



**ASFALIS TransServer**  
***Web API Manual for ATS Customization (For  
Developers)***

August 2020  
Elysium Co. Ltd.

# Index

1. Web API for ATS Customization (For Developers) .....	1
1.1. Summary .....	1
1.2. System Requirement .....	2
2. How to Use Web API .....	3
2.1. Server Configuration .....	3
2.2. Common Configurations in Using Web API .....	3
2.3. Logging into Web API .....	4
2.4. How to Use Web API except for Login and Logout .....	5
2.5. Logging out from Web API .....	7
2.6. Execution Result of Web API .....	7
3. Parameter of Web API .....	14
3.1. Log in (/login/authenticate) .....	14
3.2. Register Operations (/batch/job_lot_register) .....	15
3.3. Update Operations (/batch/job_lot_update) .....	21
3.4. Submit Jobs (batch/job_entry) .....	28
3.5. Acquire Job Status (/batch/job_state) .....	40
3.6. Download Jobs (/batch/job_download) .....	42
3.7. Download Jobs (Direct) (/batch/job_download_direct) .....	45
3.8. Cancel Jobs (/batch/job_stop) .....	50
3.9. Upload Files (/batch/upload) .....	51
3.10. Register File Sets (/batch/file_set_register) .....	59
3.11. Acquire Information of File Format (/batch/mime_type_info) .....	64
3.12. Download Operation Properties(/batch/job_lot_attributes_download) .....	67
3.13. Direct-download Attributes of File Type Operations (/batch/job_lot_attributes_download_direct)	69
3.14. Acquire User Information (/batch/users) .....	71
3.15. Obtaining the Group Information (/batch/groups) .....	73
3.16. Log out (/logout) .....	74
4. Sample Programs .....	75
4.1. License and Disclaimer .....	75
4.2. EntryAndDownload .....	75

# 1. Web API for ATS Customization (For Developers)

Elysium provides ASFALIS TransServer Web API (hereafter "Web API") to support the customization of ASFALIS TransServer.

## 1.1. Summary

Web API includes functions below.

Menu	URL	Description of the Function
Log in	/login/authenticate	This is to log in to ASFALIS TransServer.
Register Operations	/batch/job_lot_register	This is to register operations, operation properties and the permission for operations.
Update Operations	/batch/job_lot_update	This is to update operation names, operation properties and the permission for operations.
Submit Jobs	/batch/job_entry	This is to register jobs. This is also to set parameters for the translations.
Acquire Job Status	/batch/job_state	This is to obtain the Job status of specified Jobs. Please note that Job status of all the Jobs which were entered by the currently-logged-in user will be displayed.
Download Jobs	/batch/job_download	This is to download Job outputs (translation result files, intermediate files etc.) and log files from the ASFALIS TransServer file server.
Download Jobs (Direct)	/batch/job_download_direct	This is to download Job outputs (translation result files, intermediate files etc.) and log files directly from ASFALIS TransServer via HTTP.
Cancel Jobs	/batch/job_stop	This is to terminate the Jobs which is currently in the progress or in the queue (have not been executed yet).
Upload Files	/batch/upload	This is to upload files to register as a file set.

Menu	URL	Description of the Function
Register File Sets	/batch/file_set_register	This is to register the file sets.
Acquire Information of File Format	/batch/mime_type_info	This is to obtain the information of the file format of input files of the specified Scenarios or Jobs.
Log out	/logout	This is to log out from ASFALIS TransServer.

## 1.2. System Requirement

It requires the following license to utilize Web API.

- ASF-API/S

## 2. How to Use Web API

### 2.1. Server Configuration

Please specify the IP address of the computer from which you will use Web API in the parameter below. [Administration] > [Server configurations] > [batch.client.address] in ASFALIS TransServer.

### 2.2. Common Configurations in Using Web API

- For HTTP requests, please set HTTP header below.  
X-ASFALIS-TRANSSERVER-BATCH: TRUE
- For HTTP requests except for login, please add the authentication information by either of the followings;
  - Session information and Authenticity token
  - Access token
    - When using the session information and the authenticity token, please send the session information set in "Set-Cookie" field at login as Cookie.  
Key name of the session information: `_K2Dashboard_session`
    - When using the access token, you can use Web API except for login and logout only as the User who the used access token corresponds to. Please specify an access token (string value) generated in "User Edit" page with the parameter "access\_token" when sending a request.  
EX) Please refer to "2.4, [“How to Use Web API except for Login and Logout”](#)" for an example.
    - Please note that the authentication with access token is not available for [\[anchor3-9\]](#). Please use the session information and the authenticity token instead.
- For HTTP requests, please set Content-Type below, and send parameter specified in JSON format.  
Content-Type: application/json; charset=utf-8
- HTTP responses from Web API will be returned in JSON format.

## 2.3. Logging into Web API

Send account information to login of Web API (/login/authenticate). In the request, please set parameters below.

- Login name
- Password

Once the authentication has been succeeded, authenticity token will be generated, and the session information of Cookie will be set.

EX) Login(POST /login/authenticate)

- Request

```
X-ASFALIS-TRANSSERVER-BATCH: TRUE
Content-Type: application/json; charset=utf-8

{
  "login_name": "admin",
  "password": "admin"
}
```

- Response

```
Set-Cookie: _K2Dashboard_session=***** (Session information)
Content-Type: application/json

{
  "result_code": "0000",
  "authenticity_token": "*****" (Authenticity token)
}
```

## 2.4. How to Use Web API except for Login and Logout

Send requests with the following information to the Web API which you wish to use.

- Either session information and authenticity token, or access token
  - Please note that the authentication with access token is not available for [\[anchor3-9\]](#).
- Parameter of the Web API which you wish to use

Please refer to "3 Parameter of Web API" in this document for the detail on parameters specific to each Web API.

EX) How to obtain the Job status(POST /batch/job\_state)

- Request
  - When using the session information and the authenticity token

```
X-ASFALIS-TRANSSERVER-BATCH: TRUE
Cookie: _K2Dashboard_session=***** (Session information)
Content-Type: application/json; charset=utf-8

{
  "job_id": 1,
  "authenticity_token": "*****"(Authenticity token)
}
```

- When using the access token

```
X-ASFALIS-TRANSSERVER-BATCH: TRUE
Content-Type: application/json; charset=utf-8

{
  "job_id": 1,
  "access_token": "*****"(Access token)
}
```

- Response

Content-Type: application/json

```
{
  "result_code": "0000",
  "jobs": [
    {
      "status": 3,
      "input_filename": "SAMPLE1.x_t",
      "created_at": "2012-10-04 10:50:00Z",
      "licence_busy": false,
      "id": 1
    }
  ]
}
```



## 2.5. Logging out from Web API

Send the following request to log out (/logout) from the Web API.

- Authenticity token

EX) Logout(POST /logout)

- Request

```
X-ASFALIS-TRANSSERVER-BATCH: TRUE
Cookie: _K2Dashboard_session=***** (Session information)
Content-Type: application/json; charset=utf-8

{
  "authenticity_token": "*****" (Authenticity token)
}
```

- Response

```
Content-Type: application/json

{
  "result_code": "0000",
}
```

## 2.6. Execution Result of Web API

Below are the summary of the result codes of Web API.

3000s : Common for batch function  
 4000s : Common for ASFALIS TransServer  
 4100s : ASFALIS TransServer - JobLotRegister  
 4200s : ASFALIS TransServer - JobEntry  
 4300s : ASFALIS TransServer - JobState  
 4400s : ASFALIS TransServer - JobDownload  
 4500s : ASFALIS TransServer - JobStop

Result Code	Description	Notes
0000	Successfully completed	
0001	Invalid command option	There is some missing information for mandatory fields, or the value is specified in an invalid format.

Result Code	Description	Notes
0002	File error (Target doesn't exist, something is unusual in the file, and so on.)	Error in target file to upload or XML file.
0003	Remote file error (Target doesn't exist, something is unusual in the file, and so on.)	File error in the target file to download.
0004	Error in file transfer	
0005	Error in creating a directory for file transfer	Fail to create a sub directory to upload/download under the Windows shared directory.
0007	Specified User does not exist. User/Group cannot be found.	
0008	Specified Job pattern ID does not exist. Scenario cannot be found.	
0009	License error	There is no valid license on API.
0011	Job cannot be found.	
0012	".ini" file cannot be found.	There is some missing information for mandatory parameters in ".ini" file. "job.ini" file cannot be found, or there is some missing information for mandatory fields, or the value is specified in an invalid format.
0013	Specified Job is in the progress. There is no Component available for download.	There is no Component that Job status is "finished."
0014	The specified Job or Job set has already been completed.	
0024	Permission error on Job pattern.	
0028	Error in the input file name. Prohibited characters are included.	Error when the name includes characters restricted by "system.filename.invalid_pattern" in the [Server Configuration].
0999	Other unexpected error.	
3001	Error in XML certification	Format of XML file is invalid.

