



APIs

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Bulk Load API

Two API calls are required.

Task	Call	URL	Parameters	Response
Submit file	POST	/api/ uploadfiles/ This URL will be moved to tool/UploadFile in future.	hierarchy=[hierarchy] Content-Type: multipart/form-data name='uploadedfile' filename=<filename> the file to upload	{"uploadedfiles": [{"id": "<file_id>",&br/>"name": "<filename>"}]}

The response is HTTP 202

Task	Call	URL	Parameters	Payload
Bulk Load	POST	/api/tool/ BulkLoad/	method= bulkload_spreadsheet hierarchy=[hierarchy]	Examples: <pre>{'bulkload_file': '<filename>', 'execute_immediately': true} OR: {'bulkload_file': '<filename>', 'execute_immediately': false 'execute_date': '2013-06-20', 'execute_time': '12:00:00', 'execute_timezone': '0'}</pre>

The following curl commands illustrate the two steps:

Step 1

```
curl -H 'Authorization: Basic <auth_key>'
      -F uploadedfile="@<file>.xlsx"
      'http://<hostname>/api/uploadfiles/'
```

Step 2

```
curl -H 'Authorization: Basic <auth_key>'
      -H 'Content-Type: application/json'
      -H 'accept: application/json'
      --data-binary '{"bulkload_file": "DEMO.xlsx", "execute_immediately": true}'
      'http://<host>/api/tool/BulkLoad/?hierarchy=[hierarchy]&
      method=bulkload_spreadsheet&
      nowait=true&
      format=json'
```

The response to this call is for example as in the following table.

Response
<pre>{"href": "/api/tool/Transaction/0b340a6f-b658-48bb-ac8c-7562adc5572d", "success": true, "transaction_id": "0b340a6f-b658-48bb-ac8c-7562adc5572d"}</pre>

- If the Bulk Load is to be scheduled, the payload of the second task includes schedule details:
 - *execute_immediately* is set to false
 - *execute_date* is added in the format YYYY-MM-DD
 - *execute_time* is added in the format HH:MM:SS
 - *execute_timezone* is added in the format of a numeric value in minutes relative to UTC. For example, UTC is 0, UTC+2:00 is 120, UTC-1:00 is -60, and so on.
- An entry is also generated in the schedule; that is, an instance is added to the data/Schedule module.

- If the second task payload has *'execute_immediately': true*, a POST is generated to `/api/data/Bulkload/`. The payload includes the uploaded filename and a generated name and time stamp as well as a description, for example:

```
{'filename': '<file>.xlsx', 'description': 'Generated by Bulk Loader
Administration Tools', 'name': 'AnyUser.xlsx -- 2013-05-21
16:47:11.801664 (UTC)'}
```

To inspect the detailed progress and status of the transaction, use the API call from the response above:

```
GET /api/tool/Transaction/[pkid]
```

with parameters:

- `hierarchy=[hierarchy]`
- `format=json`

The response to this GET call is a JSON object that provides details of the transaction, as for example in the truncated snippet:

```
...
  "href": "/api/tool/Transaction/[pkid]
  "log_id": "53a8053ea616540708141f44",
  "message": "data_Countries_bulkloadsheets.xlsx is a valid
  "severity": "info",
  "time": "2014-06-23T10:45:18.029000",
  "transaction_id": "[pkid]"
}
],
"pkid": "[pkid]",
"resource": {},
"rolled_back": "No",
"started_time": "2014-06-23T10:45:17.813000",
"status": "Success",
"sub_transactions": [
  {
    "action": "Execute Resource",
    "detail": "Execute : data_Countries_bulkloadsheets.xlsx -- ...
    "status": "Success",
    "submitted_time": "2014-06-23T10:45:19.567000",
    "transaction": "/api/tool/Transaction/[pkid1]    ..."
  },
  {
    "action": "Create Schedule",
    "detail": "Name:data_Countries_bulkloadsheets.xlsx -- 2014- ...
    "status": "Success",
    "submitted_time": "2014-06-23T10:45:18.912000",
    "transaction": "/api/tool/Transaction/[pkid2]    ..."
  },
  {
    "action": "Create Bulk Load",
    "detail": "Name:data_Countries_bulkloadsheets.xlsx -- 2014-06 ...
    "status": "Success",
    "submitted_time": "2014-06-23T10:45:18.419000",
    "transaction": "/api/tool/Transaction/[pkid3]    ..."
  }
],
"submitted_time": "2014-06-23T10:45:17.794000",
```

The same transaction displays on the GUI.

