

Article

« [FME Server](#)
[\(/S/Topic/0TO4Q000000QL9zWAG/Fme-...\)](#)

Submitting a Job through the FME Server REST API

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Product Type

FME Server

FME Version

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Tutorial: [Getting Started with the FME Server REST API](#) (<https://community.safe.com/s/article/Getting-Started-with-the-FME-Server-REST-API>)

Previous: [Authorization in the FME Server REST API | Token Management](#) (<https://community.safe.com/s/article/token-management-in-fme-server>)

| Next: [Using the FME Server REST API to Create Job History Reports](#) (<https://community.safe.com/s/article/Using-the-FME-Server-REST-API-to>Create-Job-History-Reports>).

Introduction

The FME Server REST API allows third-party applications to run jobs on FME Server. By connecting your systems and users over the web, data and information can be exchanged in real-time between otherwise unrelated systems.

All workspaces submitted by REST API use the FME Server [REST Service](#)

(https://docs.safe.com/fme/html/FME_Server_Documentation/DevelopersGuide/service_rest.htm?Highlight=rest%20service). The REST Service allows you to run jobs on FME Server, much like using the [job submitter](#) (https://docs.safe.com/fme/html/FME_Server_Documentation/ReferenceManual/job_submitter_service.htm) service. To use the [Transformation services](#) (https://docs.safe.com/fme/html/FME_Server_Documentation/ReferenceManual/transformation_svcs.html), like data streaming or data download, use a [Webhook URL](#) (<https://community.safe.com/s/article/Submitting-a-Job-through-FME-Server-Webhook-URLs>) instead.

Jobs may be submitted by two different REST API requests: Submit and Transact. These two endpoints represent synchronous and asynchronous requests, respectively. On a practical level, these requests differ in how and when job results are returned. Which you choose will be determined by your specific workflow needs.

The [Transact request](#) (https://docs.safe.com/fme/html/FME_REST/apidoc/v3/index.html#!/transformations/transact_post_32) is synchronous. A synchronous task must be completed before the next task begins. After submitting a synchronous job, the API request is not finished until the job is complete. The translation results are returned in the API response. The Transact request is a good choice for short workflows or when results are required as soon as possible.

The [Submit request](https://docs.safe.com/fme/html/FME_REST/apidoc/v3/index.html#!/transformations/submit_post_31) (https://docs.safe.com/fme/html/FME_REST/apidoc/v3/index.html#!/transformations/submit_post_31) is asynchronous. An asynchronous task does *not* need to be completed before the next task begins. After submitting an asynchronous job, the API request is finished, regardless of the job status. A job ID is returned in the API response. To find out the translation's status or retrieve any results, the job ID can be used in subsequent requests. The Submit request is a good choice for long workflows or when immediate results are not required.

In this tutorial, we'll run a job on FME Server by both Submit and Transact requests. The requests will be built and made from the API development platform, Postman. However, the same requests can be made from any HTTP client, like the HTTPCaller in FME Workbench. Please note: for applications *outside* of your network to submit requests by REST API, please ensure that your FME Server instance is publicly available.

Content Overview

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Requirements

- [FME Server](#) (<https://www.safe.com/fme/fme-server/>).
 - An FME Server API Token with necessary permissions (see [Authorizing Requests](#))
- [Postman](#) (<https://www.postman.com/>).

Step-by-Step Instructions

In this step-by-step tutorial, we will demonstrate submitting both synchronous and asynchronous jobs through the FME Server REST API. We'll use the "austinDownloads.fmw" workspace for both requests. This workspace is included inside the "Samples" repository of every FME Server installation.

Preparation is key to building successful workflows. There are some steps we can take before creating a job request that can help us be successful on the first try.

Review the Workflow Options

Whenever possible, review the workflow or data before building an API request. From the FME Server *Run Workspace* page, select the "Samples" Repository and "austinDownloads.fmw" as the Workspace.

