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Cost Breakdown Data Extraction API

SAP Strategic Sourcing Suite

SAP Ariba APIs

SAP Ariba Developer Portal



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Cost Breakdown Data Extraction API

This guide is for a customer developer who develops a client application to search for cost group documents and to download cost components and the associated cost group terms from a cost group document. The Cost Breakdown Data Extraction API is a REST API that is available on SAP Ariba Developer Portal.

A cost breakdown is a consolidated list of indirect and direct expenses which buyers use to calculate the cost of an assembled product. Cost breakdowns are used throughout the manufacturing stages such as prototyping and production and enable users such as part owners to track details of costs involved.

This guide applies to:

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

Related Guide

[SAP Ariba Product Sourcing Guide](#)

[Help for the SAP Ariba Developer Portal](#)

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Endpoints Included in the Cost Breakdown Data Extraction API

This topic describes the endpoints supported by the Cost Breakdown Data Extraction API.

The Cost Breakdown Data Extraction API contains the endpoints listed in the following table:

Endpoint	Description
GET /rfxCostgroups	Returns the list of cost group document IDs for line items for which awards or PIRs are created during a specified date range.
GET /costgroupDocuments/{costgroupDocumentId}	Returns the cost components and the associated cost group terms from the specified document.

Workflow for the Cost Breakdown Data Extraction API

This topic describes a workflow for implementing the endpoints of the Cost Breakdown Data Extraction API.

The Cost Breakdown Data Extraction API enables you to search for cost group documents associated with line items for which awards or PIRs are created and to view cost terms for a cost group document.

The following workflow describes the sequence in which you can implement the endpoints.

1. The client application searches for cost-group documents associated with line items for which awards or PIRs are created by specifying a date range.
2. From the search results, you identify the document that contains the cost breakdown data that you want to retrieve.
3. The client application retrieves the cost components and the associated cost group terms for the document ID you specified.

Searching for Cost Group Documents and Retrieving Cost Breakdown Data Using the API

This topic explains how you can use the Cost Breakdown Data Extraction API to search for cost group documents and retrieve cost breakdown data.

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

You can use the cost breakdown data extraction API to search for cost group documents associated with line items for which awards or PIRs are created and to retrieve cost breakdown data from the cost group documents.

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. To search for cost group documents associated with line items for which awards or PIRs are created, use the GET /rfxCostgroups endpoint as follows:

```
GET {{runtime_url}}/rfxCostgroups?
realm=realm&$filter=YYYYMMDDThhmmss&$top=number&$skip=number&$count=true | false
```

Where

realm indicates the name of the realm.

\$filter specifies the search criteria. The only parameter supported is **date**. Enter the **from** date for the search in YYYYMMDDThhmmss format. For example, 2019-12-31T12:30:05. The **to** date is by default the date and time when the API call is run.

\$top indicates the number of results to be included in one page of the response. For example, **\$top=10**.

\$skip indicates the number of documents to be skipped (offset) from the beginning of the result set for uses such as pagination. The default setting is 0. You can use the **\$skip** parameter to view a particular page. For example, if **\$top=10** and **\$skip=30**, the query directly loads the fourth page of results.

\$count indicates whether to include the total number of matching results in the response. Supported values are true and false.

The API returns the list of cost group documents from the specified time period.

2. Review the results to identify the cost group document that contains the cost breakdown data you want to retrieve.
3. To retrieve cost breakdown data, use the GET /costgroupDocuments/{costgroupDocumentId} endpoint as follows:

```
GET {{runtime_url}}/costgroupDocuments/costgroupDocumentId?realm=realm
```

Where

costgroupDocumentId indicates the document ID of the cost group document from which you want to retrieve the cost breakdown data.

realm indicates the name of the realm.

The API returns the cost components and the associated cost group terms from the specified cost group document.

For a list of response codes that the Cost Breakdown Data Extraction API returns, see [Response Codes for Cost Breakdown Data Extraction API \[page 6\]](#).

Response Codes for Cost Breakdown Data Extraction API

This topic describes the response codes the Cost Breakdown Data Extraction API returns.

Response code	Response text	Description
200	Success	Returns the list of cost breakdown IDs that match the specified criteria, or the cost components and the associated cost group terms from the specified cost group document.
400	Bad Request	Indicates that one or more parameters specified in the request are incorrect.
401	Unauthorized request	Indicates that you are using an access token that is expired or incorrect.
403	Forbidden	Indicates that you do not have the necessary permissions to access the requested resource.
404	Not found	Indicates that no matching entries could be found.
500	Internal server error	Indicates that the API call encountered an internal error at the server.

API-Specific Disclaimers and Legal Information

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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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