For long transactions, to retrieve a summary of the status of the transaction, the transaction can be polled, using `poll` in the URL, using the same parameters:

```
GET /api/tool/Transaction/poll/?transactions=[pkid]
```

In this case, there is a shortened response, for example:

```
{"[pkid]":
 {"status": "Processing",
```

```

    "href": "/api/tool/Transaction/0b340a6f-b658-48bb-ac8c-7562adc5572d",
    "description": null}
}

```

HCS Intelligent Loader APIs

The following tables display the HCS Intelligent Loader (HIL) REST APIs and their respective methods and parameters:

- **/setup/configuration/{key}**

Parameter	Description	Value	Method
key		string	GET

- **/setup/configuration**

Parameter	Description	Value	Method
			POST

- **/setup/target/{id}**

Parameter	Description	Value	Method
Id	Identity value to be selected for the target system	int	GET

- **/setup/target**

Parameter	Description	Value	Method
			POST

- **/validaterService/validate/{hierarchy}/{operation}?modelName &mappingTemplate &srcFilename**

Parameter	Description	Value	Method
operation	Selected Operation to be performed like Add,etc	string	GET
hierarchy	Cisco Unified Communications Domain Manager Hierarchy under which the validation runs		
modelName	Name of the model		
srcFileName	Source file Name to be selected for validation		
MappingTemplate	mapping Template that is selected for validation		

- **/validatorService/getFileStatus?fileName &sheetName &modelName &hierarchy**

Parameter	Description	Value	Method
fileName	Name of the File for which Validation status is needed	string	GET
sheet Name	Sheet Name that is passed (Optional parameter)		
modelName	Name of the model		
hierarchy	Cisco Unified Communications Domain Manager Hierarchy under which the File exists		

- **/validatorService/fileData?fileName &sheetName &modelName &hierarchy**

Parameter	Description	Value	Method
fileName	Name of the file to be selected in which sheet exist	string	GET
sheet Name	Sheet Name that is passed as parameter to get its content		
modelName	Name of the model		
hierarchy	Cisco Unified Communications Domain Manager Hierarchy under which the File exists		

- **/validatorService/fileData/{hierarchy}?fileName &sheetName &model**

Parameter	Description	Value	Method
fileName	Name of the file that is to be saved	string	POST
sheet Name	Sheet Name of the File that is passed as parameter		
modelName	Name of the model		
hierarchy	Cisco Unified Communications Domain Manager Hierarchy under which the file should be saved		

- **/Importexport/DownloadFile?model &hierarchy &filename**

Parameter	Description	Value	Method
model	Name of the model	string	GET
filename	Name of the Mapping template file to download		
hierarchy	Cisco Unified Communications Domain Manager Hierarchy to download the file from		

- **/Importexport/UploadFile?selectedModel &selectedHierarchy**

Parameter	Description	Value	Method
selectedModel	Name of the model	string	POST
selectedHierarchy	Cisco Unified Communications Domain Manager Hierarchy to upload the file		

- **/Importexport/CopyFile?Model &Hierarchy &SelectedFileName**

Parameter	Description	Value	Method
model	Name of the model	string	POST
SelectedFileName	Name of the Mapping template		
hierarchy	Cisco Unified Communications Domain Manager Hierarchy to copy the file		

- **/Importexport/RenameFile?Model &Hierarchy &SelectedFileName &NewFileName**

Parameter	Description	Value	Method
Model	Name of the model	string	PUT
Hierarchy	Cisco Unified Communications Domain Manager Hierarchy to rename the file		
SelectedFileName	Name of the mapping template file		
NewFileName	New name of the mapping template file		

- **/mappingtemplate**

Parameter	Description	Value	Method
Model	Name of the model	string	POST

- **/mappingtemplate/listTemplates?selected &model &hierarchy**

Parameter	Description	Value	Method
Model	Name of the model	string	GET
Hierarchy	Cisco Unified Communications Domain Manager Hierarchy from where file is to be displayed		
Selected	Name of the mapping template file		

- **/mappingtemplate/listTemplates/{id}**

Parameter	Description	Value	Method
Model	Name of the model	string	GET
Hierarchy	Cisco Unified Communications Domain Manager Hierarchy from where file is to be displayed		
Selected	Name of the mapping template file		

- **/Importexport/DownloadFile?model &hierarchy &filename**

Parameter	Description	Value	Method
Model	Name of the model	string	GET
Hierarchy	Cisco Unified Communications Domain Manager Hierarchy to download the file from		
Selected	Name of the mapping template file		

- **/Importexport/UploadFile?selectedModel &selectedHierarchy**

Parameter	Description	Value	Method
selectedModel	Name of the model	string	POST
selectedHierarchy	Cisco Unified Communications Domain Manager Hierarchy to upload the file		

- **/Importexport/CopyFile?Model &Hierarchy &SelectedFileName**

Parameter	Description	Value	Method
Model	Name of the model	string	POST
Hierarchy	Cisco Unified Communications Domain Manager Hierarchy to copy the file		
SelectedFileName	Name of the mapping template file		