Run Workspace



Samples/austinDownload

Repository: Samples
FME Server Samples Repository

Workspace: austinDownload.fmw

Service: Job Submitter

Email results to:

Published Parameters

Layers to Download: airports

Output Coordinate System: WGS84 datum, Latitude-Longitude; Degrees [EPSG #4326]

Output Format: Esri Shapefile

Minimum X: -100

Minimum Y: 25

Maximum X: -90

Maximum Y: 35

Search Envelope Coordinate System (optional): LL84

Advanced

Run

Published Parameters can be set inside the request body of any REST API job submission. For any workspace, there are a couple of ways to find which parameters are available to use.

From the *Run Workspace* page, scroll to find and expand the *Advanced* section. At the bottom of this section, you will find a table named *Published Parameters*. The *Parameter* column contains each available parameter. The *Option* column lists its accepted inputs. These values can be used with our API job requests.

Published Parameters

Description	Parameter	Type	Value	Default	Options
Layers to Download	THEMES	listbox	airports	airports	airports, cenart, railroad, streetcl
Output Coordinate System	COORDSYS	dropdown	LL84	LL84	EPSG:32614, LL84, TX83-CF

Workspace published parameters may also be fetched by API request. Read more about how to retrieve and submit different types of published parameters in the *Published Parameter Data Model* tab of the [FME Server REST API Documentation](https://docs.safe.com/fme/html/FME_REST/apidoc/v3/index.html#) (https://docs.safe.com/fme/html/FME_REST/apidoc/v3/index.html#).

Published Parameter Data Model

FME Server Documentation

Other Resources

[Overview](#) [API](#) [Migrating From REST API V2](#)

Published Parameter Data Model

The Published Parameter Data Model is a generic data model that describes workspace published parameters and parameters in general in FME Server. This data model is used in the response body from endpoints such as "GET /repositories/< repository >/items/< item >/parameters" to retrieve the published parameters for a workspace.

Documentation

For all your web workflows, the best source of guidance will usually be the API documentation. Visit the [FME Server REST API Documentation](https://docs.safe.com/fme/html/FME_REST/apidoc/v3/index.html) (https://docs.safe.com/fme/html/FME_REST/apidoc/v3/index.html) to get started, follow along with these requests, and explore the many endpoints available to use with FME Server.

Alternatively, you can access REST API documentation personalized to your own FME Server through the *Help* menu. This page allows you to test the listed API requests directly inside the browser.

Authorizing Requests

Just like a user needs to *log into* FME Server before running a workspace, an application needs to *provide identification* before running a job. The FME Server REST API uses tokens to authenticate requests. For any workflow, multiple tokens can be created with permissions to only what they need to complete their request.

This tutorial assumes you already have a token. If you do not already have a token, create one by following our [FME Server REST API Authorization tutorial](https://community.safe.com/s/article/token-management-in-fme-server) (<https://community.safe.com/s/article/token-management-in-fme-server>) or from the [FME Server Token Management page](https://docs.safe.com/fme/html/FME_Server_Documentation/WebUI/Manage-Token.htm). (https://docs.safe.com/fme/html/FME_Server_Documentation/WebUI/Manage-Token.htm).

Part 1: Running a Synchronous Job With Standard Parameters

This section demonstrates the **Transact** request that runs a job **synchronously** on FME Server. A Transact request instructs FME Server to submit the job and only return a response upon the job's completion. This means that you will wait until the translation is complete and the response message contains the job results.

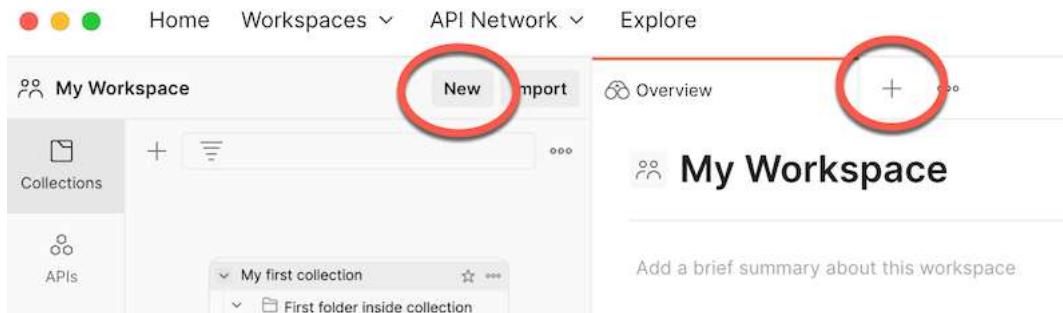
More information about the Transact request can be found under the [Transformations](https://docs.safe.com/fme/html/FME_REST/apidoc/v3/index.html#/transformations/transact_post_23) (https://docs.safe.com/fme/html/FME_REST/apidoc/v3/index.html#/transformations/transact_post_23) section of the FME Server REST API documentation.

