/B&gt;</ept></seg>

</tuv>

<tuv xml:lang="FR-FR" creationdate="20111216T130931Z" creationid="gselpm" changedate="20160503T173657Z" changeid="system" >

<prop type="x-creationproject">p1</prop>

<seg><bpt i="1" type="bold" x="1">&lt;B&gt;</bpt>Sur GlobalSight TMS:<ept i="1">&lt;/B&gt;</ept></seg>

</tuv>

</tu>

## restfulServices/1.0/companies/{companyID}/tms/{tmId}/tus (PUT)

**Overview**: Edit Tus by TU TMX content.

**REST Method**: PUT

**Method Access:** public

**Path Parameters:**

companyID: current company ID.

tmId: TM ID.

**Query Parameters:**

None.

**Input:** A TU data in TMX.

<tu tuid="1452006">

<tuv xml:lang="EN-US" creationdate="20111216T130931Z" creationid="gselpm" >

<prop type="x-creationproject">p1</prop>

<seg><bpt i="1" type="bold" x="1">&lt;B&gt;</bpt>About GlobalSight:<ept i="1">&lt;/B&gt;</ept></seg>

</tuv>

<tuv xml:lang="FR-FR" creationdate="20111216T130931Z" creationid="gselpm" >

<prop type="x-creationproject">p1</prop>

<seg><bpt i="1" type="bold" x="1">&lt;B&gt;</bpt>Sur GlobalSight:<ept i="1">&lt;/B&gt;</ept></seg>

</tuv>

</tu>

**Return Message Sample:**

A “success” message.

## restfulServices/1.0/companies/{companyID}/tms/{tmId}/tus/{ids} (DELETE)

**Overview**: Delete TU(s) by TU ids.

**REST Method**: DELETE

**Method Access:** public

**Path Parameters:**

companyID: current company ID.

tmId: TM ID.

ids: tu ids comma-separated, i.e "12,14,15" or "12,14-20,34". Required.

**Query Parameters:**

None.

**Return Message Sample:**

A “Tus are removed successfully.” message.

## restfulServices/1.0/companies/{companyID}/tms/{tmId}/upload (POST)

**Overview**: Upload TM data file.

After upload is finished, use "import" request to import the TM data file into TM. If a file is too large, API allows to upload multiple times.

**REST Method**: POST

**Method Access:** public

**Path Parameters:**

companyID: current company ID.

tmId: TM ID.

**Query Parameters:**

None.

**Input:** TMX file content

**Return Message Sample:**

A “File is uploaded successfully.” message.

## restfulServices/1.0/companies/{companyID}/tms/{tmId}/import (POST)

**Overview**: Import TM data file into TM.

The TM data file is uploaded via "upload" request(s).

**REST Method**: POST

**Method Access:** public

**Path Parameters:**

companyID: current company ID.

tmId: TM ID.

**Query Parameters:**

syncMode: option to import data into TM: {merge, overwrite, discard}. Default "merge". Optional

**Return Message Sample:**

A “success” message.

## restfulServices/1.0/companies/{companyID}/tms/{tmId}/export (GET)

**Overview**: Export TM data.

This will trigger a TM exporting event and return an identify key. Then user can use another API "getTmExportStatus" with this identify key to check the export status.

**REST Method**: GET

**Method Access:** public

**Path Parameters:**

companyID: current company ID.

tmId: TM ID to export.

**Query Parameters:**

Languages: languages to export like "de\_DE,fr\_FR" or "fr\_FR". Optional. If be empty, export all.

p\_startDate: start time in "yyyyMMdd" format, TM data within current day

will be included. Required.

finishDate: finish time in "yyyyMMdd" format, TM data within current

day will be included. Optional. If be empty, apply current time.

projectNames: project names to export like "project\_name\_01, project\_name\_02" or "project\_name\_01". Optional.

exportFormat: export file formats: "GMX" or "TMX1.4b". Required.

exportedFileName: exported file name. Optional. If be empty, use GlobalSight default name like "tm\_export\_n.tmx" or "tm\_export\_n.xml".