Result Code	Description	Notes
3002	Invalid request information	There is some missing information for mandatory fields, or the value is specified in an invalid format.
3003	Error in the input file name. Prohibited characters are included.	Error when the name includes characters or names that cannot be used in Windows.
3004	Error in translating the character code	
3005	Error in connecting to the server	Requested server cannot be found.
3006	Server communication timeout.	
3007	Server communication error	
3008	Error in creating a local directory	
3009	Error in reading XML schema read	The XML schema definition file for XML verification cannot be found, defined parameter is not valid, or other IO exceptions.
3501	Error in starting the following command	Failed to start command by using shell (cmd.exe), or executable file doesn't exist at the specified path.
3502	Error in processing following command	There occurred something unexpected while processing a command.
3503	Standard error output in following command	Output to standard error exists after finished a command.
4001	Invalid request	There is some missing information for mandatory fields, or the value is specified in an invalid format including the max length and so on.
4002	File error (Target doesn't exist, something is unusual in the file, and so on.)	Error in target file to upload or XML file.
4003	Remote file error (Target doesn't exist, something is unusual in the file, and so on.)	File error in the target file to download.
4004	File transfer error	

Result Code	Description	Notes
4005	Error in creating a directory for file transfer	Fail to create a sub directory to upload/download under the Windows shared directory.
4006	Wrong login name or password.	
4007	Invalid login User	
4008	Invalid session.	
4009	Windows shared directory to upload input files is not registered yet.	Insufficient parameter for ServerConfiguration. Insufficient parameter for FileServer.
4010	Windows shared directory to download output files is not registered yet.	Insufficient parameter for ServerConfiguration. Insufficient parameter for FileServer.
4011	Permission error (permission for the User/Group)	[JobLotRegister] No permission to give operation permission to User/Group. (Read, PermitDownload) [Common] Execution required to be done by User belonging UserAdmins.
4012	Permission error (permission for the Operation)	[JobEntry] Cannot submit a Job into an Operation. (Edit/Delete) Cannot refer to the Job configuration. (Read) [JobState] Cannot refer to the Job status. (Read) [JobDownload] Cannot download the output file of a Job. (Download) Cannot download log file of a Job. (Edit/Delete) Cannot download intermediate file of a Job. (Edit/Delete) [JobStop] Cannot terminate a Job. (Edit/Delete) [Common] A User who doesn't belong to JobAdmins group specifies a deleted Job.

Result Code	Description	Notes
4013	Permission error (permission for the Scenario)	[JobEntry] Cannot use a Scenario to submit a Job.
4014	Permission error (permission for the Operation type)	[JobLotRegister] No permission to create an Operation from an Operation type.
4017	Operation cannot be found.	
4018	Operation type cannot be found.	
4019	File server cannot be found.	
4020	Error in translating the character code	There is some characters which cannot be used to the directory name of Windows in the absolute path of a target file to download.
4021	Access from IP address which is not allowed.	When received a request from an IP address which is not defined as "batch.client.address" in the [server configuration].
4022	Hard limit reached on the storage free space	The remaining free storage space is below the size specified at [Server Configuration] with "system.resource.hard_limit.size" for the volume where the resource folder is, or "system.shared_directory.hard_limit.size" for the volume where the shared folder is.
4101	Operation type which creating Operations is prohibited (Default).	
4102	Operation property definition cannot be found.	
4103	Choices for operation property definition cannot be found.	
4104	Editing Operation property definition is not allowed.	
4109	Operation name is duplicate.	
4110	Operation identifier is duplicate.	

Result Code	Description	Notes
4111	Constraint violation in Operation property.	
4201	A Scenario that cannot be used in the specified Operation.	
4202	Component cannot be found.	
4203	Component parameter cannot be found.	
4204	Choices of Component parameter cannot be found.	
4205	Editing Component parameter is not allowed.	
4206	Constraint violation in Component parameter.	
4207	Input file format error.	<p>The file format of the input file which the Scenario is expected to receive does not match with the file format of the Job which is actually submitted. The input file is not specified for a Scenario which requires the input file.</p> <p>The input file is specified for a Scenario which does not require the input file.</p>
4208	Error on the input file format error (file server)	ZIP file on the file server is specified as the input file.
4209	Error on the call back after registration of a Job	No reply to a request from specified callback URL after registering a Job.
4210	The file set cannot be found.	File set of specified file set ID cannot be found.
4211	Certification code for file set ID doesn't match.	The specified certification code does not match the certification code of a file set.

Result Code	Description	Notes
4300	Exceeds the upper limit of the number of the Jobs to obtain the Job status.	When the Job ID is not specified in "JobState" request, the Job status will be output on the Jobs registered by the login User. This is the error that the number of the Jobs registered by the login User exceeds the upper limit of the number of ASFALIS TransServer.
4402	There is no file to download.	The Job status is "successfully completed," but there is no downloadable file.
4403	The file has already been deleted.	The Job status is "successfully completed," and the file to download is defined. But the actual file has been deleted.
4410	Though JobDownload has succeeded, output file(s) are not found in "DOWNDIR".	This may be because the value specified with "DOWNDIR" in "job.ini" does not match the directory specified in ASFALIS TransServer settings.
4502	The specified Job has already been deleted.	When the Job was executed by a User who belongs to JobAdmins group Permission error (permission for an Operation) for other cases than above.
4601	Operation property cannot be found.	The pair of specified Operation ID and the property key is wrong.
4602	Operation property is not the file type.	
4999	Server error.	

## 3. Parameter of Web API

Below are the requests and response parameters for each Web API.

### 3.1. Log in (/login/authenticate)

- Request

Layer	Physical Name	Description	Type	Mandatory
1	login_name	This is to specify the login name of login user.	string	YES
1	password	This is to specify the password of login user.	string	YES

- Response

Layer	Physical Name	Description	Type	Mandatory
1	result_code	This returns the execution result code. (Please refer to the "Result Code Table" in "Batch Manual.")	string	YES
1	authenticity_token	This will return the result code only when the process is completed successfully. This must be sent as the input parameter to use other Web API for update.	string	*1

\*1: This will be set when the process is completed successfully.



## 3.2. Register Operations (/batch/job\_lot\_register)

- Request

Layer	Node Name	Description	Type	Mandatory
1	authenticity_token	This is to specify the Authenticity token returned at login interface.	string	YES
1	job_lot_template	-	object	YES
2	id	This is to specify the Operation Type ID which will be used for the operations.	int	YES
1	job_lot	-	object	YES
2	name	This is to specify the operation names. Write in object with locale name for the key, and name for the value to specify Operation name in each language. If the value is specified as string, it will be registered as the name in the language that is most prioritized in ASFALIS TransServer.	string / object	YES
2	unique_alias	This is to specify operation unique alias. It will cause an error when there already exists an operation which has the same alias. ASFALIS TransServer will give a unique alias automatically when nothing is specified. Set "TRUE" for "system.use_job_lots_unique_alias" from [Server Configurations] to use this parameter.	string	-
1	job_lot_properties	When nothing is specified, the information on the operation property will be used.	array of object	-
2	-	-	object	-
3	key_name	This is to specify the key name of the definition of operation properties which will be used for the operation properties.	string	YES
3	value_type	When a "password" is specified, values set for this operation property will be displayed as "***" in operation log of ASFALIS TransServer for the security reason.	string	-

Layer	Node Name	Description	Type	Mandatory
3	value	<p>This is to specify the value for the operation property. Specify no value for this section to use the values specified in operation property definition. Leave this section blank to specify null value.</p> <p>Below are the types available as property value.</p> <ul style="list-style-type: none"> <li>• Number</li> <li>• Text</li> <li>• Password</li> <li>• Text area</li> <li>• Boolean</li> <li>• Sub window</li> <li>• Radio button: An error occurs if you specify the value which is not in the options.</li> <li>• Pull down: An error occurs if you specify the value which is not in the options.</li> <li>• Date: Specify by YYYY-MM-DD hh:mm:ss. Specify 0:00 AM (UTC, so please adjust considering the time difference, for example, 0:00 UTC is 9:00 JST) for the time. EX) Specifying May 1, 2014 from a computer which time zone is JST Specify "2014-05-01 09:00:00" for "0:00 May 1, 2014 (UTC)."</li> <li>• Date and Time: Specify by YYYY-MM-DD hh:mm:ss. The time should be specified with UTC.</li> </ul>	string	*1

Layer	Node Name	Description	Type	Mandatory
		<ul style="list-style-type: none"> <li>File: Specify the relative path from the file server specified in batch.upload.file_server. An error occurs if the file cannot be found. The original file remains in the shared directory after uploading it to ASFALIS TransServer.</li> </ul> <p>EX): When &lt;\\machine\path&gt; is specified as batch.upload.file_server, and "file.txt" is specified as the value for File, it indicates \\machine\path\file.txt.</p>		
1	job_lot_permissions	<p>This is to give Edit/Delete permissions on the Operation specified above to specified User(s).</p> <p>Please note that this is effective only when Server Configurations &gt; "system.permissions.object_permissions.enabled" is set to "TRUE", and permissions will be automatically given to the login User and JobAdmins as well.</p> <p>When Server Configurations &gt; "system.permissions.object_permissions.enabled" is set to "FALSE", this value will be ignored, but permissions will be still given to the login User, JobAdmins, and NamedUsers.</p>	array of object	-
2	-	-	object	-
3	permission_code	<p>This is to specify the category code of permission for the new operation.</p> <p>1: Read 2: Download 3: Edit/Delete</p>	int	YES
3	login_name	This is to specify the login name of the user to give additional permission.	array of string	-
3	group_id	This is to specify the group ID of the group to give additional permission.	array of int	-
3	group_internal_name	This is to specify the group unique alias (unique_alias) of the group to give additional permission.	array of string	-

\*1: It is handled the same when no value is specified and when null value is specified.