The screenshot shows the FME Server REST API Documentation for the Transact request. It includes the method (POST), endpoint (/transformations/transact/<repository>/<workspace>), and a note: "Submit a job to run a transformation (synchronous)". Below this, there is an "Implementation Notes" section with the following text:

Submits a job to run a transformation. The submittal is synchronous, and a response is not returned until the job completes. Each published parameter contains a 'value' attribute that may contain either a list of items or a straightforward text value, depending on the type of published parameter. If published parameters are omitted, default values are provided by the workspace. If any directives are omitted, the server assigns default values.

1. Create a New Request in Postman

In [Postman](https://www.postman.com/) (<https://www.postman.com/>), a new request can be started by selecting **New > HTTP Request** or the plus sign ("+") button above the workspace window.



A **URL** is the calling card of any REST API Request. We can use a URL to target the specific FME Server domain, endpoint, and workspace. Copy this request URL to use with our request:

POST

HTTP://<yourServerHost>/fmerest/v3/transformations/transact/Samples/austinDownload.fmw

Paste the URL into the space provided in Postman. Update <yourServerHost> to your FME Server's domain name.

Oftentimes, workspaces require parameter values to run the translation. The **POST method** allows us to submit these parameters and other data with each request. Using the dropdown menu, change the method from "GET" to "POST".



TIP: To learn more about the building blocks of an API Request and how to send requests from FME Workbench, review [HTTP Requests with the HTTPCaller](#). (<https://community.safe.com/s/article/HTTP-Requests-With-The-HTTPCaller>).

2. Create a Request Body

For every POST request, the **Body** contains data to send to FME Server. The transact request body will contain our workspace published parameters and values in JSON.

Select and copy the following JSON body to use with our request:

```
{
  "publishedParameters": [
    {
      "name": "MAXY",
      "value": "42"
    },
    {
      "name": "THEMES",
      "value": [
        "airports",
        "cenart"
      ]
    }
  ]
}
```

In Postman, select the Body tab below the POST request. Select the *raw* option, change the type to JSON by clicking on the drop-down arrow, then paste the JSON in the space below.

```

1  {
2    "publishedParameters": [
3      {
4        "name": "MAXY",
5        "value": "42"
6      },
7      {
8        "name": "THEMES",
9        "value": [
10          "airports",
11          "cenart"
12        ]
13      }
14    }
15  }

```

Notes on the request JSON: You may notice that our JSON does not specify all the parameters available for austinApartments.fmw. Whenever parameter values are not specified like this, FME Server uses default values. Additionally, the *name* value refers to the workspace User Parameter name, not the label (as you might see from the Run Workspace page).

3. Create Headers

Headers allow us to tell FME Server more information about our API request.

We can start by telling FME Server that our Body content is in JSON format with a “Content-Type” header.

Next, we can ask FME Server to return its response in JSON format with the “Accept” header.

Lastly, with an “Authorization” header, we can supply our unique token value. Replace <yourTOKEN> with your token value. If you do not already have a token, create one by following our [FME Server REST API Authorization tutorial](#) (<https://community.safe.com/s/article/token-management-in-fme-server>) or from the [FME Server Token Management](#) (https://docs.safe.com/fme/html/FME_Server_Documentation/WebUI/Manage-Token.htm) page.

Select the Headers tab in Postman to add these headers and their values to this job request:

Key	Value
Content-Type	application/json
Accept	application/json
Authorization	fmetoken token= <yourTOKEN>

The Headers configuration should resemble the screenshot below. Note that Postman may include other default headers that can be ignored or hidden.

