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Supplier Invite API

Ariba Network



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Supplier Invite API

This guide is for a customer developer who wants to create a client application that creates vendor records in SAP Business Network.

The Supplier Invite API allows you to create vendor records in SAP Business Network.

This guide applies to:

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

Related guides

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

[Enabling Suppliers on SAP Business Network](#)

About the Supplier Invite API

This API allows you to create vendor records in SAP Business Network.

In addition to this, you can use a flag in the API request body to send trading relationship request email or fax to vendors automatically. If not automatically started, the vendor request is triggered only when the vendor is "started" using the existing functionality on the SAP Business Network user interface.

The Supplier Invite API can also be used, in one specific scenario, to update vendor records in SAP Business Network:

- SAP S/4HANA for supplier quotation management (SAP S/4HANA for product sourcing) buyers can send a Supplier Invite API request with an existing vendor to suppliers who already have an established **AN_Fulfillment collaborationType**, so as to assign them an additional **collaborationType** of **S4HANA_ProductSourcing**.

This API can be used by buyer external systems, SAP Ariba apps, such as SAP Ariba Sourcing, or other entitled SAP Business Network service providers.

Vendor records can also be created in two other ways - by creating them directly in the user interface or by uploading a CSV file to SAP Business Network. This API offers another way to create vendor records in SAP Business Network.

For more information about creating vendors and triggering trading relationship requests, see the [Enabling Suppliers on SAP Business Network](#) guide.

Prerequisites

- A buyer customer that wants to set up an API triggered SAP Business Network Trading Relationship Request invite flow must have an SAP Business Network Buyer account.
- 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](#).
- 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

The API does not allow changes to existing vendors on SAP Business Network, other than to extend the `collaborationType` of `S4HANA_ProductSourcing` to existing vendors who already have an established `AN_Fulfillment` `collaborationType`, as described above.

Workflow for the Supplier Invite API

To view your vendor list in SAP Business Network, select ► **Supplier Enablement** ► **Manage Vendors** ►.

- If the `autoStartSE` field in the API body is set to `false`, the client application requests that the vendor is created and added to the vendor list in SAP Business Network. With this option, if you want to send a trading relationship request to the vendor you must do this manually by selecting ► **Actions** ► **Start Enablement** ►.
- If the `autoStartSE` field in the API body is set to `true`, the client application requests that the following tasks are triggered:
 - the vendor is created and added to the vendor list in SAP Business Network
 - a trading relationship request email is sent to the vendor

In both cases, you can click on the vendor name in the SAP Business Network vendor list to view the vendor details that were provided by the API.

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**.

Creating a Vendor with the Supplier Invite API

Use this procedure to create a vendor with the Supplier Invite API. This API allows external buyer systems to create vendor records in SAP Business Network.

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.

Procedure

1. The client application posts the request to the Invite API Production URL. This request posts a create job. The Invite API Production URL will depend on your location. For the Invite API Production URL, see the **Environment Details** table on the SAP Ariba developer portal discovery page for this API.

Example Invite API Production URL for the United States:

```
{{runtime_url}}/vendors
```

2. The following tables describe the most important fields in the API header and request body. For a list of all fields that can be added to the API header and request body, see the SAP Ariba Developer Portal discovery page for this API.

Table 1: Supplier Invite API Sample Header Fields

Field	Required	Type	Description
X-ARIBA-NETWORK-ID	Yes	String	Buyer ANID used for authentication Note: This is an API header field.

Table 2: Supplier Invite API Sample Request Body Fields

Field	Required	Type	Description
companyName	Yes	String 256	The name of the vendor. It will also be visible to suppliers in the invite flow and allows the supplier to identify which supplier entity is being invited.
vendorId	Yes if taxId is empty	String 256	The vendorId is required unless taxId is used and is part of the unique vendor compound key. In addition, two optional keys (siteId and siteAuxId) can be used depending on the ERP type and integration strategy on the buyer side. Note: The first uploaded vendor compound key is marked as the default.
siteId	No	String 256	Vendor location ID An optional part of the unique vendor compound key.