- Response

Layer	Node Name	Description	Type	Mandatory
1	result_code	Please refer to "Result Code Table" in "Batch Manual."	string	YES
1	job_lot	-	object	*1
2	id	This returns the ID of the registered operation.	int	YES
2	unique_alias	This returns the unique alias of the registered operation. Specified character string will be returned when a unique alias is specified by the input parameter. The character string given automatically by ASFALIS TransServer will be returned when a unique alias is not specified by the input parameter.	string	YES

\*1: This will be set when the process is completed successfully.

- EX) 1

- Request

To create an Operation named "ExampleOperation" with Operation ID=2, and then give a permission to download to users named "user1" and "user2."

```
{
  "authenticity_token": "*****",
  "job_lot_template":
    {
      "id": 2
    },
  "job_lot":
    {
      "name": "ExampleOperation"
    },
  "job_lot_permissions":
    [
      {
        "login_name": ["user1", "user2"],
        "permission_code": 2
      }
    ]
}
```

- Response

```
{
  "job_lot":
  {
    "unique_alias": "joblot_2",
    "id": 3
  },
  "result_code": "0000"
}
```

- EX) 2

- Request

To create an Operation named "サンプル" in Japanese, and "Sample" in English with Operation ID=3

```
{
  "authenticity_token": "*****",
  "job_lot_template":
  {
    "id": 3
  },
  "job_lot":
  {
    "name": {
      "ja-JP": "サンプル",
      "en-US": "Sample"
    }
  }
}
```

- Response

```
{
  "job_lot":
  {
    "unique_alias": "joblot_1_20160810_110130",
    "id": 8
  },
  "result_code": "0000"
}
```

### 3.3. Update Operations (/batch/job\_lot\_update)

- Request

Layer	Node Name	Description	Type	Mandatory
1	authenticity_token	This is to specify the Authenticity token which was returned by login I/F.	string	YES
1	job_lot	-	object	YES
2	job_lot_id	This is to specify the operation ID of the operation to update.	int	YES
2	name	This is to specify the operation names. Write in object with locale name for the key, and name for the value to specify Operation name in each language. If the value is specified as string, it will be registered as the name in the language that is most prioritized in ASFALIS TransServer. (Leave this section blank to keep the current value.)	string / object	-
2	unique_alias	This is to specify the unique alias for each operation. It causes an error when the unique alias is already used for an existing Operation. (Leave this section blank to keep the current value.) Set "TRUE" for "system.use_job_lots_unique_alias" from [Server Configurations] to use this parameter.	string	-
2	is_erased	Specify whether to disable the specified Operation by "true" or "false". The Operation will be restored when set to "false".	boolean	-
1	job_lot_properties	This is to specify the operation property to update. Leave this section blank to keep the current value.	array of object	-
2	-	-	object	-
3	key_name	This is to specify the key name of the definition of operation properties which will be used for the operation properties.	string	YES

Layer	Node Name	Description	Type	Mandatory
3	value_type	When a "password" is specified, values set for this operation property will be displayed as "***" in operation log of ASFALIS TransServer for the security reason.	string	-
3	value	<p>This is to specify the value for the operation properties. Specify no value for this section to use the values specified in operation property definition. Leave this section blank to specify null value.</p> <p>Below are the types available as property value.</p> <ul style="list-style-type: none"> <li>• Number</li> <li>• Text</li> <li>• Password</li> <li>• Text area</li> <li>• Boolean</li> <li>• Sub window</li> <li>• Radio button: An error occurs if you specify the value which is not in the options.</li> <li>• Pull down: An error occurs if you specify the value which is not in the options.</li> <li>• Date: Specify by YYYY-MM-DD hh:mm:ss. Specify 0:00 AM (UTC, so please adjust considering the time difference, for example, 0:00 UTC is 9:00 JST) for the time. EX) Specifying May 1, 2014 from a computer which time zone is JST Specify "2014-05-01 09:00:00" for "0:00 May 1, 2014 (UTC)."</li> <li>• Date and Time: Specify by YYYY-MM-DD hh:mm:ss. The time should be specified with UTC.</li> </ul>	string	*1



Layer	Node Name	Description	Type	Mandatory
		<ul style="list-style-type: none"> <li>File: Specify the relative path from the file server specified in batch.upload.file_server. An error occurs if the file cannot be found. The original file remains in the shared directory after uploading it to ASFALIS TransServer. EX): When &lt;\\machine\path&gt; is specified as batch.upload.file_server, and "file.txt" is specified as the value for File, it indicates \\machine\path\file.txt.</li> </ul>		
1	job_lot_permissions	<p>This is to give Edit/Delete permissions on the Operation specified above to specified User(s).</p> <p>Please note that this is effective only when Server Configurations &gt; "system.permissions.object_permissions.enabled" is set to "TRUE", and permissions will be automatically given to the login User and JobAdmins as well.</p> <p>When Server Configurations &gt; "system.permissions.object_permissions.enabled" is set to "FALSE", this value will be ignored, but permissions will be still given to the login User, JobAdmins, and NamedUsers.</p>	array of object	-
2	-	-	object	-
3	permission_code	<p>This is to specify the category code of permission for the new operation.</p> <p>1: Read 2: Download 3: Edit/Delete</p>	int	YES
3	login_name	This is to specify the login name of the user to give additional permission.	array of string	-
3	group_id	This is to specify the group ID of the group to give additional permission.	array of int	-
3	group_internal_name	This is to specify the group unique alias (unique_alias) of the group to give additional permission.	array of string	-

\*1: It is handled the same when no value is specified and when null value is specified.

- Response

Layer	Node Name	Description	Type	Mandatory
1	result_code	Please refer to "Result Code Table" in "Batch Manual."	string	YES
1	job_lot	-	object	*1
2	id	This returns the operation ID of the registered operation.	int	YES
2	unique_alias	This returns the unique alias of the registered operation. Specified character string will be returned when a unique alias is specified by the input parameter. The character string given automatically by ASFALIS TransServer will be returned when a unique alias is not specified by the input parameter.	string	YES

\*1: This will be set when the process is completed successfully.

- Ex) 1

- Request

To create an operation with Operation Type ID=2 and name "ExampleOperation," and then give a permission to download to users named "user1" and "user2."

```
{
  "authenticity_token": "*****",
  "job_lot":
    {
      "job_lot_id": 1
    },
  "job_lot_properties":
    [
      {
        "key_name": "text_property",
        "value": "abc"
      },
      {
        "key_name": "file_property",
        "value": "file.txt"
      }
    ]
}
```

- Response

```
{
  "job_lot":
    {
      "unique_alias": "joblot_1",
      "id": 1
    },
  "result_code": "0000"
}
```

- Ex) 2

- Request

To update the name of an existing Operation with Operation Type ID=8 to "更新済み" in Japanese, and "Updated" in English.

```
{
  "authenticity_token": "*****",
  "job_lot": {
    "job_lot_id": 8
    "name": {
      "ja-JP": "更新済み",
      "en-US": " Updated "
    }
  }
}
```

- Response

```
{
  "job_lot": {
    {
      "unique_alias": "joblot_1_20160810_110130",
      "id": 8
    },
    "result_code": "0000"
  }
}
```

### 3.4. Submit Jobs (batch/job\_entry)

- Request

Layer	Node Name	Description	Type	Mandatory
1	authenticity_token	This is to specify the Authenticity token which was issued by login I/F.	string	YES
1	file_type	This is to specify the file type. 0: Part 1: Assy	int	-
1	file_server_id	This is to specify the file server ID registered in ASFALIS TransServer, either from FTP server or Windows file server.	int	*1a
1	file_server_dir	This is to specify the directory in the file server specified by the file server ID where the input file is placed by the relative path.	string	*1a
1	via_updir	This is to specify whether to use the Windows file server registered in ASFALIS TransServer to upload the input files. Specify "true" to use the Windows file server registered in ASFALIS TransServer.	boolean	*1b
1	input_files	This is to specify the input files.	array of object	*2a
2	-		object	YES
3	input_file_path	Specify the input file by the filename when the file server ID is specified. Specify the input file by the relative path from the Windows shared directory when "true" is specified for "vir_updir."	string	YES
3	top_assy	Specify "true" to the file to use as the top assembly when the 1:Assy is specified for "translation type."	boolean	-
1	input_file_sets	This is to specify the input file sets.	array of object	*2b
2	-	-	object	YES
3	file_set_id	This is to specify the file set ID of the model to upload.	int	YES

