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**GlobalSight Restful APIs**

Contents

[Description of Restful APIs 3](#_Toc459892409)

[Login API 3](#_Toc459892410)

[restfulServices/login-helper(GET) 3](#_Toc459892411)

[Translation Memory APIs 6](#_Toc459892412)

[restfulServices/1.0/companies/{companyID}/tms (GET) 6](#_Toc459892413)

[restfulServices/1.0/companies/{companyID}/tms/{tmId}/tus (POST) 7](#_Toc459892414)

[restfulServices/1.0/companies/{companyID}/tms/{tmId}/tus/{id} (GET) 8](#_Toc459892415)

[restfulServices/1.0/companies/{companyID}/tms/{tmId}/tus (GET) 8](#_Toc459892416)

[restfulServices/1.0/companies/{companyID}/tms/{tmId}/tus (PUT) 9](#_Toc459892417)

[restfulServices/1.0/companies/{companyID}/tms/{tmId}/tus/{ids} (DELETE) 10](#_Toc459892418)

[restfulServices/1.0/companies/{companyID}/tms/{tmId}/upload (POST) 10](#_Toc459892419)

[restfulServices/1.0/companies/{companyID}/tms/{tmId}/import (POST) 11](#_Toc459892420)

[restfulServices/1.0/companies/{companyID}/tms/{tmId}/export (GET) 11](#_Toc459892421)

[restfulServices/1.0/companies/{companyID}/tms/{tmId}/export/{identifyKey} (GET) 12](#_Toc459892422)

[restfulServices/1.0/companies/{companyID}/tms/{tmIds}/fullTextSearch (GET) 12](#_Toc459892423)

[restfulServices/1.0/companies/{companyID}/tms/leverage (GET) 13](#_Toc459892424)

[Translation Memory Profile APIs 13](#_Toc459892425)

[restfulServices/1.0/companies/{companyID}/tmprofiles/{id} (GET) 13](#_Toc459892426)

[restfulServices/1.0/companies/{companyID}/tmprofiles (GET) 14](#_Toc459892427)

[Job APIs 14](#_Toc459892428)

[restfulServices/1.0/companies/{companyID}/jobs/getUniqueJobName (GET) 15](#_Toc459892429)

[restfulServices/1.0/companies/{companyID}/jobs/sourceFiles (POST) 15](#_Toc459892430)

[restfulServices/1.0/companies/{companyID}/jobs/createJob(POST) 15](#_Toc459892431)

[restfulServices/1.0/companies/{companyID}/jobs/{jobId}/status(GET) 16](#_Toc459892432)

[restfulServices/1.0/companies/{companyID}/jobs/{jobIds}/targetFiles (GET) 17](#_Toc459892433)

[restfulServices/1.0/companies/{companyID}/jobs/sourceFiles/zip (POST) 17](#_Toc459892434)

[restfulServices/1.0/companies/{companyID}/jobs/createJob/zip(POST) 17](#_Toc459892435)

[File Profile APIs 18](#_Toc459892436)

[restfulServices/1.0/companies/{companyID}/fileProfiles/(GET) 18](#_Toc459892437)

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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/login-helper> to get an access token with valid “username” and “password”, also company information such as “companyID” be returned too.

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 subsequent 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 and companyID 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/login-helper](http://hostName:port/globalsight/restfulServices/companies/%7bcompanyName%7d/tms)(GET)

**Overview**: Get an access token and company information for subsequent calls. If logged user is super user, it can return all companies information in current system.

**REST Method**: GET

**Method Access:** public

**Path Parameters:**

None.

**Query Parameters:**

None.

**Return Message Sample:**

{

"companies": [

{

"companyID": 1,

"companyName": "Welocalize"

},

{

"companyID": 1000,

"companyName": "York"

}

],

"accessToken": "x0xrLh4QLza2I2DA1E3KkA==<separator>xAlMOEje5NQ=+\_+Welocalize"

}

**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/login-helper

\*/

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

{

CloseableHttpClient httpClient = getHttpClient();

HttpResponse httpResponse = **null**;

**try**

{

String url = "http://localhost:8080/globalsight/restfulServices/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.

fileProfileIds: file profile ids. 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.