The screenshot shows the 'Headers' tab in Postman with three checked items: Content-Type (application/json), Accept (application/json), and Authorization (fmetoken token= 04168b98ddbfcede410f7a1...). There is also a table below for key-value pairs.

Key	Value	Description

4. Run the Job by Transact REST API Request

In Postman, click Send. Wait 5-10 seconds while FME Server receives the request and submits the job. Upon the translation completion, Postman will display a response message from FME Server.

The response from a Transact request contains information about the completed job: the job id, status, how many features were handled, the time and duration of the request, and any messages. A synchronous request waits until the translation finishes before returning a response, so FME Server can immediately share the job summary.

The screenshot shows the 'Body' tab in Postman with a successful response (200 OK, 3.23 s, 504 B). The response is displayed in JSON format:

```

1  {
2      "timeRequested": "2022-06-06T17:55:59Z",
3      "requesterResultPort": 39405,
4      "numFeaturesOutput": 4812,
5      "requesterHost": "10.0.2.219",
6      "timeStarted": "2022-06-06T17:55:59Z",
7      "id": 4316,
8      "timeFinished": "2022-06-06T17:56:02Z",
9      "priority": -1,
10     "statusMessage": "Translation Successful",
11     "status": "SUCCESS"
12 }

```

5. View the Job in FME Server

Any job requests, including those sent from the REST API, can be viewed from the FME Server Web UI.

Log into FME Server. From the left sidebar, navigate to the *Jobs > Completed* page. Find the recently run austinApartments.fmw job by matching the “id” number returned in the API response message.

The screenshot shows the 'Completed' section of the FME Server Web UI. It lists one job with the following details:

Id	Workspace	Repository	Status	Started	Finished	Engine
4316	austinDownload.fmw	Samples	✓	Today at 11:55:59	Today at 11:56:02	localhost

Note: a job submitted by REST API will be listed as run by the User account that created the authentication token.

6. Review the Job Log

Click on the job to find more details.

An FME Server job log (https://docs.safe.com/fme/html/FME_Server_Documentation/ReferenceManual/About_Log_Files.htm) contains a detailed description of the job translation. Inside, you can review information such as workspace parameters, the number of features read and written, which engine was used, error or warning messages, etc.

At the top of the page, the *COMPLETED* section contains high-level summary information. Expand *Request Data* to see the *PUBLISHED PARAMETERS* sent from our API request. These parameters should align with the JSON values supplied inside our request body:

The screenshot shows the FME Server Jobs page. At the top, there's a navigation bar with 'Jobs > Job #4316'. Below it, a job card for 'austinDownload.fmw' is displayed, with a star icon and the name. The card also says 'City of Austin: Data Download'. Underneath, a large green checkmark indicates the job is 'COMPLETED'. Below this, there are three columns: 'JOB ID' (4316), 'FEATURES WRITTEN' (4812), and 'TIME STARTED'. Further down, there are sections for 'STATUS' (with a dropdown arrow) and 'REQUEST DATA' (with a dropdown arrow). The 'REQUEST DATA' section is expanded to show the 'PUBLISHED PARAMETERS' table. This table has two rows: one for 'MAXY' with value '42', and one for 'THEMES' with value 'airports, cenart'. The entire 'PUBLISHED PARAMETERS' table is enclosed in a red rounded rectangle.

Parameter	Value
MAXY	42
THEMES	airports, cenart

Now, let's modify our Transact request to run another job with different parameters.

7. Send a Transact Request with Different Parameters

Back in Postman, select the *Body* tab. This time, we're going to submit different values to the "THEMES" parameter. Update the value list to contain "railroad" and "streetcl" instead of "airports" and "cenart".

Params Auth Headers (11) **Body** Pre-req. Tests Settings

raw **JSON**

```

1  {
2    "publishedParameters": [
3      {
4        "name": "MAXY",
5        "value": "42"
6      },
7      {
8        "name": "THEMES",
9        "value": [
10          "railroad",
11          "streetcl"
12        ]
13      }
14    ]

```

TIP: Refer to the Introduction section, [Review Workflow Options](#), to locate all the parameter values available to use with this workspace.

