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# Order Change Requests API for Buyers

## SAP Ariba Supply Chain Collaboration



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# Order Change Requests API for Buyers

This guide is for SAP Business Network buyers with SAP Business Network for Supply Chain enablement who want to extract change request information.

The **Order Change Requests API for Buyers** enables you to request relevant information from SAP Business Network for purchase-order change requests.

This guide applies to:

- SAP Ariba APIs
- SAP Ariba developer portal
- SAP Business Network
- SAP Business Network for Supply Chain

This API uses the following endpoints:

|                                              |                                                                                                                                          |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GET /changeRequests</b>                   | This endpoint retrieves information from change requests sent to a specified supplier.                                                   |
| <b>GET /changeRequestResponses</b>           | This endpoint retrieves information from responses to change requests that were sent by a specified supplier.                            |
| <b>GET /<br/>changeRequestConfirmations</b>  | This endpoint retrieves information from confirmations to change requests that were sent by a specified buyer.                           |
| <b>POST /changeRequests</b>                  | The /changeRequests endpoint sends information of change requests that were sent to a specified supplier.                                |
| <b>POST /<br/>changeRequestConfirmations</b> | The /changeRequestConfirmations endpoint sends information from confirmations to change requests that were sent to a specified supplier. |

## 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](#).
- You must be enabled for SAP Business Network for Supply Chain.
- 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 \[page 4\]](#).
- 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](#).

## Restrictions

- This API can **retrieve and send data** only for suppliers in a relationship with you.
- This API does not support retrieving data from change requests for scheduling agreements or scheduling agreement releases.

## Related Information

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

[Retrieving Change-Request Information Using the Order Change Requests API for Buyers \[page 5\]](#)

# 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**.

# Retrieving Change-Request Information Using the

## Order Change Requests API for Buyers

Use this procedure to gather change request information sent by your suppliers.

### Prerequisites

- To create an application and request access to use this API, you must have access to the SAP Ariba Developer Portal. For details, see [Steps to Start Using the SAP Ariba APIs](#) in the *SAP Ariba developer portal* guide.
- 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 \[page 4\]](#).

### Context

You can retrieve from SAP Business Network information in change requests, change request responses, and change request confirmations for your suppliers.

### Procedure

1. Identify which type of information is desired:
  - Change requests (`/changeRequests`), change-request responses (`/changeRequestResponses`), or change-request confirmations (`/changeRequestConfirmations`)
  - Either header or item information
2. Construct a filter list to specify what information to retrieve.

For details and an example, see [Filter Construction for the Order Change Requests API for Buyers \[page 6\]](#).
3. Request a count of the desired change request information by including `$count=true` in your filter list.

#### Sample Code

```
GET {{runtime_url}}/endpoint?  
$filter=filter_list&$count=true&$orderby=value&$top=value&$skip=value
```

#### Note

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

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

If the query is unsuccessful, the response includes an error message. See [Error Messages Returned by the Order Change Requests API for Buyers \[page 9\]](#) for a list of error messages specific to this API.

4. If the count indicates the need for a more detailed inquiry, request the desired information.
5. Parse or format the response data as needed.

#### Note

This step is not performed using the API. It can be executed programmatically or by hand, as you prefer.

## Filter Construction for the Order Change Requests API for Buyers

Use filters to refine the change request information the API retrieves.

The filter list comprises a list of name/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 <b>Ariba Network ID</b> (ANID). |

| Parameter       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>\$filter</b> | Specifies record search criteria and how to organize the returned records. If used, you must specify at least one <b>\$filter</b> attribute: <ul style="list-style-type: none"> <li><b>supplierANID</b> The supplier's <b>Ariba Network ID</b>.</li> <li><b>orderNumber</b> The identifier for this order. Analogous to the purchase order number.</li> <li><b>itemNumber</b> The purchase order line number.</li> <li><b>scheduleLineNumber</b> The purchase order schedule-line number.</li> <li><b>plantID</b> A buyer plant location code.</li> <li><b>customerPartNumber</b> The identifier for an item in the buyer system. This identifier is specified by the buyer.</li> <li><b>startDate</b> <p>The earliest date in a date range during which SAP Business Network received a change request. The maximum date range is 31 days.</p> <p>If <b>startDate</b> and <b>endDate</b> are not specified, the date range is 31 days before today. Otherwise, both values must be specified. The dates can be in the past, but with a maximum date range of 31 days.</p> </li> <li><b>endDate</b> <p>The latest date of a date range during which SAP Business Network received a change request. The maximum date range is 31 days</p> <p>If <b>startDate</b> and <b>endDate</b> are not specified, the date range is 31 days before today. Otherwise, both values must be provided. The specified dates can both be in the past, but with a maximum date range of 31 days.</p> </li> <li><b>supplierResponseStatus</b> The status of the supplier response. The valid values are case sensitive. <ul style="list-style-type: none"> <li>For the <b>/changeRequests</b> endpoint, the possible values are <b>Accepted</b>, <b>Rejected</b>, <b>Proposed</b>, or <b>Pending</b>.</li> <li>For the <b>/changeRequestResponses</b> endpoint, the possible values are <b>Accepted</b>, <b>Rejected</b>, or <b>Proposed</b>.</li> </ul> </li> <li><b>customerResponseStatus</b> The status of the buyer response. The valid values are case sensitive. <ul style="list-style-type: none"> <li>For the <b>/changeRequests</b> endpoint, the possible values are <b>Accepted</b>, <b>Rejected</b>, or <b>Pending</b>.</li> </ul> </li> </ul> |