Field	Required	Type	Description
siteAuxId	No	String 256	Holds an additional ID of the unique vendor key, often used for address ID or contact ID.
erpAccount	Yes for multi-ERP buyer	String 256 (must match pre-configured value)	For multi-ERP customers only.
supplierAnid	No	AN01999999999	SAP Business Network ID of an existing supplier account. supplierANID can be used for two purposes: (a) To add a vendor compound key to an existing (public) relationship. (This requires that multi-vendor IDs are allowed, using the SAP Business Network entitlement "Allow Multiple Private ID's per Supplier", which is enabled by SAP Ariba Support.) or (b) To suggest an existing supplier account to the supplier in the Trading Relationship letter (TRR). This requires that the buyer searched for and found an existing supplier ANID on SAP Business Network. Note that in future Trading Relationship Request emails this approach will not be support, as the supplier will be able to use embedded duplication functionality during registration.
taxId	Yes if Vendor ID is empty	String 256	Required if vendorId is empty. Can be use to uniquely identify vendors.
address.isoCountryCode	Yes	Two or three-letter ISO country code	Value is also used to default phone/fax country codes if no specific value is provided for these fields.
address.city	Yes if Vendor Postal Code is empty	String 256	

Field	Required	Type	Description
<code>address.postalCode</code>	Yes if Vendor City is empty	String 256	Validated for U.S. based vendors
<code>address.isoStateCode</code>	Yes if the Vendor City or Vendor Postal Code is a US address, but not required for addresses outside the US.	ISO State code XX-YYY	ISO state code using XX-YYY, XX = 2 byte ISO country, YYY state code (1-3 bytes). See cXML Solutions Guide for details about supported ISO state codes.
<code>businessType</code>	No	String	A subscription to a business type specific onboarding service is required to use businessType specific invitation. Contact SAP Ariba Support for more details. Allows you to send a trading relationship request (TRR) invitation that is based on a template which contains content specific to a particular business type. The value entered for this field must be from a predefined list created by SAP Ariba.
<code>autoStartSE</code>	No	true/false	Default value is "false". Value of "false" creates the vendor record only. Value of "true" creates the vendor record and triggers sending the trading relationship request (TRR) email to the vendor.

Field	Required	Type	Description
collaborationType	No	String 256	Specifies the type of business that the trading partner is engaged in. For example, fulfillment or logistics. There are two possible values for <code>collaborationType</code>: - AN_Fulfillment - S4HANA_ProductSourcing Note If you do not pass a value for <code>collaborationType</code>, <code>AN_Fulfillment</code> is used as the default. The supplier that is created will have a fulfillment relationship with the buyer and they will have the Supplier role and permissions.
collaborationRole	No	String 256	The SAP Business Network roles and permissions assigned to the trading partner depend on the <code>collaborationRole</code> value passed by the API. There are two possible values for <code>collaborationRole</code>: - Supplier - LogisticsService Provider
buyerInfo.buyerAnid	Yes	AN01999999999	This is the Ariba Network ID (ANID) of the buyer for which the vendor record is being created.

Field	Required	Type	Description
accountType	No	String 256	Specifies the type of account the trading partner is invited to create. There are two possible values for accountType: • FULL - to create an enterprise account • LIGHT - to create a standard account Note accountType is only applicable when creating vendors with the AN_Fulfillment collaborationType.

Note

Each **collaborationType** requires a specific **collaborationRole** as follows:

collaborationType	collaborationRole
AN_Fulfillment	Supplier
S4HANA_ProductSourcing	Supplier

Note

SAP S/4HANA for supplier quotation management (SAP S/4HANA for product sourcing) buyers can send a Supplier Invite API request with an existing vendor to suppliers who already have an established **AN_Fulfillment** **collaborationType**, so as to assign them an additional **collaborationType** of **S4HANA_ProductSourcing**.

Note

The **autostartSE** field is not a required field. If this field is not included in the API body, by default the client application requests only that the vendor is created and added to the vendor list in SAP Business Network. In this case, if you want to send a trading relationship request to the vendor you must do this manually by selecting **Actions > Start Enablement** beside the vendor record at **Supplier Enablement > Manage Vendors**.

Supplier Invite API body example:

```
{
```

```

"companyName": "Acme GmbH",
"vendorId": "0001000101",
"autoStartSE": true,
"welcomeLetterEmail": "h.mueller@acme.com",
"welcomeLetterMode": "email",
"preferredLanguage": "German",
"companyAddress": {
  "isoCountryCode": "DE",
  "postalCode": "81667",
  "isoStateCode": "DE-BY",
  "street1": "ABC Strasse 55",
  "city": "Munich"
},
"enablementTrack": "Catalog, PO, Invoice",
"contactFirstName": "Hans",
"contactLastName": "Mueller",
"collaborationType": "S4HANA_ProductSourcing",
"collaborationRole": "Supplier",
"buyerInfo": {
  "buyerAnid": "AN02000423989"
}
}

```

For more API examples, see the SAP Ariba Developer Portal discovery page for this API.