Layer	Node Name	Description	Type	Mandatory
3	embedded_code	This is to specify the verification code of file set ID of the input model.	string	YES
1	input_file_sets_list	This is to specify the list of input file sets.	array of array of object	*2c
2	-	-	array of object	YES
3	-	-	object	YES
4	file_set_id	This is to specify the file set ID of the input model.	int	YES
4	embedded_code	This is to specify the verification code of file set ID of the input model.	string	YES
4	component_instance_name	This is to specify the component instance name where (which process in the Scenario) the input file should be used. "Component instance name" is the identifier (characters) displayed in light gray in "scenario edit" page or "job detail" page. EX): parasolid2enf	string	*3
4	input_key	This defines which input file goes to which component in the combination with "embedded_code" and "component_instance_name" above. Specify the Key which IO Type is "in." You can check the input parameters in "Component Detail" page on ASFALIS TransServer.	string	*3
1	job_lot_id	This is to specify the operation ID where to enter the Job to.	Int	YES
1	src_job_id	This is to specify the Job ID to reuse a parameter configuration of an existence Job.	int	*4a
1	scenario_id	This is to specify the Scenario ID to create a new component parameter configuration.	int	*4b

Layer	Node Name	Description	Type	Mandatory
1	components	Default value will be used in case that the Scenario ID is specified, but nothing is specified for this parameter.	array of object	-
2	-	-	object	-
3	name	This is to specify the unique identifier of the component used in the Scenario.	string	YES
3	parameters	-	array of object	-
4	-	-	object	-
5	key_name	This is to specify the key name which identifies the parameters for components.	string	YES
5	value_type	When a "password" is specified, values set for this operation property will be displayed as "***" in operation log of ASFALIS TransServer for the security reason.	string	-
5	file_server_id	This is to specify the file server ID registered in ASFALIS TransServer, either from FTP server or Windows file server.	int	
5	directory_path	This is to specify the directory in the file server specified by the file server ID where the input file is placed by the relative path.	string	



Layer	Node Name	Description	Type	Mandatory
5	value	number: Set directly. text: Set directly. password: Set directly. textarea: Set directly. radiobutton: Set from option value. boolean: True:1, False:0 bitflag: Connect ON(1) and OFF(0) of each flag. file: Specify UNC path of the file on the Windows shared directory. user: Specify login name. combobox: Set from option value or set directly. pulldown: Set from option value. ftp_param: File server ID: relative path cifs_param: File server ID: relative path (Ex) 1:test  In case of multiple value parameter, this section must not be set.	string	-
5	multiple_values	-	array of string (object)	-
6	-	number: Set directly. text: Set directly. user: Specify login name. file: Specify UNC path of the file on the Windows shared directory. file_with_key: Specify object with nodes below.	string (object)	YES
7	key_name	Specify key (Only for file_with_key type parameter.)	string	YES
7	file_path	Specify UNC path of the file on the Windows shared directory (Only for file_with_key type parameter.)	string	YES
3	sub_components	In case of Scenario ID is specified and this parameter is omitted, default value of each parameter in the Scenario is used.	array of object	-
4	-	-	object	-

Layer	Node Name	Description	Type	Mandatory
5	name	Specify unique identifier set to the sub component selected in the Scenario.	string	YES
5	parameters	-	array of object	-
6	-	-	object	-
7	key_name	This is to specify the key name which identifies parameters for sub components	string	YES
7	file_server_id	This is to specify the file server ID registered in ASFALIS TransServer, either from FTP server or Windows file server.	int	
7	directory_path	This is to specify the directory in the file server specified by the file server ID where the input file is placed by the relative path.	string	
7	value	number: Set directly. text: Set directly. password: Set directly. textarea: Set directly. radiobutton: Set from option value. boolean: True:1, False:0 bitflag: Connect ON(1) and OFF(0) of each flag. file: Specify UNC path of the file on the Windows shared directory. user: Specify login name. combobox: Set from option value or set directly. pulldown: Set from option value. ftp_param: File server ID: relative path cifs_param: File server ID: relative path  In case of multiple value parameter, this section must not be set.	string	-
7	multiple_values	-	array of object	-
8	-	-	object	-

Layer	Node Name	Description	Type	Mandatory
9	value	number: Set directly. text: Set directly. user: Specify login name. file: Specify UNC path of the file on the Windows shared directory.	string	YES
1	job_option	If omitted, registered by default value of each parameter.	object	-
2	priority	This is to specify the priority level of the Job from the 4 levels below. 1: Low 2: Middle 3: High 4: Max Please note that "1: Low" will be applied when nothing is specified for this section.	int	-
2	is_nightly	This is to specify whether to limit the time period of the day to run submitted Jobs to nighttime only. 1: Run during the nighttime only 0: Run anytime once ready Please note that "0: Run anytime once ready" will be applied when nothing is specified for this section.	boolean	-
2	description	This is to specify the descriptions for Jobs. When no value is specified for this parameter, it will be regarded as null value and nothing will be written for the Job description.	string	-

- It is mandatory to specify either all the sections marked with \*1a or the section marked with \*1b unless the Scenario requires no input files.
- It is mandatory to specify either all the sections marked with \*2a or the section marked with \*2b unless the Scenario requires no input files.
- It is mandatory to specify the section marked with \*3 if the Component has two or more input parameters.
- It is mandatory to specify either all the sections marked with \*4a or the section marked with \*4b.
- Response

Layer	Node Name	Description	Type	Mandatory
1	result_code	Please refer to the "Result Code Table" in "Batch Manual."	string	YES
1	jobs	-	array of object	*1
2	-	-	object	YES
3	id	This returns the Job ID of the registered Job.	int	YES
3	unique_alias	This returns the Job identifier that ASFALIS TransServer numbered automatically. Format: "job_\${JobID}_\${Job register datetime:YYYYMMDD_hhmmss}"	string	YES
		The sequence number will be added as below in case the identifier has been used before. Format: "job_\${JobID}_\${Job register datetime:YYYYMMDD_hhmmss}_\${sequence number}")		

\*1: This will be set when the process is completed successfully.

- EX) 1

- Request

To enter a Job to Operation ID=3 using a Scenario ID=2, and specifying a file named "asm1.igs" in "JobEntry" directory of the external file server ID=6.

```
{
  "authenticity_token": "*****",
  "file_server_id": 6,
  "file_server_dir": "JobEntry",
  "input_files":
  [
    {
      "input_file_path": "asm1.igs",
    }
  ],
  "job_lot_id": 3,
  "scenario_id": 2
}
```

- Response

```
{
  "result_code": "0000",
  "jobs":
  [
    {
      "unique_alias": "job_3_20121116_111320",
      "id": 3
    }
  ]
}
```

- EX) 2

- Request

To enter a Job with parameters for "parameterfile\_list" in "enfeditor".

To specify the files in external file server set for "batch.upload.file\_server":

- "sample.xml", and set its key as "extract\_option"
- "sample.txt", and set its key as "sample"

```
{
  "authenticity_token": "*****",
  "file_type": 0,
  "via_updir": true,
  "input_files": [
    {
      "input_file_path": "sample.igs"
    }
  ],
  "components": [
    {
      "key_name": "parameterfile_list",
      "value_type": "file_with_key",
      "multiple_values": [
        {
          "key_name": "extract_option",
          "file_path": "sample.xml"
        },
        {
          "key_name": "sample",
          "file_path": "sample.txt"
        }
      ]
    }
  ],
  "job_lot_id": 2,
  "scenario_id": 4
}
```

- Response

```
{
  "result_code": "0000",
  "jobs":
  [
    {
      "id": 6,
      "unique_alias": "job_6_20161202_162107"
    },
    {
      "id": 7,
      "unique_alias": "job_7_20161202_162108"
    }
  ]
}
```

- EX) 3

- **Request**

To enter two jobs using the same Scenario (Operation ID=2 and Scenario ID=1) at a time:

