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Ariba Network Invoice Header Data Extraction API

Ariba Network

Ariba Network for Suppliers

SAP Ariba APIs

SAP Ariba Developer Portal



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Ariba Network Invoice Header Data Extraction API

This guide is for SAP Ariba buyers and suppliers to get the header information of one or more invoices associated with a particular SAP Business Network user ID (ANID).

This guide applies to:

- SAP Ariba APIs
- SAP Ariba Developer Portal
- SAP Business Network
- SAP Ariba Buying and Invoicing
- SAP Business Network Commerce Automation
- SAP Ariba Invoice Management

Related guides:

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

Ariba Network Invoice Header Data Extraction API Overview

Prerequisites

To use the Ariba Network Invoice Header Data Extraction API:

- 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 see “Steps to start using the SAP Ariba APIs” in the help for *The SAP Ariba Developer Portal*.
- All queries made to this API must be authenticated using OAuth authentication. For details see “Developer Portal Authentication” in the help for *The SAP Ariba Developer Portal*.
- You must configure the API client ID in SAP Business Network. For more details see, [Configuring API Client ID in SAP Business Network for Suppliers \[page 4\]](#) and [Configuring API Client ID in SAP Business Network for Buyers \[page 5\]](#).

Additional References

For more information on API management, see "Topics about API management" in *Seller account settings and profile configuration*.

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.

Workflow for Ariba Network Invoice Header Data Extraction API

The client application posts the request to get the invoice header information based on specific filter criteria using the Ariba Network Invoice Header Data Extraction API.

The invoice header information based on the posted request is returned.

Configuring API Client ID in SAP Business Network for Suppliers

Use this procedure to configure API client ID in SAP Business Network for suppliers.

Context

To configure API client ID in SAP Business Network for suppliers, perform the following steps:

Procedure

1. Click **Company Settings**.
2. Click **View All** on the **Company Settings** dropdown.
3. Click **API management**.
4. In the **API Client ID Configuration** section, click **Add**.
5. Enter the **Client ID**.

6. Click **Save** to save the client ID.

Configuring API Client ID in SAP Business Network for Buyers

Use this procedure to configure API client ID in SAP Business Network for buyers.

Context

To configure API client ID in SAP Business Network for buyers, perform the following steps:

Procedure

1. Click **Account Settings**.
2. Click **Manage Profile** on the **Account Settings** dropdown.
The **Configuration** page is displayed.
3. On the **Configuration** page, click **API Client ID Configuration**.
4. Click **Add**.
5. Enter the **Client ID**.
6. Click **Save** to save the client ID.

Getting Invoice Header Information with Ariba Network Invoice Header Data Extraction API

Use this procedure to get invoice header information with Ariba Network Invoice Header Data Extraction API.

Context

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.

Follow these steps to get invoice header information:

Procedure

1. The client application posts the request to get invoice header information. To get invoice header information:

Sample Code

```
GET {{runtime_url}}/invoices?$filter=expression
```

where **filter** defines the filter criteria based on which invoice header data is requested.

Example:

```
GET {{runtime_url}}/invoices?$filter=startDate eq '2019-10-08T15:26:58' and  
endDate eq '2019-10-18T15:26:58'&$top=10&$skip=0
```

Invoice header data is returned based on the following header parameters:

Table 1: Header Parameters for Ariba Network Invoice Header Data Extraction API:

Header Parameter	Description
Authorization	Your authorization credentials. Enter Bearer Token.
apikey	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 section.
X-ARIBA-NETWORK-ID	Your SAP Business Network ID (ANID).
includeInvoiceProfile	Boolean value indicating whether or not to include Invoice Profile data in the result. By default, its value is false.

Invoice header data can be filtered based on the following criteria:

Table 2: Filter Parameters for Ariba Network Invoice Header Data Extraction API:

Filter Criterion	Description
buyerANID	Buyer's ANID. The invoices associated with the specified buyerANID is returned.
supplierANID	Supplier's ANID. The invoices associated with the specified supplierANID is returned.
documentNumber	Invoice document number.