Click *Send* to submit the updated request. Wait 5-10 seconds to receive a successful response. Note the job's "id" in the response message.

8. Find the Job in FME Server

In FME Server, navigate back to the *Jobs > Completed* page. Find the last submitted job by the id. Select the job to review the log.

Under *REQUEST DATA*, find the updated parameters.

austinDownload.fmw

City of Austin: Data Download

COMPLETED

JOB ID	FEATURES WRITTEN	TIME STARTED
4318	61870	T

STATUS ▾

REQUEST DATA ▾

PUBLISHED PARAMETERS	
Parameter	Value
MAXY	42
THEMES	railroad, streetcl

Scroll down the log to find the *Features Written Summary* line to review the final output data, as determined by the "THEMES" parameter.

```

208 2022-6-6 14:56:51 | Features Written Summary
209 2022-6-6 14:56:51 | =====
210 2022-6-6 14:56:51 | railroad 610
211 2022-6-6 14:56:51 | streetcl 61260
212 2022-6-6 14:56:51 | =====

```

Congratulations! You've now sent a synchronous job request via the FME Server Transact endpoint. Use this request to run jobs and receive the results in the same request.

Part 2: Running an Asynchronous Job With Standard Parameters

This section demonstrates the **Submit** request that runs a job **asynchronously** on FME Server. A Submit request instructs FME Server to submit the job and return a response immediately, without waiting for the translation to complete. The response message does not contain the job results. This means you will have to make subsequent requests to FME Server to find out the job results.

More information about the Submit request can be found under the [Transformations section](#)

(https://docs.safe.com/fme/html/FME_REST/apidoc/v3/index.html#!/transformations/transact_post_23) of the FME Server REST API documentation.

The screenshot shows a detailed description of the `/transformations/submit/<repository>/<workspace>` endpoint. It includes a green "POST" button, the endpoint URL, and a "Submit a job for transformation (asynchronous)" link. Below this, there's a section titled "Implementation Notes" which describes the asynchronous nature of the job submission and how it returns an ID immediately.

Part 2 assumes that you have already completed [Part 1: Running a Synchronous Job with Standard Parameters](#). For more detail and context for each step, review Part 1.

1. Create a New Request in Postman

In [Postman](https://www.postman.com/) (<https://www.postman.com/>), a new request can be started by selecting **New > HTTP Request** or the plus sign ("+") beside our last request.

Copy this URL to use with our request:

`POST` `HTTP://<yourServerHost>/fmerest/v3/transformations/submit/Samples/austinDownload.fmw`

Paste the URL into the space provided in Postman. Update `<yourServerHost>` to your FME Server's domain name. Using the dropdown menu, change the method from "GET" to "POST".

`POST` `http://<yourServerHost>/fmerest/v3/transformations/submit/Samples/austinDownload.fmw` `Send`

2. Create a Request Body

Select and copy the following JSON body to use with our request:

```
{
  "publishedParameters": [
    {
      "name": "MAXY",
      "value": "42"
    },
    {
      "name": "THEMES",
      "value": [
        "airports",
        "cenart"
      ]
    }
  ]
}
```

In Postman, select the *Body* tab. Select the *raw* option, change the type to JSON by clicking on the drop-down arrow, then paste the JSON in the space below.

The screenshot shows the Postman interface with the 'Body' tab selected. Below it, the 'JSON' dropdown is active. The JSON input field contains the provided code, which is also displayed with line numbers (1-15) on the left. The JSON structure is as follows:

```

1  {
2    "publishedParameters": [
3      {
4        "name": "MAXY",
5        "value": "42"
6      },
7      {
8        "name": "THEMES",
9        "value": [
10          "airports",
11          "cenart"
12        ]
13      }
14    ]
15  }

```

3. Create Headers

Select the Headers tab in Postman to add these headers and their values to this job request:

Key	Value
Content-Type	application/json
Accept	application/json
Authorization	fmetoken token= <yourTOKEN>

The Headers configuration should resemble the screenshot below. Remember to change <yourTOKEN> to your actual token. Note that Postman may include other default headers that can be ignored or hidden.