- One takes the file set ID=10 as the input for IGES Import component and the file set ID=11 as the input for Creo Parametric Import component
- The other takes the file set ID=20 as the input for IGES Import component and the file set ID=21 as the input for Creo Parametric Import component

```
{
  "authenticity_token": "*****",
  "scenario_id": 1,
  "job_lot_id": 2,
  "input_file_sets_list":
  [
    [
      {
        "file_set_id": 10,
        "embedded_code": "*****",
        "component_instance_name": "iges2enf",
        "input_key": "inputfile"
      },
      {
        "file_set_id": 11,
        "embedded_code": "*****",
        "component_instance_name": "proe2enf",
        "input_key": "inputfile"
      }
    ],
    [
      {
        "file_set_id": 20,
        "embedded_code": "*****",
        "component_instance_name": "iges2enf",
        "input_key": "inputfile"
      },
      {
        "file_set_id": 21,
        "embedded_code": "*****",
        "component_instance_name": "proe2enf",
        "input_key": "inputfile"
      }
    ]
  ]
}
```



- Response

```
{
  "result_code": "0000",
  "jobs":
  [
    {
      "id": 4,
      "unique_alias": "job_91_20140108_162107"
    },
    {
      "id": 5,
      "unique_alias": "job_92_20140108_162108"
    }
  ]
}
```

### 3.5. Acquire Job Status (/batch/job\_state)

- Request

Layer	Node Name	Description	Type	Mandatory
1	authenticity_token	This is to specify the Authenticity token which was issued by login I/F.	string	YES
1	job_id	This is to specify a Job to obtain the status of by its Job ID. Jobs submitted by the login User will be regarded as the target when this is not specified.	int	-
1	job_id_list	This is to specify Jobs to obtain the status of by their Job IDs in array. Jobs submitted by the login User will be regarded as the target when this is not specified.	array of int	-

- Response

Layer	Node Name	Description	Type	Mandatory
1	result_code	Please refer to "Result Code Table" in "Batch Manual."	string	YES
1	jobs	-	array of object	*1
2	-	-	(object)	-
3	id	This is to specify the Job ID.	int	YES
3	created_at	This shows the date and the time when that Job was entered in the format below. Format: YYYY-MM-DD hh:mm:ssZ Please note that the time will be displayed with UTC, not the time on your computer.	string	YES
3	input_filename	This shows the filename of the input files used for that Job. This will be left as blank in case the Scenario used for that Job required no input files.	string	YES

Layer	Node Name	Description	Type	Mandatory
3	status	This shows the status of the Job. 1: Backlog 2: Processing 3: Succeeded 4: Abend 5: Terminated	int	YES

\*1: This will be set when the process is completed successfully.

EX) Please refer to the examples in "2.4 How to Use Web API Except for Login and Logout" in this manual.

## 3.6. Download Jobs (/batch/job\_download)

- Request

Layer	Node Name	Description	Type	Mandatory
1	authenticity_token	This is to specify the Authenticity token which was issued by login I/F.	string	YES
1	job_id	This is to specify the Job ID of the Job to download.	int	YES
1	download_dir	This is to specify the path to the folder where the downloaded files from ASFALIS TransServer will be saved. Specify by the relative path from Windows shared directory (Path of the external file server specified at batch.download.file_server in server configuration) that is shared between batch and ASFALIS TransServer.	string	YES
1	job_output_flg	This is to specify whether to download the Job outputs (translation result files etc.) that are specified in the Scenario as the output files of the Job. Specify "true" to include in the download.	boolean	*1
1	log_flg	This is to specify whether to download the log files of the Job. Specify "true" to include in the download.	boolean	*1
1	component_output_flg	This is to specify whether to download the Job outputs (intermediate files etc.), that are not specified in the Scenario as the output files of the Job. Specify "true" to include in the download.	boolean	*1
1	child_job_output_flg	This is to specify whether to download the Job outputs (translation result files etc.) of child Jobs that are specified in the Scenario as the output files of the Job. Specify "true" to include in the download. This is effective only when the specified Job has child Job(s).	boolean	*1

Layer	Node Name	Description	Type	Mandatory
1	child_job_log_flg	This is to specify whether to download the log files of child Job(s). Specify "true" to include in the download. This is effective only when the specified Job has child Job(s).	boolean	*1
1	child_job_component_output_flg	This is to specify whether to download Job outputs (intermediate files etc.) of child Job(s), that are not specified in the Scenario as the output files of the Job. Specify "true" to include in the download. This is effective only when the specified Job has child Job(s).	boolean	*1

\*1: At least one parameter needs to be specified.

- Response

Layer	Node Name	Description	Type	Mandatory
1	result_code	Please refer to "Result Code Table" in "Batch Manual."	string	YES
1	top_file_info_list	Specify the top assembly of the output file.	array of object	YES
2	-	-	object	-
3	path	Specify the file path to the top assembly file by a relative path from the directory specified with "download_dir".	string	YES
3	top_file	Specify the filename of the top assembly file.	string	YES
1	zip_flg	(Customized situation only) This returns "true" when ZIP is specified at download customize server as the format of the file to download.	boolean	-
1	zip_file_name	(Customized situation only) This returns the zip file name specified by the download customize server.	string	-

- EX) 1

- Request

To download the output files of Job ID=3 to JobDownload directory.

```
{
  "authenticity_token": "*****",
  "job_id": 3,
  "download_dir": "JobDownload",
  "job_output_flg": true
}
```

- Response

```
{
  "result_code": "0000",
  "zip_flg": false,
  "zip_file_name": null
}
```

- EX) 2

- Request

To download the output files of Job ID=109 to JobDownload directory.

```
{
  "authenticity_token": "*****",
  "job_id": 109,
  "download_dir": "JobDownload",
  "job_output_flg": true
}
```

- Response

```
{
  "zip_flg": false,
  "zip_file_name": nil,
  "result_code": "0000",
  "top_file_info_list":
  [
    {
      "path": "J109_sample/C2_enf2nx/OUTPUT",
      "top_file": "sample.prt"
    }
  ]
}
```

## 3.7. Download Jobs (Direct)

### (/batch/job\_download\_direct)

- Request

Layer	Node Name	Description	Type	Mandatory
1	authenticity_token	This is to specify the Authenticity token which was issued by login I/F.	string	YES
1	job_id	This is to specify the Job ID of the Job to download.	int	YES
1	job_output_flg	This is to specify whether to download the Job outputs (translation result files etc.) that are specified in the Scenario as the output files of the Job. Specify "true" to include in the download.	boolean	*1
1	log_flg	This is to specify whether to download the log files of the Job. Specify "true" to include in the download.	boolean	*1
1	component_output_flg	This is to specify whether to download the Job outputs (intermediate files etc.), that are not specified in the Scenario as the output files of the Job. Specify "true" to include in the download.	boolean	*1
1	child_job_output_flg	This is to specify whether to download the Job outputs (translation result files etc.) of child Jobs that are specified in the Scenario as the output files of the Job. Specify "true" to include in the download. This is effective only when the specified Job has child Job(s).	boolean	*1
1	child_job_log_flg	This is to specify whether to download the log files of child Job(s). Specify "true" to include in the download. This is effective only when the specified Job has child Job(s).	boolean	*1

Layer	Node Name	Description	Type	Mandatory
1	child_job_component_output_flg	This is to specify whether to download Job outputs (intermediate files etc.) of child Job(s), that are not specified in the Scenario as the output files of the Job. Specify "true" to include in the download. This is effective only when the specified Job has child Job(s).	boolean	*1

\*1: At least one parameter needs to be specified.

- Response (Success) returns HTTP status code 200
  - Returns a single output file (as is) when the result is a single file
  - Returns a zip archive which includes all result files when the result consists of multiple files
  - In accordance with RFC6266, the filename of a download file will be sent as byte strings in percent encoded UTF-8 in the value of Content-Disposition field of HTTP response header.
- Response (Failure) returns HTTP status code 404

Layer	Node Name	Description	Type	Mandatory
1	result_code	Please refer to "Result Code Table" in "Batch Manual."	string	YES



- EX) 1

- Request

To download only a single output file of Job ID=3.

```
GET http:// (Server name):(Port number)/batch/job_download_direct HTTP/1.1
X-ASFALIS-TRANSSERVER-BATCH: TRUE
Cookie: _K2Dashboard_session=***** (Session information)
Host: (Server name):(Port number)
Content-Type: application/json; charset=utf-8
Connection: Keep-Alive

{
  "authenticity_token": "*****",
  "job_id": 3,
  "job_output_flg": true
}
```

- Response

```
HTTP/1.1 200 OK
Date: Wed, 19 Oct 2016 09:00:00 GMT
Server: nginx/1.2.9
Content-Type: text/plain; charset=utf-8
Content-Length: 1024
Content-Disposition: attachment;
filename="sample.stp";
filename*=utf-8''sample.stp

(File Data: 1024 bytes)
```

- EX) 2

- Request

To download the output files, log files and component files of Job ID=3.

```
GET http:// (Server name):(Port number)/batch/job_download_direct HTTP/1.1
X-ASFALIS-TRANSSERVER-BATCH: TRUE
Cookie: _K2Dashboard_session=***** (Session information)
Host: (Server name):(Port number)
Content-Type: application/json; charset=utf-8
Connection: Keep-Alive

{
  "authenticity_token": "*****",
  "job_id": 3,
  "job_output_flg": true,
  "log_flg": true,
  "component_output_flg": true
}
```