| Parameter              | Description                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | <ul style="list-style-type: none"> <li>For the <code>/changeRequestResponses</code> endpoint, the possible values are <code>Accepted</code>, <code>Rejected</code>, or <code>Proposed</code>.</li> </ul>                                                                                                                                                                                                                                |
| <code>\$orderby</code> | <p>Specifies the sort order of results. The syntax is <code>\$orderby=propertyName asc</code>.</p> <p>The value of <code>propertyName</code> is the column name to sort by. The only valid value is <code>SUPPLIERORGID</code>.</p> <p>The sort order can be either ascending (<code>asc</code>) or descending (<code>desc</code>). When <code>\$orderby</code> is not specified, results are sorted in ascending order by default.</p> |
| <code>\$top</code>     | <p>The maximum number of items to display per page. Default is 10. Maximum is 1000. If set to a number greater than 1000, pages display no more than 1000 items.</p> <div> <p><b>Note</b></p> <p>The pagination features of this API allow you to retrieve any number of buyer records in total.</p> </div>                                                                                                                             |
| <code>\$skip</code>    | Specifies the number of items to skip (offset). Default is 0, which returns page 1.                                                                                                                                                                                                                                                                                                                                                     |
| <code>\$count</code>   | Returns inline the number of elements in a collection. The syntax is <code>\$count=true</code> . Valid values are <code>true</code> , which returns the number of elements, or <code>false</code> , which returns a value of 0.                                                                                                                                                                                                         |

API requests can pass multiple parameters in the request URL.

- Header parameter syntax:

```
header_parameter eq value
```

- `$filter` syntax – The `and` operator separates multiple parameter attributes:

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

#### Note

- The `and` operator is case sensitive.
- Spaces are allowed in the attribute list around the `eq` and `and` operators, but also each attribute's value must be enclosed in single quotes (`' '`). Open API internally parses the request URL to remove the spaces.

- Query-parameter syntax – An ampersand (`&`) separates query parameters from the `$filter` and other query parameters:

```
$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 all change-request records for buyer part ID Part007 from buyer AN01000000001 that were created between December 23, 2019, and December 30, 2019, and displays 5 records per page.

```
GET {{runtime_url}}/changeRequests?$filter=customerPartNumber eq 'Part007' and  
buyerANID eq 'AN010000000001' and startDate eq '2019-12-23T00:00:00' and endDate  
eq '2019-12-30T00:00:00'&$top=5
```

## Error Messages Returned by the Order Change Requests API for Buyers

Use this information to troubleshoot your API queries.

| Error Code | Message      | Description                                                                                                                                     |
|------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 buyer ANID and resubmit your query. |

## CSC-30492: Buyer and Supplier APIs for Change Requests, Change Request Responses, and Change Request Confirmations

Buyer and Supplier APIs for Change Requests, Change Request Responses, and Change Request Confirmations

### Technical Details

|                   |                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------|
| Title:            | Buyer and Supplier APIs for Change Requests and Responses                                                     |
| Reference Number: | CSC-30492                                                                                                     |
| Products:         | SAP Ariba APIs<br>SAP Ariba developer portal<br>SAP Business Network<br>SAP Business Network for Supply Chain |

|                   |                     |
|-------------------|---------------------|
| User Type:        | Buyer<br>Supplier   |
| Type:             | New                 |
| Enablement:       | Customer configured |
| Action:           | Info only           |
| Business Process: | Not applicable      |
| Release:          | SAP Ariba 2211      |

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Feature IDs associated with this feature: CSC-30492, CSC-31809, CSC-46859.

## Description

Buyers and suppliers can use an API to retrieve information from change requests and change request responses sent to a specific trading relationship.

- The **Order Change Requests API for Buyers** enables buyers to retrieve sent or send information to a specified supplier. For details, see [Order Change Requests API for Buyers \[page 3\]](#).
- The **Order Change Requests API Suppliers** enables suppliers to retrieve sent or send information to a specified buyer. For details, see [Order Change Requests API for Suppliers](#).

## 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](#).
- You must be enabled for SAP Business Network for Supply Chain.
- 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](#).

## 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.

## Information for Buyers

- [Order Change Requests API for Buyers \[page 3\]](#)
- [Retrieving Change-Request Information Using the Order Change Requests API for Buyers \[page 5\]](#)

## Information for Suppliers

- [Order Change Requests API for Suppliers](#)
- [Retrieving or Sending Change Request Information Using the Order Change Requests API for Suppliers](#)
- [Topics about API management](#) in the *Seller account settings and profile configuration* guide.

# Version History for Order Change Requests API for Buyers

The Order Change Requests API for buyers may have multiple versions, only one of which is active at this time. Previous versions are deprecated and might be decommissioned at a later date.

| API Version | Status | As of Release  |
|-------------|--------|----------------|
| 1           | Active | 2208 (Q3 2022) |

## Related Information

[API Versioning and Deprecation on the SAP Ariba Developer Portal](#)

# API-Specific Disclaimers and Legal Information

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