Filter Criterion	Description
documentStatus	Processing status of the invoice. It can be one of the following values: • Paid • Approved • Canceled • Failed • Unknown • Rejected • Sent • In progress • Pending Approval • Obsoleted
routingStatus	Routing status of the invoice. It can be one of the following values: • Sent • Failed • On Hold • Queued • Acknowledged • Obsoleted
startDate	Start date and time to retrieve invoice header information based on when the invoice was created.
endDate	End date and time to retrieve invoice header information based on when the invoice was created.
documentStatusUpdatedStartDate	Start date and time to retrieve invoice header information based on when the invoice was updated .
documentStatusUpdatedEndDate	End date and time to retrieve invoice header information based on when the invoice was updated .
documentPurpose	Purpose of the invoice. It can be one of the following values: • standard • creditMemo • debitMemo • lineLevelCreditMemo • lineLevelDebitMemo

📌 Note

- To get the header data of invoices within a time period, both `startDate` and `endDate` must be given together in the filter parameter in an API call. Giving either one alone as a filter criterion throws an error.

The maximum duration that can be given as filter is 31 days. If `startDate` and `endDate` are not included in the filter parameter, invoice header data from the past 31 days is returned by default.

- Provide the date and time as per the UTC time zone while using the Date and Time filter criteria. For example, `startDate`, `endDate`, `documentStatusUpdatedStartDate`, and `documentStatusUpdatedEndDate`.
- If the user calling the API is a buyer, the value of the filter criterion `buyerANID` is ignored and all invoices associated with that buyer are returned. Similarly, if the user calling the API is a supplier, the value of the filter criterion `supplierANID` is ignored and all invoices associated with that supplier are returned.
- The Ariba Network Invoice Header Data Extraction API can be called without any filter criterion. In such cases, all invoice header data specific to the ANID of the user who made the API call is returned.

The Ariba Network Invoice Header Data Extraction API uses pagination to display the result. This display can be modified using certain parameters that are used in the API call along with the filter criteria.

- **\$orderby** - This specifies the order of the displayed result based on a filter criterion. To further customize the result, use **ASC** or **DESC**.
The value for **\$orderby** can be `buyerANID` or `supplierANID`. This sorts the API response based on the ANID of the buyer or the supplier in either ascending or descending order. If **\$orderby** is not specified, the result is displayed in descending order based on the document creation date by default.
- **\$skip** - This specifies the number of items to be skipped.
- **\$top** - This specifies the number of items to be returned and can have a maximum value of 100. If **\$top** value is not given as an input in the API call, the first 10 items are returned as response by default.

Sample Code

```
GET {{runtime_url}}/invoices?$filter=startDate eq '2021-02-02T00:01:01'
and endDate eq '2021-02-02T23:59:58'&$filter=documentStatusUpdatedStartDate
eq '2021-02-02T00:01:01' and documentStatusUpdatedEndDate eq
'2021-02-02T00:01:01'&$skip=0&$top=100
```

2. The invoice header data based on the specified filter criteria is returned.

Sample Code

Example:

```
{
  "firstPage": "boolean",
  "limit": "integer",
  "lastPage": "boolean",
  "content": [
    {
      "documentNumber": "string",
      "supplierName": "string",
      "supplierANID": "string",
      "buyerName": "string",
      "buyerANID": "string",
      "createdDate": "string",
      "documentDate": "string",
      "routingStatus": "string",
      "documentStatus":
"string",
      "payloadId":
"string",
```

```

        "netTerms":
"integer",
        "documentStatusComments": "string",
        "documentStatusDate": "string",
        "externalInvoiceNumber": "integer",
        "externalOrderNumber":
"integer",
        "numberOfItems":
"integer",
        "purpose": "string",
        "signFromCountry": "string",
        "signToCountry": "string",
        "tax":
{
            "amount": "integer",
            "currencyCode": "string",
        },
        "totalAmount":
{
            "amount": "integer",
            "currencyCode": "string",
        },
        "type":
"string"
    },
    "offset":
"integer",
    "count":
"integer",
    "firstPage":
"boolean",
    "limit":
"integer",
    "lastPage":
"boolean",
    "totalPages": "integer"
}

```

The result of the API call consists of the following parameters:

Table 3: Result Parameters for Ariba Network Invoice Header Data Extraction API:

Result Parameter	Description
content	API response with the requested header data.
offset	Current page number in the returned data. The value of this parameter starts with 0.
count	Count of the invoices in the result.
limit	Number of invoices to be displayed in the result. The default value is 10. You can change this value by using the \$stop parameter in the API call.
firstPage	Boolean value indicating whether or not the first page of the result is currently displayed.
lastPage	Boolean value indicating whether or not the last page of the result is currently displayed.