**Return Message Sample:**

An identify key in string which is used to check TM export status

and retrieve TM data.

## restfulServices/1.0/companies/{companyID}/tms/{tmId}/export/{identifyKey} (GET)

**Overview**: Check TM export status and return exported TM data by identify key.

**REST Method**: GET

**Method Access:** public

**Path Parameters:**

companyID: current company ID.

tmId: TM ID to export.

identifyKey: identifyKey to help locate where the export file is. Required.

**Query Parameters:**

None.

**Return Message Sample:**

If TM export fails, return “TM export failed” message.

If TM is exporting, return “TM is exporting” message.

If TM export is finished, return the TMX data.

## restfulServices/1.0/companies/{companyID}/tms/{tmIds}/fullTextSearch (GET)

**Overview**: Full text search from specified TMs.

**REST Method**: GET

**Method Access:** public

**Path Parameters:**

companyID: current company ID.

tmIds: tm IDs comma separated. Required.

**Query Parameters:**

searchText: Search text. Required.

sourceLocale: source locale like "en\_US". Required.

targetLocale: target locale like "fr\_FR". Required.

creationStartDate: Tuv creation start date in "yyyyMMdd" format. Optional.

creationFinishDate: Tuv creation finish date in "yyyyMMdd" format. Optional.

modifyStartDate: Tuv modify start date in "yyyyMMdd" format. Optional.

modifyFinishDate: Tuv modify finish date in "yyyyMMdd" format. Optional.

**Return Message Sample:**

Queried TM data in XML.

## restfulServices/1.0/companies/{companyID}/tms/leverage (GET)

**Overview**: Leverage segment.

**REST Method**: GET

**Method Access:** public

**Path Parameters:**

companyID: current company ID.

**Query Parameters:**

tmProfileName: Translation memory profile name. Required.

searchText: Search text. Required.

sourceLocale: source locale like "en\_US". Required.

targetLocale: target locale like "fr\_FR". Optional.

escapeString: Is convert all the escapable characters into their string

(Escaped) equivalents or not, available values: "true" or "false". Optional.

**Return Message Sample:**

Queried TM data in XML.

# Translation Memory Profile APIs

## restfulServices/1.0/companies/{companyID}/tmprofiles/{id} (GET)

**Overview**: Get translation memory profile by ID.

**REST Method**: GET

**Method Access:** public

**Path Parameters:**

companyID: current company ID.

id: translation memory profile ID. Required.

**Query Parameters:**

None

**Return Message Sample:**

Translation memory profile information in JSON. A sample is:

{

"id": 1,

"name": "tmprofile\_1",

"description": "",

"storageTMName": "111",

"referenceTMGrp": [

{

"id": 29,

"referenceTM": "1628"

},

{

"id": 4,

"referenceTM": "131030\_w15OlhConsolidatedPlusNew"

},

{

"id": 28,

"referenceTM": "111"

}

]

}

## restfulServices/1.0/companies/{companyID}/tmprofiles (GET)

**Overview**: Get all translation memory profiles.

**REST Method**: GET

**Method Access:** public

**Path Parameters:**

companyID: current company ID.

**Query Parameters:**

None

**Return Message Sample:**

Translation memory profiles information in JSON.

# Job APIs

## restfulServices/1.0/companies/{companyID}/jobs/getUniqueJobName (GET)

**Overview**: Get unique job name.

**REST Method**: GET

**Method Access:** public

**Path Parameters:**

companyID: current company ID. Required.

**Query Parameters:**

jobName: job name. Required.

**Return Message Sample:**

Unique job name

## restfulServices/1.0/companies/{companyID}/jobs/sourceFiles (POST)

**Overview**: Upload source file.

**REST Method**: POST

**Method Access:** public

**Path Parameters:**

companyID: current company ID. Required.

**Query Parameters:**

jobName: job name. Required.

fileProfileId: file profile id. Required.

**Input:**

Source file content. Required.

**Return Message Sample:**

A “File is uploaded successfully. JobId:{jobId}.” message.