- **/Importexport/RenameFile?Model &Hierarchy &SelectedFileName &NewFileName**

Parameter	Description	Value	Method
Model	Name of the model	string	PUT
Hierarchy	Cisco Unified Communications Domain Manager Hierarchy to rename the file		
SelectedFileName	Name of the mapping template file		
NewFileName	New name of the mapping template file		

- **/LoaderService/DeleteFile?Model &Hierarchy &SelectedFileName**

Parameter	Description	Value	Method
Model	Name of the model	string	DELETE
Hierarchy	Cisco Unified Communications Domain Manager Hierarchy to delete the file from		
SelectedFileName	Name of the uploaded file to delete		

- **/LoaderService/DownloadFile?model&hierarchy&filename**

Parameter	Description	Value	Method
Model	Name of the model	string	GET
Hierarchy	Cisco Unified Communications Domain Manager Hierarchy to download the file from		
SelectedFileName	Name of the uploaded file to download		

- **/LoaderService/UploadFile**

Parameter	Description	Value	Method
		string	POST

- /LoaderService/ExportFile?Model &Hierarchy &FileName &MappingTemplate

Parameter	Description	Value	Method
Model	Name of the model	string	GET
Hierarchy	Cisco Unified Communications Domain Manager Hierarchy to export the file from		
FileName	Name of the file to export from Cisco Unified Communications Domain Manager		
MappingTemplate	Name of the Mapping template to export		

- /LoaderService/listworksheets/{hierarchy}?model &templateID &filename

Parameter	Description	Value	Method
hierarchy	Cisco Unified Communications Domain Manager Hierarchy to list out worksheets of the file from	string	POST
model	Name of the model	string	GET
templateID	Name of the mapping template to list work sheet		
fileName	Name of the uploaded file to get lists of work sheets		

- /LoaderService/listworksheets/{hierarchy}?model &templateID &filename

Parameter	Description	Value	Method
hierarchy	Cisco Unified Communications Domain Manager Hierarchy to list out worksheets of the file from	string	POST
model	Name of the model	string	GET
templateID	Name of the mapping template to list work sheet		
fileName	Name of the uploaded file to get lists of work sheets		

- /LoaderService/CopyFile?Model &Hierarchy &SelectedFileName

Parameter	Description	Value	Method
model	Name of the model	string	POST
Hierarchy	Cisco Unified Communications Domain Manager Hierarchy to copy the file from		
SelectedFileName	Name of the uploaded file to make a copy		

- /LoaderService/RenameFile?Model &Hierarchy &SelectedFileName &NewFileName

Parameter	Description	Value	Method
Model	Name of the model	string	PUT
Hierarchy	Cisco Unified Communications Domain Manager Hierarchy to rename the file from		
SelectedFileName	Name of the the uploaded file to rename		
MappingTemplate	Name of the new file name to rename		

- /LoaderService/ExportFile?Model &Hierarchy &FileName &MappingTemplate

Parameter	Description	Value	Method
Model	Name of the model	string	GET
Hierarchy	Cisco Unified Communications Domain Manager Hierarchy to export the file from		
FileName	Name of the file to export from Cisco Unified Communications Domain Manager		
MappingTemplate	Name of the Mapping template to export		

- /LoaderService/listworksheets/{hierarchy}?model &templateID &filename
- /LoaderService/CopyFile?Model &Hierarchy &SelectedFileName
- /LoaderService/RenameFile?Model &Hierarchy &SelectedFileName &NewFileName
- /LoaderService/loader/{hierarchy}/{operation}?modelName&mappingTemplate &srcFileName

Parameter	Description	Value	Method
Operation	Mode of operation Add/Edit/Delete	string	GET
Hierarchy	Cisco Unified Communications Domain Manager Hierarchy to load the file from		

Parameter	Description	Value	Method
modelName	Name of the model	string	POST
srcFileName	Name of the uploaded file to load into Cisco Unified Communications Domain Manager		
MappingTemplate	Name of the Mapping template file to load		

- /LoaderService/listFiles?model &hierarchy

Parameter	Description	Value	Method
Model	Name of the model	string	GET
Hierarchy	Cisco Unified Communications Domain Manager Hierarchy to load the file from		

- /targetResources/query?model_name &onlyFieldNames &hierarchy

Parameter	Description	Value	Method
model_name		string	GET
hierarchy			
onlyFieldNames		boolean	

- /upload

- /commonresources

- /commonresources/hierarchy/{id}

Parameter	Description	Value	Method
Id	Identity value, by default 1	int Default: 1	GET
Hierarchy	Cisco Unified Communications Domain Manager Hierarchy to load the file from		

- /commonresources/login

- /commonresources/menu/{id}

Parameter	Description	Value	Method
Id	Identity value, by default 1	int	GET
Hierarchy	Cisco Unified Communications Domain Manager Hierarchy to load the file from	Default: 1	

- **/commonresources/issession**
- **/commonresources/hillogout**
- **/commonresources/logout**
- **//commonresources//userinfo**