- Response

```
HTTP/1.1 200 OK
Date: Wed, 19 Oct 2016 09:00:00 GMT
Server: nginx/1.2.9
Content-Type: application/zip
Content-Length: 4096
Content-Disposition: attachment;
filename="J3_sample.zip";
filename*=utf-8''J3_sample.zip

(File Data: 4096 bytes)
```

- EX) 3
  - Request

Tried to download the output file of Job ID=4 but failed.

```
GET http:// (Server name):(Port number)/batch/job_download_direct HTTP/1.1
X-ASFALIS-TRANSSERVER-BATCH: TRUE
Cookie: _K2Dashboard_session=***** (Session information)
Host: (Server name):(Port number)
Content-Type: application/json; charset=utf-8
Connection: Keep-Alive

{
  "authenticity_token": "*****",
  "job_id": 4,
  "job_output_flg": true
}
```

- Response

```
HTTP/1.1 404 NOT FOUND
Date: Wed, 19 Oct 2016 09:00:00 GMT
Server: nginx/1.2.9
Content-Type: application/json; charset=utf-8

{
  "result_code": "4403"
}
```

## 3.8. Cancel Jobs (/batch/job\_stop)

- Request

Layer	Node Name	Description	Type	Mandatory
1	authenticity_token	This is to specify the Authenticity token which was issued by login I/F.	string	YES
1	job_id	This is to specify the Job ID of the Job to cancel.	int	YES

- Response

Layer	Node Name	Description	Type	Mandatory
1	result_code	Please refer to "Result Code Table" in "Batch Manual."	string	YES

- EX)

- Request

To cancel the Job with Job ID=4.

```
{
  "authenticity_token": "*****",
  "job_id": 4
}
```

### 3.9. Upload Files (/batch/upload)

- Please note that the authentication with access token is not available for file upload (/batch/upload). Please use the session information and the authenticity token instead.

- Request

To upload files by sending a "multipart/form-data" type request by POST, set the header and the body as follows.

- Header

The string "boundary" in the "Content-Type" section is the separator for the data to send. Please ensure that the string used as a separator is consistent within a request, and does not conflict with strings used in the data set to upload.

Specify the same ID string for "X-ASFALIS-TRANSSERVER-UPLOAD-REQUEST-ID" among requests that handles the same file.

In case of chunked file upload, also specify the byte range of the upload file with "Content-Range".

- Bulk Upload

```
X-ASFALIS-TRANSSERVER-BATCH: TRUE
X-ASFALIS-TRANSSERVER-UPLOAD-REQUEST-ID: *** (Unique string per file)
Content-Disposition: attachment; filename="*** (Filename)"
Content-Type: multipart/form-data; boundary=***
X-CSRF-Token: *** (Authenticity token)
Cookie: _K2Dashboard_session=*** (Session information)
```

- Chunked Upload

```
X-ASFALIS-TRANSSERVER-BATCH: TRUE
X-ASFALIS-TRANSSERVER-UPLOAD-REQUEST-ID: *** (Unique string per file)
Content-Disposition: attachment; filename="*** (Filename)"
Content-Type: multipart/form-data; boundary=***
Content-Range: bytes ***-***/** (Byte range of index N to M / Total byte count) (*1)
X-CSRF-Token: *** (Authenticity token)
Cookie: _K2Dashboard_session=*** (Session information)
```

\*1: The request will be divided into three when sending a file of 2050 bytes by a block of 1000 bytes. Therefore, specify "0-999/2050", "1000-1999/2050" and "2000-2049/2050" respectively for "Content-Range".

- Body

Specify 'name="upload"' within "Content-Disposition" section. File upload is accepted with the parameter name "upload" only.

```
--*** (String for the boundary)
Content-Disposition: form-data; name="upload"; filename="*** (Filename)"
Content-Type: application/octet-stream
(Line separator)
*** (File content)
--*** (String for the boundary)--
```

- Response

- When the chunk upload is in progress;

```
{
  "result_code": "0000",
  "status": "continue_partial_upload",
  "message": ""
}
```

- When the bulk / chunk upload is complete;

- In case of a single file

"id" under "upload\_files" array is a temporary file ID assigned when the file upload is complete.

```
{
  "result_code": "0000",
  "status": "success",
  "message": "",
  "upload_files": [
    {
      "id": "4349186a-77a9-4113-9c32-30d74799c684",
      "size": 2050,
      "filename": "Sample.igs",
      "state": "success"
    }
  ]
}
```

- In case of a ZIP file
  - "id" under "upload\_files" array is a temporary file ID assigned when the file upload is complete.
  - "id" under "entries" array is a temporary file ID for each file in the ZIP file, and it is associated with the ZIP file with "derivation\_id", so that you can register all files in the ZIP file as a file set using the file ID assigned to the ZIP file.

```
{
  "result_code": "0000",
  "status": "success",
  "message": "",
  "upload_files": [
    {
      "id": "86c0fa0e-5409-40b9-9521-9e7a6a41abd3",
      "size": 36276,
      "filename": "Assembly.zip",
      "state": "success",
      "entries": [
        {
          "id": "fae7be51-8915-49a2-8def-9b435862ab98",
          "derivation_id": "86c0fa0e-5409-40b9-9521-9e7a6a41abd3",
          "size": "54100",
          "filename": "part1.CATPart"
        },
        {
          "id": "d564303a-5a87-43ce-b206-caf13d57b2de",
          "derivation_id": "86c0fa0e-5409-40b9-9521-9e7a6a41abd3",
          "size": "56040",
          "filename": "part2.CATPart"
        },
        {
          "id": "eb78d8f7-81ab-41aa-ac89-aa7f24bbeb82",
          "derivation_id": "86c0fa0e-5409-40b9-9521-9e7a6a41abd3",
          "size": "16505",
          "filename": "Assembly.CATProduct"
        }
      ]
    }
  ]
}
```

+

- EX) 1

- **Request**

Request to chunk-upload a file by a block of 1000 bytes.

- Header

```
// First request
X-ASFALIS-TRANSSERVER-BATCH: TRUE
X-ASFALIS-TRANSSERVER-UPLOAD-REQUEST-ID: bf437123-b190-4cce-9785-ab128ac3c6f2
Content-Disposition: attachment; filename="Cone.igs"
Content-Type: multipart/form-data; boundary=Rl62qocH
Content-Range: bytes 0-999/2050
X-CSRF-Token: *** (Authenticity token)
Cookie: _K2Dashboard_session=*** (Session information)

// Second request
X-ASFALIS-TRANSSERVER-BATCH: TRUE
X-ASFALIS-TRANSSERVER-UPLOAD-REQUEST-ID: bf437123-b190-4cce-9785-ab128ac3c6f2
Content-Disposition: attachment; filename="Cone.igs"
Content-Type: multipart/form-data; boundary=FgPcMaDD
Content-Range: bytes 1000-1999/2050
X-CSRF-Token: *** (Authenticity token)
Cookie: _K2Dashboard_session=*** (Session information)

// Third request
X-ASFALIS-TRANSSERVER-BATCH: TRUE
X-ASFALIS-TRANSSERVER-UPLOAD-REQUEST-ID: bf437123-b190-4cce-9785-ab128ac3c6f2
Content-Disposition: attachment; filename="Cone.igs"
Content-Type: multipart/form-data; boundary=0hwiogqW
Content-Range: bytes 2000-2049/2050
X-CSRF-Token: *** (Authenticity token)
Cookie: _K2Dashboard_session=*** (Session information)
```



- Body

```
// First request
--Rl62qocH
Content-Disposition: form-data; name="upload"; filename="Cone.igs"
Content-Type: application/octet-stream

*** (File content)
--Rl62qocH--

// Second request
--FgPcMaDD
Content-Disposition: form-data; name="upload"; filename="Cone.igs"
Content-Type: application/octet-stream

*** (File content)
--FgPcMaDD--

// Third request
--0hwiogqW
Content-Disposition: form-data; name="upload"; filename="Cone.igs"
Content-Type: application/octet-stream

*** (File content)
--0hwiogqW--
```

- **Response**

File upload divided into three requests is complete, and the temporary file ID "4349186a-77a9-4113-9c32-30d74799c684" is available for use.

```
// First response
{
  "result_code": "0000",
  "status": "continue_partial_upload",
  "message": ""
}

// Second response
{
  "result_code": "0000",
  "status": "continue_partial_upload",
  "message": ""
}

// Third response
{
  "result_code": "0000",
  "status": "success",
  "message": "",
  "upload_files": [
    {
      "id": "4349186a-77a9-4113-9c32-30d74799c684",
      "size": 2050,
      "filename": "Sample.igs",
      "state": "success"
    }
  ]
}
```

- EX) 2

- **Request**

Request to bulk-upload a ZIP file.

