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Purchase Orders Supplier API

SAP Ariba APIs



Content

Purchase Orders Supplier API.....	3
Purchase Orders Supplier API Overview and Setup.....	3
Retrieving Order Information Using the Purchase Orders Supplier API.....	4
Construction of a Filter List for the Purchase Orders Supplier API.....	5
Error Messages Returned by the Purchase Orders Supplier API.....	7
API-Specific Disclaimers and Legal Information.....	9

This guide is for SAP Business Network suppliers who want to use the SAP Business Network Purchase Orders API to extract purchase order information.

The `Purchase Orders Supplier API` enables you to retrieve purchase order or line item information about your buyers directly from SAP Business Network.

This guide applies to:

- SAP Ariba APIs
- SAP Ariba Developer Portal
- SAP Business Network

Related Guides:

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

Purchase Orders Supplier API **Overview and Setup**

Retrieves purchase order information for a supplier's reporting purposes.

This API includes the following endpoints:

GET /orders The `/orders` endpoint retrieves order header data matching the specified buyer, supplier, and order ID.

GET /items The `/items` endpoint retrieves order item data matching the specified buyer, supplier, and order ID.

This API supports the following document types:

- Purchase orders
- Scheduling agreements
- Scheduling agreement releases

Prerequisites

- To create an application and request access to use this API, 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](#).
- You must configure the API client ID in SAP Business Network for buyers. For more details, see [Configuring the API Client ID in SAP Business Network for Buyers](#).

For additional information for suppliers, see [API Management](#) in the [SAP Business Network Supplier Administration Guide](#) guide.

Restrictions

Use of SAP Ariba APIs for suppliers using the SAP Ariba Developer Portal is restricted to SAP Business Network suppliers with Enterprise accounts. Access to the SAP Ariba Developer Portal is restricted for all other SAP Business Network supplier account types. For example, Standard Account suppliers cannot access the SAP Ariba Developer Portal.

Related Information

[Retrieving Planning Collaboration Information Using the Planning Collaboration Supplier API](#)

Retrieving Order Information Using the Purchase Orders Supplier API

Use this procedure to gather order information sent by your buyers.

Context

You can retrieve purchase order or line item information for your buyers from SAP Business Network.

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. Identify which type of purchase order information is desired: orders or line items.

2. Construct a filter list to specify what information to retrieve.

See [Construction of a Filter List for the Purchase Orders Supplier API \[page 5\]](#) for details.

3. Request a count of the desired purchase order information.

- For order information, use GET `{{runtime_url}}/orders? $filter=filter_list&$count=true&$orderby=value&$top=value&$skip=value`
- For line-item information, use GET `{{runtime_url}}/items? $filter=filter_list&$count=true&$orderby=value&$top=value&$skip=value`

filter_list

Specifies a list of query filter attributes that identify the information to retrieve.

\$count=true

Results return only the number of records that match the query criteria.

See [Construction of a Filter List for the Purchase Orders Supplier API \[page 5\]](#) for details about query parameters.

A successful query returns the number of records that match the specified filter criteria.

4. If the count indicates the need for a more detailed inquiry, request the desired information.

- For order information, use GET `{{runtime_url}}/orders?$filter=buyerANID eq buyer_ID [and attribute eq value...]&$orderby=value&$top=value&$skip=value`
- For line-item information, use GET `{{runtime_url}}/items?$filter=buyerANID eq buyer_ID [and attribute eq value...]&$orderby=value&$top=value&$skip=value`

buyer_ID

Represents the specified buyerSAP Business Network ID

[and attribute eq value...]

Represents additional attribute name/value pairs specified to the `$filter` parameter

A successful query returns detailed records that match the specified criteria.

Construction of a Filter List for the Purchase Orders Supplier API

Describes the header and query parameters for the `/orders` and `/items` endpoints.

The filter list comprises a list of key/value pairs separated by logical operators. The supported logical operator is `and`, which is case-sensitive.

Header Parameters	Description
X-ARIBA-NETWORK-ID	Required. Your SAP Business Network ID (ANID).