The screenshot shows the 'Headers' tab in Postman's configuration interface. It lists several key-value pairs under the 'KEY' and 'VALUE' columns. The 'Authorization' header is explicitly defined with the value 'fmetoken token= 04168b98ddbfcde410f7a1...'. Other headers like 'Content-Type' and 'Accept' are also listed. A 'Description' column is present for each row, though it appears mostly empty.

KEY	VALUE	DESCRIPTION	Bulk Edit	Presets
Content-Type	application/json			
Accept	application/json			
Authorization	fmetoken token= 04168b98ddbfcde410f7a1...			
Key	Value	Description		

4. Run the Job by Submit REST API Request

In Postman, click Send. Wait ~5 seconds while FME Server receives the request and submits the job. Immediately after the job is received, Postman will display a response message from FME Server.

The response from a Submit request only contains the job's "id". Because an asynchronous request doesn't wait until the translation finishes, there is no other information to report. However, the job id can be used in subsequent API requests to retrieve the job results and status.

The screenshot shows the 'Body' tab in Postman after sending the request. The response is a simple JSON object with a single key 'id' and the value '4326'. The 'Pretty' and 'Raw' options are visible in the interface.

```

1 {
2   "id": 4326
3 }

```

TIP: Take a moment to compare this response to the Transact (synchronous) response (Part 1, Step 4). How does it differ?

5. View the Job in FME Server

Log into FME Server. From the left sidebar, navigate to the *Jobs > Completed* page.

First, look for the recently run *austinApartments.fmw* job by matching the "id" returned in the API response message. However, since we've submitted an asynchronous request, the translation may still be in progress. If the job is not found on the *Completed* page, look for it on the *Running* or *Queued* pages.

The screenshot shows the 'Jobs > Completed' page in the FME Server interface. A table lists completed jobs. One job, with the ID '4326', is highlighted with a red box. The job details are: Workspace: 'austinDownload.fmw', Status: 'Samples', Started: 'Today at 12:17:38', Finished: 'Today at 12:17:40', and Engine: 'local-host_Engine1'.

Id	Workspace	Repository	Status	Started	Finished	Engine
4326	austinDownload.fmw	Samples	✓	Today at 12:17:38	Today at 12:17:40	local-host_Engine1

Select the job to view the translation log. The parameters used in the Submit API request can be viewed by expanding REQUEST DATA.

Jobs

[Jobs](#) > Job #4326

austinDownload.fmw

City of Austin: Data Download

 COMPLETED

JOB ID 4326

FEATURES WRITTEN 4812

TIME START

STATUS ▾

REQUEST DATA ▾

PUBLISHED PARAMETERS

Parameter	Value
MAXY	42
THEMES	airports, cenart

Scrolling further down the log, we can also view the total number of Features Written and other summary statistics.

185 2022-6-7 12:17:40 | Features Written Summary

186 2022-6-7 12:17:40 | ======

187 2022-6-7 12:17:40 | airports 929

188 2022-6-7 12:17:40 | cenart 3883

189 2022-6-7 12:17:40 | ======

Congratulations! You've now sent an asynchronous job request via the FME Server Submit endpoint. Use this request to run jobs without waiting for the results.

Continue to Step 6 to learn how to retrieve job results with the REST API.

6. Create a new Request in Postman

Now that we have a Job ID, we can use a [Job Id REST API request](#)

(https://docs.safe.com/fme/html/FME_REST/apidoc/v3/index.html#!/transformations/get_get_18) to retrieve our job's status and results.

GET /transformations/jobs/id/<jobid> Retrieve the job record according to the specified ID

Implementation Notes
Given an ID, this retrieves the record for a job, regardless of whether it is queued, running or completed.

Back in Postman, open a new tab. Copy this URL to use with our request:

GET	<a href="http://<yourServerHost>/fmerest/v3/transformations/jobs/id/<JobID>">http://<yourServerHost>/fmerest/v3/transformations/jobs/id/<JobID> <a href="http://<yourServerHost>/fmerest/v3/transformations/jobs/id/<JobID>">(http://<yourServerHost>/fmerest/v3/transformations/jobs/id/<JobID>);
-----	---

Paste the URL into the space provided in Postman. Update <yourServerHost> to your FME Server's domain name. Replace <JobId> with the "id" you received from the response in the previous call.