Result Parameter	Description
totalPages	Total number of pages of the result. You can navigate to the following pages using the \$skip parameter in the API call.

The content of the API result call consists of the following invoice header parameters:

Table 4: Invoice Header Parameters for Ariba Network Invoice Header Data Extraction API:

Invoice Header Parameter	Description
documentNumber	Invoice document number.
supplierName	First name and last name of the supplier.
supplierANID	ANID of the supplier.
buyerName	First name and last name of the buyer.
buyerANID	ANID of the buyer.
createdDate	Date on which the invoice is created on SAP Business Network.
documentDate	Invoice date on the cXML document.
routingStatus	Routing status of the invoice.
documentStatus	Processing status of the invoice.
payloadId	Payload ID of the invoice.
netTerms	Numbers of days till payment is due.
documentStatusComments	Comments about the last document status update.
documentStatusDate	Date of the last status update of the document.
externalInvoiceNumber	External invoice number related to the invoice.
externalOrderNumber	External reference number related to the purchase order of the invoice.
numberOfItems	Number of items on the invoice.
purpose	Purpose of the invoice.
signFromCountry	Country/region of origin of the invoice.
signToCountry	Country/region of destination of the invoice.
tax.amount	Tax amount in the invoice.
tax.currencyCode	Currency code for the tax amount in the invoice.
totalAmount.amount	Total amount in the invoice.
totalAmount.currencyCode	Currency code for the total amount in the invoice.

Invoice Header Parameter	Description
type	Type of invoice. It can be one of the following values: - TypeContract - TypeExternalPO - TypeMultiplePO - TypeSinglePO - null
paymentDueDate	The date on which the buyer plans to make the payment to the supplier.
buyerVatID	The VAT id of the buyer.
supplierVatID	The VAT id of the supplier.
buyerTaxID	The Tax id or VAT id of the organization that ordered the items or services.
supplierTaxID	The Tax id or VAT id of the supplier.
fromAddress	The address used by supplier companies to invoice the buyer companies on the invoice header (Name, Street 1, Street 2, Street 3, Street 4, City, State, Postal Code, Country).
soldToAddress	The address of the organization that ordered the items or services (Name, Street 1, Street 2, Street 3, Street 4, City, State, Postal Code, Country).
billToAddress	The address of the company being billed (Name, Street 1, Street 2, Street 3, Street 4, City, State, Postal Code, Country).
remitToAddress	The address used by buyer companies to remit payments to supplier companies (Name, Street 1, Street 2, Street 3, Street 4, City, State, Postal Code, Country).

Response Fields Returned by Ariba Network Invoice Header Data Extraction API

The JSON response message contains the following fields:

Table 5: API Response Fields:

Field	Description
result	Requested invoice header data.

Field	Description
success	Status of the get request for invoice header data. It can be one of the following values: • true • false
errorMessage	Description of the error.
errorCode	Error code indicating the reason for the failure of the operation.
status	Status of the request.

Example API response

```
{
  "result": null,
  "success": "false",
  "errorMessage": "Buyer with ANID: AN00000000001 doesn't exist",
  "errorCode": "404",
  "status": "Not Found"
}
```

Error Messages

If a submitted API query for requisitions fails, the response body contains one or more of the following error codes.

Error Code	Status	Description
400	Bad Request	The following are the possible error messages: - Invalid URL. Please enter proper OData Notation for filter parameter. - Invalid documentPurpose: {0}. - Invalid orderBy value: {0}. Please use buyerANID or supplierANID. - Invalid orderBy order: {0}. Please use ASC or DESC. - Invalid documentStatus: {0}. - Invalid routingStatus: {0}. - Invalid date and time format. Please use the yyyy-mm-ddThh:mm:ss format. startDate cannot be later than endDate. - Date cannot be later than the current date. - Maximum date range is 31 days. - Maximum value for top is 100. - Invalid top value: {0}.
401	Unauthorized	The following are the possible error messages: - Current user is either not secure or not registered. - Exception while trying to validate token with OAuth Server: token not found. - Exception while trying to validate token with OAuth Server: token is expired. - Exception: Invalid client id: {0} - Fail to validate the scope with the OAuth Server: no permitted scope. - Token info received during token validation is null.

Error Code	Status	Description
403	Not Found	The following are the possible error messages: • Supplier with ANID: {0} does not exist. • Buyer with ANID: {0} does not exist. • The value of <code>startDate</code> and <code>endDate</code> must not be null.

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