Error Messages Returned by the Supplier Invite API

Use this information to troubleshoot your queries to the Supplier Invite API.

Error Code	Error Message	Description
400	The API key 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.
400	Error while matching supplier	A validation error occurred while creating the vendor.
402	Error while creating vendor	An error occurred while creating the vendor record.
403	Buying Organization ANID is a required field	You must include a value for the Buying Organization ANID.
404	Either Vendor City or Vendor Postal code is required	You must include a value for at least one of Vendor City or Vendor Postal Code.
409	Invalid order routing type {0}. Enter email, html, or fax	You entered an invalid order routing type. Enter email, html, or fax.
410	The following fields can be present only if {0} is present: {1}, {2}, {3}	The following fields can be present only if vendorId is present: siteld, siteAuxId, legacyPrivateld.

Error Code	Error Message	Description
411	Supplier group {0} does not exist	The supplier group does not exist.
412	One of the following is a required field: {0} or {1}	One of the following is a required field: vendorId or taxId.
413	Welcome letter email is required if the welcome letter mode is email	You must include an email address for the welcome letter recipient if the welcome letter mode is email.
414	Welcome fax area code is required if the welcome letter mode is fax	You must include a fax number area code for the welcome letter recipient if the welcome letter mode is fax.
415	Welcome fax country code is required if the welcome letter mode is fax	You must include a fax number country code for the welcome letter recipient if the welcome letter mode is fax.
416	Welcome fax number is required if the welcome letter mode is fax	You must include a fax number for the welcome letter recipient if the welcome letter mode is fax.
417	Invalid country code {0}. Enter valid two-digit country code	
418	Invalid country code {0}. Enter valid three-digit country code	
419	Invalid country code {0}. Enter valid two-digit or three-digit country code	
420	Error while starting supplier enablement	An error occurred while starting supplier enablement.
421	businessType {0} should be one of [{1}]	You must enter the correct business type for the supplier.
422	No ERP system ID mentioned for production buyer	You must include the ERP system ID for the production buyer.
423	Invalid ERP system ID mentioned for production buyer	You must include the correct ERP system ID for the production buyer.
426	Vendor already exists with values '{vendorId={0}, siteId={1}, siteAuxId={2}, systemId={3}}'	A vendor with this vendor ID already exists on SAP Business Network.
427	Error while writing app log	An error occurred when writing the audit log to the database table.

Error Code	Error Message	Description
428	Request header X-ARIBA-NETWORK-ID "{0}" does not match the one in request body	This is an authorization error. The X-ARIBA-NETWORK-ID must be the buyer ANID, which must match the buyerANID in the request body.
429	Authorized org "{0}" cannot create vendor for another buyer "{1}"	In the case of basic authentication, the system checks that the ANID in the credential matches the one in the request body.
430	service provider "{0}" is not authorized to send a request on behalf of the buyer "{1}"	This happens when a provider who doesn't subscribe to the service tries to create a vendor on behalf of a buyer. Only authorized service providers are allowed to use the invite service.
431	Cannot create or update vendor for private supplier (ANID:{0})	The supplier ANID in the request body cannot be a private supplier.
432	Invalid ANID: {0}. ANID does not match a supplier	The ANID that you entered does not match any supplier on SAP Business Network.
433	Authorized org must be a buyer or provider	Suppliers cannot be authorized to create a vendor. Only SAP Business Network buyers and authorized SAP Business Network providers are allowed to use the Invite API.
434	Invalid value specified for wave	Waves are used to group vendors for mass onboarding. Examples of valid wave values: Wave01, Wave02, Wave12 When the number of digits in the wave number is ≥ 3 the wave number cannot start with '0'. For example, "Wave002" would be an invalid wave. The digit part of a wave number should follow the pattern 00, 01...99, 100, 101, and so forth.

Error response example:

```
{
  "status": 400,
  "error": "Bad Request",
  "exception": "InviteServiceException",
  "message": "Supplier group group1 does not exist",
  "errorCode": 201
}
```

API-Specific Disclaimers and Legal Information

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