This time, leave the method as "GET". A **GET method** requests information from FME Server.



7. Create Headers

Select the Headers tab in Postman. We don't need to send any data with GET requests, like when retrieving job information. This eliminates the need for the Content-type Header.

Key	Value
Accept	application/json
Authorization	fmetoken token= <yourTOKEN>

The Headers configuration should resemble the screenshot below. Remember to replace <yourTOKEN> with your actual token. Note that Postman may include other default headers that can be ignored or hidden.

Headers (8)		Cookies			
Headers		6 hidden			
KEY	VALUE	DESCRIPTION	...	Bulk Edit	Presets
<input checked="" type="checkbox"/> Accept	application/json		...		
<input checked="" type="checkbox"/> Authorization	fmetoken token= 64c376b1e501ed...		...		
Key	Value	Description			

8. Retrieve Job Information by REST API Request

In Postman, click Send. Wait ~5 seconds while FME Server receives the request and performs the query. When the request is finished, a response message returns information such as the translation summary, workspace details, user, and resources. Find the job id near the bottom of the response.

```

    ,
    "cpuTime": 2413,
    "id": 4326,
    "timeFinished": "2022-06-07T18:17:40Z",
    "engineName": "localhost_Engine1",
    "numWarnings": 0,
    "timeSubmitted": "2022-06-07T18:17:38Z",
    "elapsedTime": 2494,
    "peakMemUsage": 68437168,
    "status": "SUCCESS"
  ]

```

Congratulations! You've now sent a request via the FME Server Job Id endpoint. Use this request to fetch a translation status and results after a Submit request.

Troubleshooting

Failed Requests and Error Codes

The FME Server REST API returns an error when it rejects a request. The API response contains the error's code and message.

Review the [HTTP Response Codes and Errors section](https://docs.safe.com/fme/html/FME_REST/apidoc/v3/index.html) (https://docs.safe.com/fme/html/FME_REST/apidoc/v3/index.html) of the FME Server REST API documentation for an overview of general error codes and their corresponding messages.

HTTP Response Codes and Errors

The FME REST Service returns an HTTP status code for every request. For most GET requests, a response message is returned in your requested format, along with the status code. For most PUT and DELETE requests, only the status code is returned to indicate whether the operation is successful or not. Refer to the specifications reference for more details.

200	OK	Success; the results are rendered in the response body.
-----	----	---

201	Created	Success; the resource has been created.
-----	---------	---

202	Accepted	Success; the operation has been started.
-----	----------	--

204	No Content	Success; the response body contains no contents.
-----	------------	--

Error messages may also be specific to the request type. For example, a job request might be rejected when a published parameter is invalid. Select a request in the documentation to view its specific Response Status Codes:

Response Status Codes

HTTP Status Code	Reason
404	The workspace or repository does not exist.
422	Some or all of the input parameters are invalid.
202	Success. The transformation request has been accepted and queued for execution. A job ID is rendered in the response body.

[Try it out!](#)

Authentication Errors

When a token is rejected, you'll receive a "401 Unauthorized" or "403 Forbidden" error code.

The screenshot shows a REST API response interface. At the top, there are tabs for 'Body' (selected), 'Pretty', 'Raw', 'Preview', 'Visualize', 'JSON' (selected), and icons for copy, refresh, and search. The main area displays a JSON response with the following content:

```

1  {
2      "message": "Authentication failed: Failed to login"
3  }

```

Tokens are likely to be rejected when they are expired or do not have permissions to the workflow dependencies. Please review [Authorization in the FME Server REST API](#) (<https://community.safe.com/s/article/token-management-in-fme-server>) or the Authorization section of the [FME Server REST API documentation](#) (<https://sm-demos-fme-server-support.fmecloud.com/fmerest/apidoc/v3/#>) for authentication options and troubleshooting.

Continue to the next article: [Using the FME Server REST API to Create Job History Reports](#) (</s/article/Using-the-FME-Server-REST-API-to>Create-Job-History-Reports>).

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