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Pricing API for Product Sourcing Price Information

SAP Ariba Sourcing

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Content

Pricing API for Product Sourcing Price Information.	3
About the Pricing API for Product Sourcing Price Information.	3
Workflow for the Pricing API for Product Sourcing Price Information.	5
Retrieval of Pricing Database Changes Using the Pricing API for Product Sourcing Price Information	5
Response Codes for the Pricing API for Product Sourcing Price Information.	7
Version History for the Pricing API for Product Sourcing Price Information.	7
API-Specific Disclaimers and Legal Information.	7

Pricing API for Product Sourcing Price Information

This guide is for product sourcing administrators seeking to retrieve all changes and additions to the product sourcing pricing database within a specified time range.

This guide applies to:

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

About the Pricing API for Product Sourcing Price Information

The Pricing API for product sourcing price information enables you to retrieve all changes and additions to the product sourcing pricing database within a specified time range.

The Pricing API for product sourcing price information exports active and inactive data.

The date and time format are ISO 8601 compliant. Three letter time zones such as PST, MST, CST, EST, and so on, are supported and must be set. If the time zone is not set, the validation check will fail with an invalid *todate* message. The complete ISO_OFFSET_DATE_TIME date format is: *yyyy - MM - dd'T'HH : mm : ss X*. For example: *2021-01-13T00:00:00-02:00*.

The Pricing API for product sourcing price information exports in JavaScript Object Notation (JSON) or XML. The default format is JSON.

The Pricing API for product sourcing price information exports changes and additions for the following data:

- RFX information
- RFX items
- RFX item suppliers
- RFX standard terms
- RFX custom terms
- Items that have been added or that have changed attributes other than pricing, such as the type, owner, category, description, or project.
- Item pricing. If one price changes or is added for an item (such as for a new time period or plant), all pricing information for the item is exported.

Note

If one price changes or is added for an item (such as for a new time period or plant), all pricing information for the item is exported.

- Item supplier splits. Split information for each item by supplier and the suppliers' percentage.
- BOM items

🕒 Note

If a new BOM was created in the requested time range, an entry is exported for each item in the BOM.

- Item attributes
- BOM split information. Split information (item quantities divided and allocated to multiple suppliers) for BOM items in the **BOMList**.
- Items added to plants
- Plants
- Estimated lead time for an item from a supplier
- Item suppliers
- Custom fields

The Pricing API for product sourcing price information is a REST API and supports the following method:

- GET: returns the changes and additions to the pricing database used for product sourcing.

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](#).
- Product sourcing functionality is only available as part of SAP Ariba Strategic Sourcing Suite.
- Buyers must import master data, material master, AML, and BOM data to product sourcing and have set up the product sourcing pricing database.

Restrictions

The Pricing API for product sourcing price information does not support the ability to retrieve data from date ranges greater than 24 hours.

Workflow for the Pricing API for Product Sourcing Price Information

The following workflow describes a logical sequence in which you can use the Pricing API for product sourcing price information to retrieve all changes and additions to the pricing database within a specified time range.

1. The buyer wants to identify all items that have been added or that have changed attributes other than pricing, such as the type, owner, category, description, or project in the product sourcing pricing database.
2. The buyer uses the GET `/objects/` endpoint. For example: `objects? realm=s4AllAutoMig&$filter=objectType in (ItemPrice, BOM) and fromdate eq '2020-04-29T09:30:00-08:00' and todate eq '2020-04-29T21:50:00-08:00'`
3. The client application retrieves the list of changes and additions to items in the product sourcing database.
4. The buyer wants to identify item pricing changes for the month of November.
5. The buyer uses the GET `/objects/ItemPrice` endpoint and specifies values for the `fromDate` and `toDate` filter expressions. For example: `objects? realm=s4AllAutoMig&$filter = objectType eq itemPrice` or `/objects?$filter = objectType in (ItemPrice, BOM) and fromdate eq '2020-04-29T09:30:00-08:00' and todate eq '2020-04-29T21:50:00-08:00'`
6. The client application retrieves the list of changes and additions to item prices in the product sourcing database for the specified time period.

Note

If one price changes or is added for an item (such as for a new time period or plant), all pricing information for the item is exported.

Retrieval of Pricing Database Changes Using the Pricing API for Product Sourcing Price Information

You can use the Pricing API for product sourcing price information to get all the changes and additions to the pricing database used for product sourcing.

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.

To get all the changes and additions to the product sourcing pricing database, run the following REST call:

```
GET {{runtime_url}}/pricing/v1/prod/objects?
realm=mySAPArribaSiteName&$filter=fromdate eq 'startDate' and todate eq endDate
```

Where:

- `myArribaSiteName` is your SAP Ariba site name for the SAP Ariba Strategic Sourcing Suite solution. If you do not know your site name, you can get it from your SAP Ariba representative.

- The *fromdate* is the lower boundary of the exported objects and is optional. The *timeCreated* and *timeUpdated* timestamp of the object is used for *fromdate* validation. Objects with *timeCreated* or *timeUpdated* greater than or equal to *fromdate* are exported. If *fromdate* is omitted, only the *todate* is validated.

ⓘ Note

The *fromdate* cannot be a future date.

- The *todate* is the upper boundary of the exported objects and is mandatory. The *timeCreated* and *timeUpdated* timestamp of the object is used for *todate* validation. Objects with *timeCreated* or *timeUpdated* less than *todate* are exported.

ⓘ Note

The *todate* cannot be a future date.

- The *objects* values include:

- RFX
- RFXItem
- RFXItemSupplier
- RFXStandardTerm
- RFXCustomTerm
- Item
- ItemPrice
- ItemAMLSplit
- Bom
- ItemAttribute
- BomSplit
- ItemPlant
- Plant
- LeadTime
- AML
- CustomFields
- ItemProgram
- Program
- ItemTags
- BomTags

ⓘ Note

The *objects* values are not case sensitive in the URL.

Related Information

[Export Pricing Updates Response](#)

Response Codes for the Pricing API for Product Sourcing Price Information

The Pricing API for product sourcing price information returns the following response codes when you run an API call:

Response Code	Description	API Method
200	Successful	GET
400	Bad request	GET
401	Not Authorized	GET
403	Forbidden	GET
404	Not found	GET
500	Internal server error	GET

Version History for the Pricing API for Product Sourcing Price Information

Use the active version of the Pricing API for product sourcing price information. Previous versions are deprecated and might be decommissioned at a later date.

API Version	Status	As of Release
1	Active	2011 (Q4 2020)

Related Information

[API versioning and deprecation on the developer portal](#)

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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