- Header

```
X-ASFALIS-TRANSSERVER-BATCH: TRUE
X-ASFALIS-TRANSSERVER-UPLOAD-REQUEST-ID: 2d09f4ea-3f3a-4d4d-ab35-
5f6bb590d728
Content-Disposition: attachment; filename="wheelset.zip"
Content-Type: multipart/form-data; boundary=Yv0C7zjh
X-CSRF-Token: *** (Authenticity token)
Cookie: _K2Dashboard_session=*** (Session information)
```

- Body

```
--Yv0C7zjh
Content-Disposition: form-data; name="upload"; filename="wheelset.zip"
Content-Type: application/octet-stream

*** (File content)
--Yv0C7zjh--
```

- **Response**

File upload is complete, and the temporary file ID "86c0fa0e-5409-40b9-9521-9e7a6a41abd3" is available for use.

```
{
  "result_code": "0000",
  "status": "success",
  "message": "",
  "upload_files": [
    {
      "id": "86c0fa0e-5409-40b9-9521-9e7a6a41abd3",
      "size": 36276,
      "filename": "wheelset.zip",
      "state": "success",
      "entries": [
        {
          "id": "fae7be51-8915-49a2-8def-9b435862ab98",
          "derivation_id": "86c0fa0e-5409-40b9-9521-9e7a6a41abd3",
          "size": "54100",
          "filename": "bar.CATPart"
        },
        {
          "id": "d564303a-5a87-43ce-b206-caf13d57b2de",
          "derivation_id": "86c0fa0e-5409-40b9-9521-9e7a6a41abd3",
          "size": "56040",
          "filename": "wheel.CATPart"
        },
        {
          "id": "eb78d8f7-81ab-41aa-ac89-aa7f24bbeb82",
          "derivation_id": "86c0fa0e-5409-40b9-9521-9e7a6a41abd3",
          "size": "16505",
          "filename": "wheelset.CATProduct"
        }
      ]
    }
  ]
}
```

## 3.10. Register File Sets (/batch/file\_set\_register)

- Request

Layer	Node Name	Description	Type	Mandatory
1	authenticity_token	This is to specify the Authenticity token which was issued by login I/F.	string	YES
1	mime_type	This is to specify the MIME type of the file set to register.	string	YES
1	Input_file_sets	This is to specify the input file sets.	array of object	YES
2	-	-	object	YES
3	temporary_file_set_id	This is to specify a unique ID between the Web API request and response. This parameter will be used in response to specify the file set.	string	YES
3	file_type	This is to specify the file type. 0: Part 1: Assy	int	-
3	file_server_id	This is to specify the file server ID registered in ASFALIS TransServer, either FTP server or Windows file server.	int	*1a
3	file_server_dir	This is to specify the directory in the file server specified by the file server ID where the input file is placed by the relative path.	string	*1a
3	via_updir	This is to specify whether to use the Windows file server registered in ASFALIS TransServer to upload the input files. Specify "true" to use the Windows file server registered in ASFALIS TransServer.		*1b
3	input_files	This is to specify the input file.	array of object	YES
4	-	-	object	YES

Layer	Node Name	Description	Type	Mandatory
5	input_file_path	Specify the input file by the filename when the file server ID is specified. Specify the input file by the relative path from the Windows shared directory when "true" is specified for "vir_updir."	string	*2a
5	temporary_id	Specify the temporary ID of the file(s) uploaded with "/batch/upload". This is effective even in an environment where the file server has not been registered/specified yet.	string	*2b
5	top_assy	This is to specify the file to regard as the top assembly. Specify "true" to the file to regard as the top assembly file.	boolean	-

- It is mandatory to specify either all the sections marked with \*1a or the one marked with \*1b when specifying the input file(s) with "input\_file\_path".
- \*2: It is mandatory to specify either the section marked with 2a or 2b.

- Response

Layer	Node Name	Description	Type	Mandatory
1	result_code	Please refer to "Result Code Table" in "Batch Manual."	string	YES
1	file_sets	-	array of object	*1
2	-	-	object	YES
3	temporary_file_set_id	This returns the temporary file set ID specified at the Web API request.	string	YES
3	id	This returns the ID of the registered file set.	int	YES
3	embedded_code	This returns the verification code of the file set ID. This is the ID to avoid any falsification on the ID. You will need this code to specify a file set at Job entries.	string	YES

\*1: This will be set when the process is completed successfully.

- EX)

- Request

To register three files registered at the file server ID=1 as a file set.

```
{
  "authenticity_token": "*****",
  "mime_type": "application/nx",
  "input_file_sets":
  [
    {
      "temporary_file_set_id": "1",
      "file_server_id": 1,
      "file_server_dir": "NX/wheel_set",
      "file_type": 1,
      "input_files":
      [
        {
          "input_file_path": "wheel_set.prt",
          "top_assy": true
        },
        {
          "input_file_path": "wheel.prt"
        },
        {
          "input_file_path": "bar.prt"
        }
      ]
    }
  ]
}
```

- Response

They have been registered as a file set ID=5.

```
{
  "file_sets":
  [
    {
      "temporary_file_set_id": "1",
      "id": 5,
      "embedded_code": "*****_***_****_*****_*****"
    }
  ]
  "result_code": "0000"
}
```

## Setting Parameters by a Parameter File at Job Entry

You can overwrite the parameters for the data translation by registering a file set including a file with the file extension "\*.atsparam". This is a file to specify the parameters for the data translation and will be prioritized to the parameters set from the user interface of ATS when creating a Scenario or submitting a Job. So this will be reflected on all the Jobs using that file set. This is ideal for the translations which you need to use different parameters depending on the model, for example, translating simplified representation name of Creo Parametric models.

- This parameter file (\*.atsparam) needs to be written as follows in JSON format.

Layer	Node Name	Description	Type	Mandatory
1	format_version	Specify "1" for this value.	int	YES
1	component_instance_list	-	array of object	YES
2	-	-	object	-
3	name	Specify the component instance name for this value.	string	YES
3	parameter	This is to specify a unique ID between the Web API request and response. This parameter will be used in response to specify the file set.	object	YES
4	Parameter name *1	This is to specify the value for the parameters.	*2	

\*1: Specify the parameter name for each component. Leave this section blank if you wish to keep the current name. Please note that you can overwrite the names only on the parameters you have a permission on.

\*2: The type differs depending on the parameters. Please specify an appropriate type for each parameter.



- EX)

- Request

To register three files registered at the file server ID=1 as a file set.

```
{
  "format_version": 1,
  "component_instance_list":
    [
      {
        "name": "iges2enf",
        "parameter":
          {
            "Stitch": 1,
            "StitchTol": 0.01
          }
      },
      {
        "name": "dek",
        "parameter":
          {
            "HealPartwise": 1
          }
      }
    ]
}
```

## 3.11. Acquire Information of File Format (/batch/mime\_type\_info)

- Request

Layer	Node Name	Description	Type	Mandatory
1	authenticity_token	This is to specify the Authenticity token which was issued by login I/F.	string	YES
1	scenario_id	This is to specify the Scenario which obtains the information on the MIME type of the input files by the Scenario ID.	int	*1
1	job_id	This is to specify the Scenario which obtains the information on the MIME type of the input files by the Job ID.	int	*1

\*1: Specify either "scenario\_id" or "job\_id."

- Response

Layer	Node Name	Description	Type	Mandatory
1	result_code	Please refer to the "Result Code Table" in "Batch Manual."	string	YES
1	accept_input	This returns "true" when the Scenario obtains the input file.	boolean	*1
1	mime_type_list	This returns the name of the MIME type of the input file of the Scenario. EX): application/enf	array of string	*2
1	mime_type	This returns the first item of mime_type_list. *a	string	*2
1	extensions_list	This returns the file extension patterns of this MIME type as extension general expressions. EX): ["enf," "enf_[a-zA-Z0-9]+," "drx_[a-zA-Z0-9]+"] etc.	array of array of string	*2
1	extensions	This returns the first item of the extensions_list. *a	array of string	*2

Layer	Node Name	Description	Type	Mandatory
1	objective_flg_list	This returns "true" when the file format of the input file for the Scenario is non-objective type, and "false" when objective type.	array of boolean	*2
1	objective_flg	This returns the first item of the objective_flg_list. *a	boolean	*2
1	component_instance_name_list	This returns the instance name of the component which takes the input file of the Scenario.	array of string	*3
1	input_key_list	This returns the Key of the input file of the Scenario.	array of string	*3

\*a: This is to preserve the compatibility with the former version ASFALIS TransServer EX5.2.5.

\*1: This will be set when the process is completed successfully.

\*2: This will be set when the "accept\_input" is "true."

\*3: This will be set only when the Scenario takes multiple input files. This value will be used as parameters for Job entries with input\_file\_sets\_list.

