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Ariba Network Purchase Orders API



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Ariba Network Purchase Orders API

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

The SAP Ariba Purchase Orders API enables you to retrieve purchase order header and item details 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](#)

Ariba Network Purchase Orders API Overview and Setup

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

This API provides the following endpoints:

GET /orders	Provides order header data matching the buyer, the supplier, and the Order ID
GET /items	Provides order item data matching the buyer, the supplier, and the Order ID

Use Cases

This API supports the following usages:

Use Cases

Buyers can use the data for reporting purposes. This is useful in scenarios where buyers and suppliers want to combine data from the ERP systems and SAP Business Network to generate reports for various purposes.

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](#) [page 5].

Restrictions

This API can be called only by buyers or partners with a valid SAP Business Network ID. SAP Business Network must authenticate this ID.

Related Information

[Workflow for the Ariba Network Purchase Orders API](#) [page 4]

Workflow for the Ariba Network Purchase Orders API

1. Client application retrieves the purchase order header data by calling the `get/orders` endpoint.
2. In response to the query, the API returns order header data.
3. The buyer uses this data for reporting purposes along with the data from the ERP systems.
4. Client application retrieves the purchase order item level data by calling the `get/items` endpoint.
5. In response to the query, the API returns item level data for the specified item in the purchase order.
6. The buyer uses this data for reporting purposes.

Configuring the API Client ID in SAP Business Network for Buyers

Use this procedure to configure your API client ID.

Context

If you are using OAuth authentication, you must link the client ID that is generated for the API in the developer portal with the buyer account ANID in SAP Business Network, so that the API knows which buyer the client application is associated with.

To configure an API client ID in SAP Business Network for buyers, follow these steps:

Procedure

1. In the SAP Ariba Developer Portal, navigate to the **Manage** tab and choose **My Applications**.
2. From the list of client applications on the left side of the screen, choose the desired application.
3. Copy the value in the **OAuth Client ID** field.
4. In the SAP Business Network buyer account, click on the Account Settings icon and choose ► **Manage Profile** ► **API Client ID Configuration** ►.
5. Select **Add** and paste the OAuth client ID value in to the **Client ID** field.
6. When you are finished, click **Save**.

Components of an Ariba Network Purchase Orders API Query

You can develop a client application that calls the purchase order API endpoints to get the order list and the order item list data 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.

API requests can pass multiple [Parameters for the Ariba Network Purchase Orders API \[page 6\]](#) in the request URL.

- Header parameters use the following syntax:

header_parametereqvalue

- The query `$filter` parameter uses the following syntax, with the word `and` between multiple parameters to `$filter`:

```
$filter=parameterreqvalueandparameterreqvalue
```

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

```
$filter=filter_parametereqvalue&query_parameter=value&query_parameter=value
```

Sample Code

The following example retrieves the order header data for `orderStatus 1234` with the `North10B` `documentNumber`, and displays 15 records per page.

```
GET {{runtime_url}}/orders?
$filter=orderStatus=1234anddocumentNumber=North10B&$top=15
```

Parameters for the Ariba Network Purchase Orders API

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

Header Parameter	Requirement	Description
Authorization	Required	Your authorization credentials. Enter Bearer followed by a space and your access token.
apikey	Required	Your application key. This key is automatically generated when you create an application on the SAP Ariba Developer Portal, and is visible when you select your application in the Manage Applications area.
X-ARIBA-NETWORK-ID	Required	Your SAP Business Network ID (ANID).

Query Parameters	Parameter Attributes	Requirement	Description
\$filter		Optional	Specifies search criteria which is used to search for purchase orders. If used, must specify at least one <code>\$filter</code> attribute.
	buyerANID	Optional	The buyer's ANID
	supplierANID	Optional	The supplier's ANID.

Query Parameters	Parameter Attributes	Requirement	Description
	documentNumber	Optional	Identifier for the purchase order. Similar to the purchase order number.
	orderStatus	Optional	Indicates the processing status of the purchase order.
	routingStatus		Indicates the routing status of the purchase order. Available routing status are: queued , sent , acknowledged , and failed .
	startDate	Optional	Searches by the date on which SAP Business Network receives the purchase order. 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	Optional	Searches by the date on which SAP Business Network receives the purchase order. The maximum date range is 31 days. If a startDate is not also specified, the API retrieves 31 days of data, ending with the endDate .
\$orderBy	sortCol	Optional	Specifies the column that is sorted and also the order of the results The column to sort on. Available columns are: - BUYERORGID - SUPPLIERORGID
	sortDir	Optional	The direction to sort data. Valid values are ASC (ascending) and DESC (descending).
\$top		Optional	The number of items to be returned (page size).
\$skip		Optional	The number of items skipped (offset).

Error Messages Returned by the Ariba Network Purchase Orders API

Use this information to troubleshoot your queries to the SAP Ariba Purchase Orders 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.
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.

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