Query Parameters	Parameter Attributes	Description
\$filter		Specifies record search criteria and how to organize the returned records. If used, you must specify at least one <code>\$filter</code> attribute.
	buyerANID	The buyer's SAP Business Network ID (ANID).

Query Parameters	Parameter Attributes	Description
	documentNumber	The identifier for this order. It is the same value as orderID and similar to the purchase order number.
	orderStatus	Indicates what state of processing the order has reached.
	routingStatus	Indicates whether a purchase order or service order is queued, sent, acknowledged, or if routing failed.
	startDate	The starting date of the period in which SAP Business Network received the order. The date format is <i>YYYY-MM-DDThh:mm:ss</i> . The maximum date range is 31 days. If an endDate is not also specified, the API retrieves 31 days of data, starting from the startDate.
	endDate	The ending date of the period in which SAP Business Network received the order. The date format is <i>YYYY-MM-DDThh:mm:ss</i> . The maximum date range is 31 days. If not specified, the default is the current date and time when the API query is issued. If a startDate is not also specified, the API retrieves 31 days of data, ending with the endDate.
\$orderby		<p>Specifies the sort order of results. The syntax is \$orderby=<i>propertyName</i> asc.</p> <p>The value of <i>propertyName</i> is the column name to sort by. Valid values are:</p> <ul style="list-style-type: none"> • BUYERORGID • SUPPLIERORGID <p>The sort order can be either ascending (asc) or descending:(desc). When \$orderby is not specified, results are sorted in ascending order by default.</p>
\$skip		Specifies the number of items to skip (offset). Default is 0, which returns page 1.
\$top		The maximum number of items to display per page. Default is 10. Maximum is 100. Any setting greater than 100 displays 100 items per page.
		<div style="border: 1px solid #ccc; background-color: #f9f9f9; padding: 10px;"> <p>Note</p> <p>The pagination features of this API allow you to retrieve any number of supplier records in total.</p> </div>
\$count		Returns inline the number of elements in a collection. The syntax is \$count=true. Valid values are true, which returns the number of elements, or false, which returns a value of 0.

API requests can pass multiple [parameters \[page 5\]](#) in the request URL.

- Header parameters use the following syntax:

```
header_parameter eq value
```

- The `$filter` query parameter uses the following syntax, with the operator `and` between multiple parameter attributes:

```
$filter=attribute eq value and attribute eq value
```

Note

The `and` operator is case sensitive.

- Other query parameters use the following syntax, which is separated from `$filter` and other query parameters by an ampersand (`&`).

```
$filter=filter_attribute eq value & query_parameter = value & query_parameter = value
```

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.

Sample Code

The following example retrieves information for order PO0001 from buyer AN02000416677, created on a date between August 9, 2019 and August 11, 2019 and displays 15 records per page

```
GET {{runtime_url}}/orders?
$filter=documentNumbereqPO0001andbuyerANIDeqAN02000416677andstartDate eq2019-08-09
T00:00:00andendDate eq2019-08-11T00:00:00&$top=15
```

Sample Code

The following example retrieves items from order PO0001 from buyer AN02000416678, created on a date between August 9, 2019 and August 11, 2019 and displays 10 records per page.

```
GET {{runtime_url}}/items?
$filter=documentNumbereqPO0001andbuyerANIDeqAN02000416678andstartDate eq
2019-08-09T00:00:00andendDate eq2019-08-11T00:00:00&$top=10
```

Error Messages Returned by the Purchase Orders Supplier API

Use this information to troubleshoot your queries to the Purchase Orders Supplier API.

Error Code	Message	Description
400	The apikey passed in the request is not valid.	The API key passed in the query headers does not match the API key in the OAuth token.
401	Unauthorized	Authentication failed. Confirm your ANID and shared secret and make sure you are using basic authentication.

Error Code	Message	Description
403	Forbidden	Request refused by the server due to a lack of permission.
404	Not Found	The user is able to communicate with the server but is unable to locate the requested resource. Confirm the supplier ANID and resubmit your query.
500	Internal Server Error	The server cannot process the request for an unknown reason.
503	Service Unavailable	The server is overloaded or under maintenance. This error implies that the service should become available at some point.

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