## restfulServices/1.0/companies/{companyID}/jobs/createJob(POST)

**Overview**: Create job

**REST Method**: POST

**Method Access:** public

**Path Parameters:**

companyID: current company ID. Required.

**Query Parameters:**

jobId: job id. Required.

filePaths: String Path of files which are contained in job, split by "|". Required.

fileProfileIds: string ID of file profiles, split by "|". Required.

targetLocales: string target locales which like to be translated, split by"|". Optional.

comment: string job comment. Optional.

attributes: string Attributes used to create job. Optional.

Parameter "attributes" value example:

<attributes>

<attributes xsi:type="fileJobAttributeVo" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<displayName>file\_01</displayName>

<fromSuperCompany>false</fromSuperCompany>

<internalName>file\_01</internalName>

<required>false</required>

<type>file</type>

</attributes>

<attributes xsi:type="textJobAttributeVo" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<displayName>file\_02</displayName>

<fromSuperCompany>false</fromSuperCompany>

<internalName>file\_02</internalName>

<required>false</required>

<type>text</type>

</attributes>

</attributes>

**Return Message Sample:**

A “Create job successfully.” message.

## restfulServices/1.0/companies/{companyID}/jobs/{jobId}/status(GET)

**Overview**: Get job status.

**REST Method**: GET

**Method Access:** public

**Path Parameters:**

companyID: current company ID. Required.

jobId: job id. Required.

**Query Parameters:**

None

**Return Message Sample:**

Return job status for JSON.

## restfulServices/1.0/companies/{companyID}/jobs/{jobIds}/targetFiles (GET)

**Overview**: Get exported files in one zip by job ids.

**REST Method**: GET

**Method Access:** public

**Path Parameters:**

companyID: current company ID. Required.

jobIds: job ids. Required.

**Query Parameters:**

None

**Return Message Sample:**

Return all export files compressed.

## restfulServices/1.0/companies/{companyID}/jobs/sourceFiles/zip (POST)

**Overview**: Upload zip source file.

**REST Method**: POST

**Method Access:** public

**Path Parameters:**

companyID: current company ID. Required.

**Query Parameters:**

jobName: job name. Required.

fileProfileId: file profile id. Required.

**Input:**

Zip source file content. Required.

**Return Message Sample:**

A “File is uploaded successfully. JobId:{jobId}.” message.

## restfulServices/1.0/companies/{companyID}/jobs/createJob/zip(POST)

**Overview**: Create job for zip source file

**REST Method**: POST

**Method Access:** public

**Path Parameters:**

companyID: current company ID. Required.

**Query Parameters:**

jobId: job id. Required.

filePaths: String Path of files which are contained in job, split by",".Example:"test\_zip\_01.zip,test\_zip\_02.rar" Required

fileProfileIds: string ID of file profiles, split by ",". Example:"1001,1002".This file profile id must correspond to the files in a compressed file format.Required.

targetLocales: string target locales which like to be translated, split by",". Example: "fr\_FR,de\_DE" or empty. The target language of all files is the same. Optional.

comment: string job comment. Optional.

attributes: string Attributes used to create job. Optional.

Parameter "attributes" value example:

<attributes>

<attributes xsi:type="fileJobAttributeVo" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<displayName>file\_01</displayName>

<fromSuperCompany>false</fromSuperCompany>

<internalName>file\_01</internalName>

<required>false</required>

<type>file</type>

</attributes>

<attributes xsi:type="textJobAttributeVo" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<displayName>file\_02</displayName>

<fromSuperCompany>false</fromSuperCompany>

<internalName>file\_02</internalName>

<required>false</required>

<type>text</type>

</attributes>

</attributes>

**Return Message Sample:**

A “Create job successfully.” message.

# File Profile APIs

## restfulServices/1.0/companies/{companyID}/fileProfiles/(GET)

**Overview**: Get all of the file profile information

**REST Method**: GET

**Method Access:** public

**Path Parameters:**

companyID: current company ID. Required.

**Query Parameters:**

None

**Return Message Sample:**

Return all file profiles information for JSON.