- EX)

- Request

Obtaining the MIME type of the input file for the Scenario with Scenario ID=2.

```
{
  "authenticity_token": "*****",
  "scenario_id": 2
}
```

- Response

```
{
  "result_code": "0000",
  "accept_input": true,
  "mime_type_list": ["application/iges"],
  "extensions_list": [
    ["iges", "igs"]
  ],
  "objective_flg_list": [false],
  "mime_type": "application/iges",
  "extensions": ["iges", "igs"],
  "objective_flg": false,
  "component_instance_name_list": ["iges2enf"],
  "input_key_list": ["inputfile"]
}
```

## 3.12. Download Operation Properties (/batch/job\_lot\_attributes\_download)

- Request

Layer	Node Name	Description	Type	Mandatory
1	authenticity_token	This is to specify the Authenticity token which was issued by login I/F.	string	YES
1	job_lot_id	This is to specify the Operation ID of the operation which you wish to download the attribute of.	int	YES
1	download_dir	This is to specify the path to the folder where the downloaded files from ASFALIS TransServer will be saved. Specify by the relative path from Windows shared directory (Path of the external file server specified at batch.download.file_server in server configuration) that is shared between batch and ASFALIS TransServer.	string	YES
1	key_name_list	This is to specify the Key name of the Operation Attribute which value type is "File." An error occurs when the specified Key name does not exist or the value type of specified Key name is not "File."	array of string	YES

- Response

Layer	Node Name	Description	Type	Mandatory
1	result_code	Please refer to the "Result Code Table" in "Batch Manual."	string	YES

- EX)

- Request

To download the Operation Attribute which value type is "File" for the Operation ID=2 and the Key name is file\_type\_attr\_1 and file\_type\_attr\_2.

```
{
  "authenticity_token": "*****",
  "job_lot_id": 2,
  "download_dir": "JobDownload",
  "key_name_list": ["file_type_attr_1", "file_type_attr_2"]
}
```

- Response

```
{
  "result_code": "0000"
}
```

## 3.13. Direct-download Attributes of File Type Operations

### (/batch/job\_lot\_attributes\_download\_direct)

- Request

Layer	Node Name	Description	Type	Mandatory
1	authenticity_token	Specify the authenticity token obtained on the login interface.	string	Yes
1	job_lot_id	Specify the Operation to obtain the attribute of by its Operation ID.	int	Yes
1	key_name_list	Specify attributes of file type Operation to obtain by their attribute keys in array. An error occurs when there is no Operation with the specified key, or the specified Operation is not file type.	array of string	Yes

- Response (Succeeded)

Returns HTTP status code 2000.

- When the output is a single file:  
Returns the file itself.
- When the output consists of multiple files:  
Returns them as a ZIP file
- Filename of the downloaded files will be percent-encoded as UTF8, and sent as a value of "Content-Disposition" field in the HTTP response header in conformity to RFC6266.

- Response (Failed)

Returns HTTP status code 404.

Layer	Node Name	Description	Type	Mandatory
1	result_code	Please refer to "Result Code Table" in "Batch Manual".	string	Yes

- EX)

- **Request**

To download the file type attribute of "file\_type\_attr\_1" key of Operation ID=2.

```
{  
  "authenticity_token": "*****" (Authenticity token),  
  "job_lot_id": 2,  
  "key_name_list": ["file_type_attr_1"]  
}
```

```
GET http://(Server name):(Port  
number)/batch/job_lot_attributes_download_direct HTTP/1.1  
X-ASFALIS-TRANSSERVER-BATCH: TRUE  
Cookie: _K2Dashboard_session=***** (Session information)  
Content-Type: application/json; charset=utf-8  
Connection: Keep-Alive
```

- **Response**

Successfully downloaded.

```
HTTP/1.1 200 OK  
Date: (Date and time) GMT  
Server: nginx/1.12.2  
Content-Type: text/html  
Content-Length: 2048  
Content-Disposition: attachment; filename="sample.data"; filename*=utf-  
8'sample.data  
  
(File Data: 2048 bytes)
```



## 3.14. Acquire User Information (/batch/users)

- Request

Layer	Node Name	Description	Type	Mandatory
1	authenticity_token	This is to specify the Authenticity token which was issued by login I/F.	string	YES
1	user_id_list	This is to specify the User which obtains the information by array of the User IDs.	array of int	*1
1	user_login_name_list	This is to specify the User which obtains the information by array of the User login names.	array of string	*1

- Response

Layer	Node Name	Description	Type	Mandatory
1	result_code	Please refer to the "Result Code Table" in "Batch Manual."	string	YES
1	users	Please refer to the parameters in "Importing Users" in "Manual for Administrator." (The format of password is different from that of references because protection for password works on output.)	array of object	*1

\*1: This will be set when the process is completed successfully.

- EX)

- Request

Obtaining the information of the user of which login name is "sample\_user1."

```
{
  "authenticity_token": "*****",
  "user_login_name_list": ["sample_user1"]
}
```

- Response

```
{
  "result_code": "0000",
  "users": [
    {
      "login_name": "sample_user1",
      "email": "sample_user1@email.com",
      "is_login_enable": true,
      "is_editable_email": true,
      "is_error_mail_recipient": true,
      "is_mail_component_mail_recipient": true,
      "is_all_parameter_open": true,
      "time_zone": "Tokyo",
      "is_enable_ldap": true,
      "ldap_account_name": "sample_user1",
      "external_owner": null,
      "encrypted_password": {
        "password_hash": "d680c8621a8e3d260c37c6c10b4cafe4",
        "password_salt": "lNQ48MgU"
      },
      "name": {
        "en-US": {
          "first_name": "Sample",
          "family_name": "User1",
          "name_format_type": "first_space_family"
        }
      },
      "memo": {
        "en-US": "sample_user1 memo"
      },
      "language_priority": [
        "en-US",
        "ja-JP",
        "de-DE"
      ],
      "character_code": "Shift_JIS"
    }
  ]
}
```

## 3.15. Obtaining the Group Information (/batch/groups)

- Request

Layer	Node Name	Description	Type	Mandatory
1	authenticity_token	This is to specify the Authenticity token which was issued by login I/F.	string	YES
1	group_id_list	This is to specify the Group which obtains the information by array of the Group IDs.	array of int	*1
1	group_unique_aliases_list	This is to specify the Group which obtains the information by array of the Group unique aliases.	array of string	*1

\*1: Specify either "group\_id\_list" or "group\_unique\_aliases\_list."

- Response

Layer	Node Name	Description	Type	Mandatory
1	result_code	Please refer to the "Result Code Table" in "Batch Manual."	string	YES
1	groups	Please refer to the parameters in "Importing Groups" in "Manual for Administrator."	array of object	*1

\*1: This will be set when the process is completed successfully.

- EX)

- Request

Request Obtaining the information of the Group of which unique alias is "sample\_group1."

```
{
  "authenticity_token": "*****",
  "group_unique_aliases_list": ["sample_group1"]
}
```

- Response

```
{
  "result_code": "0000",
  "groups": [
    {
      "unique_alias": "sample_group1",
      "external_owner": null,
      "child_groups": [
        "sample_group1_1",
        "sample_group1_2",
      ],
      "child_groups": [
        "sample_user1"
      ],
      "name": {
        "en-US": "sample_group1"
      },
      "is_root": true
    }
  ]
}
```

## 3.16. Log out (/logout)

- Request

Layer	Node Name	Description	Type	Mandatory
1	authenticity_token	This is to specify the Authenticity token which was issued by login I/F.	string	YES

- Response

Layer	Node Name	Description	Type	Mandatory
1	result_code	This returns the result code which means "normal end."	string	YES

## 4. Sample Programs

ASFALIS TransServer provides sample programs which use Web API for your reference when developing programs at your end. Sample programs are stored in the following folder:

<ASFALIS TransServer installation folder>\k2dashboard\public\samples\web\_api

### 4.1. License and Disclaimer

Please be noted that sample programs mentioned here are for your reference only to show how to use ASFALIS TransServer Web API.

Elysium does not support any use beyond this purpose, and shall not be liable for any damages arising or resulting from such use.

### 4.2. EntryAndDownload

"EntryAndDownload" is a sample program to submit a new Job to ASFALIS TransServer, wait until the submitted Job completes, and then download the result files. This sample program calls the Web API as follows:

1. Log in (/login/authenticate)
2. Register File Sets (/batch/file\_set\_register)
3. Submit Jobs (/batch/job\_entry)
4. Acquire Job Status (/batch/job\_state)  
Called repeatedly until the Job finishes
5. Download Jobs (/batch/job\_download)
6. Log out (/logout)

Sample programs are available in the following languages:

- C#
  - <ASFALIS TransServer installation folder>\k2dashboard\public\samples\web\_api\C#\EntryAndDownload
- JavaScript (Node.js)
  - <ASFALIS TransServer installation folder>\k2dashboard\public\samples\web\_api\JavaScript\EntryAndDownload

All rights reserved by Elysium or the original author of this material. The content may not be edited, reproduced, distributed, transmitted, displayed, published, broadcast, sold or lent without the prior permission of the author.