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Dynamic Lookup Table API

SAP Ariba Developer Portal

SAP Ariba APIs

SAP Strategic Sourcing Suite



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Dynamic Lookup Table API

This guide is for a customer developer who develops a client application by implementing the dynamic lookup table API for uploading dynamic lookup tables to product sourcing.

This document applies to:

- SAP Ariba APIs
- SAP Ariba Developer Portal
- SAP Ariba Strategic Sourcing Suite

Prerequisites

- To create an application and request access to use the SAP Ariba APIs relevant to this feature, you must have access to the SAP Ariba Developer Portal. For details refer to [Steps to Start Using the SAP Ariba APIs in Help for the SAP Ariba Developer Portal](#).
- All queries made to this API must be authenticated using OAuth authentication. For details refer to [SAP Ariba Developer Portal Authentication in Help for the SAP Ariba Developer Portal](#).

Related Information

- [DMS-14700: Enhanced support for dynamic lookup tables](#)

Dynamic Lookup Tables

Dynamic lookup tables support one-to-many mappings between an input column and terms in an event.

You can upload multiple lookup tables in the same Excel file. Each worksheet in the Excel workbook represents a separate lookup table that is identified by the name of the worksheet that contains the table. On the **Lookup table** page, separate entries are created for each of the lookup tables in the Excel file. The file name, lookup table name which is derived from the worksheet name, and the created date are displayed on the page. For versioning, the file names are appended with a version number and version entries are created for the lookup tables. The version column indicates the lookup table version.

When you create the Excel file to upload lookup tables, ensure that the file meets the validation criteria as explained in [Lookup Table Excel File Validation Criteria \[page 4\]](#).

After you upload the lookup table Excel file, a scheduled task that runs every five minutes processes the file and completes the import. The status of the upload changes from **Created** to **Processing** to **Success**, or **Failure**.

Lookup Table Excel File Validation Criteria

When you create an Excel file to upload lookup tables, ensure that the file meets the following criteria.

- The Excel file contains one or more sheets that represent lookup tables.
- Every sheet has at least one input column and an output column.
- The first row is used to identify the columns as input columns or output columns.
- The second row is used to specify column names. Column names should be unique and should not be left blank.
- The total number of input and output columns in a lookup table does not exceed 250.
- The total number of rows in a lookup table does not exceed 20000.
- The total number of unique entries in an input column should not exceed 1500.
- The total number of sheets in the Excel file does not exceed 25.
- The names of worksheets and columns should not contain space between words.

Endpoints in Dynamic Lookup Table API

This topic describes the endpoints in the dynamic lookup table API.

Endpoint	Description
POST /jobs	Uploads dynamic lookup tables as Excel files and returns a job ID that you can use for checking the status.
GET /jobs/{jobID}	Retrieves the status of a dynamic lookup table upload based on the job ID you received in response to the POST request.

Workflow for Dynamic Lookup Table API

The dynamic lookup table API enables you to upload lookup tables in Excel format. You can also verify the status of the upload by using the API.

The following workflow describes the sequence in which you can implement the dynamic lookup table API:

1. Create an Excel file that has one or more sheets that contain lookup tables.

Note

When you create the Excel file to upload lookup tables, ensure that the file meets the validation criteria as explained in [Lookup Table Excel File Validation Criteria](#).

2. The client application sends a POST request that contains the Excel file in formdata.
3. The client application receives the job ID in the response to the POST request.
4. The client application sends the job ID in a GET request to fetch the status of the lookup table upload.

Uploading Lookup Tables and Viewing the Upload Status by Using the Dynamic Lookup Table API

This topic explains how you can use the dynamic lookup table API to upload lookup tables and view the status of the lookup table upload.

Prerequisites

- To create an application and request access to use the SAP Ariba APIs relevant to this feature, you must have access to the SAP Ariba Developer Portal. For details refer to [Steps to Start Using the SAP Ariba APIs](#) in [Help for the SAP Ariba Developer Portal](#).
- All queries made to this API must be authenticated using OAuth authentication. For details refer to [SAP Ariba Developer Portal Authentication](#) in [Help for the SAP Ariba Developer Portal](#).

Context

After you create an Excel file that contains the lookup tables, you can use the dynamic lookup table API to upload the file. A scheduled job that runs every five minutes processes the file you uploaded and completes the import.

You can also use this API to view the status of the upload job. The status of the lookup table upload could be **Created**, **Processing**, **Success**, or **Failure**.

→ Tip

Ensure that the Excel file meets the conditions mentioned in [Lookup Table Excel File Validation Criteria](#).

ⓘ Note

In the sample URLs in this topic, replace `{{runtime_url}}` with the desired runtime URL from the **Environment Details** table on the SAP Ariba Developer Portal discovery page for this API.

Procedure

1. Run the following REST API call:

```
POST {{runtime_url}}/realm=realm
Request body {
  Content-Type: multipart/form-data {
    file=lookuptablefile.xlsx;
    type=application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
  }
}
```

Where:

realm is the name of your realm.

file is the name of the lookup table Excel file.

You receive a **200**, **400**, or **401** message. If it is a **200** message, it also contains the job ID for the upload request.

2. Run the following REST API call:

GET `{{runtime_url}}/jobs/jobID?realm=realm`

Where:

realm is the name of your realm.

jobID is the job ID received in the **200** success message in response to the **POST** request.

You receive a **200**, **400**, or **401** message.

Response Codes for Dynamic Lookup Table Jobs API

The dynamic lookup table jobs API returns response codes when you submit a **POST** or **GET** request.

The following table describes the response codes the dynamic lookup table jobs API returns.

Response Code	Description
200	Success. For the POST request, this status indicates that the file upload job is created. The response also contains the job ID of the file upload job. For the GET request, this indicates that the job status is successfully retrieved and contains one of the following status messages: Created , Processing , Success , or Failure .
400	Bad Request. One or more parameters specified in the request are incorrect. For example, you uploaded a file type that is not supported or the job ID is incorrect.
401	Unauthorized request. You are using an access token that is expired or incorrect.

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U.S. Patent Nos. 6,199,050, 6,216,114, 6,223,167, 6,230,146, 6,230,147, 6,285,989, 6,408,283, 6,499,018, 6,564,192, 6,584,451, 6,606,603, 6,714,939, 6,871,191, 6,952,682, 7,010,511, 7,047,318, 7,072,061, 7,084,998; 7,117,165; 7,225,145; 7,324,936; 7,536,362; 8,364,577; and 8,392,317. Patents pending.

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