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Risk Exposure API

SAP Ariba Supplier Risk

SAP Ariba Supplier Risk, base edition

SAP Ariba APIs

SAP Ariba Developer Portal



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Risk Exposure API

This guide is for application developers who want to get their suppliers' overall and category risk exposure from SAP Ariba Supplier Risk so they can integrate it into other SAP Ariba applications.

A supplier's risk exposure is a value that designates the supplier's level of risk. Buyers monitor a supplier's risk exposure to make informed business decisions.

→ Tip

Risk exposure can be integrated into your buying processes using the Risk Exposure API. For example, you can integrate a supplier's risk exposure and category risk exposure into purchase requests and purchase orders as a process validation step. This information can help you make more informed purchasing decisions.

📘 Note

This guide only contains information about the active version of this API. To see which version of this API is the active version, see the version history.

This guide applies to:

- SAP Ariba Developer Portal
- SAP Ariba APIs
- SAP Ariba Supplier Risk
- SAP Ariba Supplier Risk, base edition

Endpoints Included in the Risk Exposure API

The Risk Exposure API includes the following endpoints:

Endpoint	Description
GET /suppliers/{smVendorId}/exposures	Retrieves the overall residual risk and inherent risk exposure for a single supplier monitored in SAP Ariba Supplier Risk.
POST /suppliers/exposureRequest/pages/{pageNo}	Retrieves the overall residual risk and inherent risk exposure for up to 500 suppliers monitored in SAP Ariba Supplier Risk. The paginated results include 100 suppliers per page.

📘 Note

When the **Enable custom risk categories** parameter (`Application.SR.Risk.EnableCustomRiskCategories`) is enabled, the API returns data for your custom risk categories. When the parameter is disabled, the API automatically returns data for the default risk categories: Environmental & Social, Financial, Operational, and Regulatory & Legal.

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](#).
- Before getting the risk exposure, you must determine the SM vendor IDs or ERP vendor IDs for all relevant suppliers. You can use SM vendor IDs and ERP vendor IDs in the same API call to retrieve multiple suppliers' risk exposure.

Note

The ERP vendor ID can only be used in the multiple suppliers retrieval endpoint.

Related Guides

[Supplier Data API with Pagination](#)

[Risk Category Information API for Supplier Risk Exposure](#)

[Supplier Risk Engagements API](#)

[Setting Up SAP Ariba Supplier Risk](#)

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

Related Information

[Running the Risk Exposure Summary Report](#)

Workflow for Risk Exposure Data in the Risk Exposure API

Use the Risk Exposure API to retrieve the overall and category risk exposure for suppliers monitored in SAP Ariba Supplier Risk. The risk exposure can then be integrated into other SAP Ariba applications.

1. If not already done, a customer administrator or a member of the **Supplier Risk Manager** group completes the risk exposure configuration in SAP Ariba Supplier Risk. Refer to [Setting Up SAP Ariba Supplier Risk](#) for more information on configuring risk exposure.
2. The customer administrator identifies the SM vendor ID or ERP vendor ID for each desired supplier. The ID is used to map suppliers to their risk exposure data. Refer to [Supplier Data API with Pagination](#) in the SAP Ariba Developer Portal.

3. The client application sends a request for the overall and category risk exposure for the SM vendor ID or ERP vendor ID in the specified system realm of SAP Ariba Supplier Risk.
4. The response includes the overall and category risk exposure for the specified supplier or suppliers.

Retrieving a Single Supplier's Risk Exposure Using the Risk Exposure API

Use these steps to retrieve the overall, and category risk exposure for a single supplier that you monitor in SAP Ariba Supplier Risk. You can then integrate the information into other SAP Ariba applications.

Prerequisites

Note

If feature ARI-16780: Custom Risk Categories isn't enabled you can still use **Version v1 (Deprecated)** of the API until custom categories is enabled for everyone in Q1 2025.

- If not already done, a customer administrator or a member of the **Supplier Risk Manager** group completes the risk exposure configuration in SAP Ariba Supplier Risk. Refer to [Topics About Configuring Risk Exposure](#) for more information on configuring risk exposure.
- For each supplier, determine the SM vendor ID. Refer to [Supplier Data API with Pagination](#) in the SAP Ariba Developer Portal.

To export a list of the suppliers and SM vendor IDs, do the following:

1. From the dashboard, navigate to **SM Administration**. Available paths depend on the groups your user belongs to.
 - In sites that include **SM Administration**, members of the **SM Ops Administrator**, **SM ERP Admin**, or **Customer Administrator** group can select **Manage** > **SM Administration**.
 - Members of the **Supplier Risk Manager** group can access **SM Administration** from the SAP Ariba Supplier Risk dashboard: click the gear-shaped settings icon, then choose **Import data** > **Link to SM admin**.

Note

Members of the **Supplier Risk Manager** group must also be members of the **SM Ops Administrator** group.

2. Click **Data import or export**.
3. Depending whether you use SLP or SIPM, from the **File type** dropdown choose one of the following:
 - If you use SLP, choose **Suppliers**.
 - If you use SIPM, choose **Suppliers from Sourcing**.
4. Click **Export** to generate a CSV file. You can find the SM vendor ID for each vendor in this file.

Context

The Risk Exposure API gets the result of the overall risk exposure and the category risk exposure for suppliers monitored in SAP Ariba Supplier Risk. The Risk Exposure API doesn't include risk incidents.

Note

The Risk Exposure API doesn't push changes to the risk exposure levels for overall and category into SAP Ariba Supplier Risk.

The risk exposure from the Risk Exposure API is based on the below thresholds resulting from your risk exposure configurations. The thresholds are used to determine the level of risk for that contributing factor. Each level of risk has an assigned value.

- Unknown
There isn't enough information to calculate the risk exposure, or there are no recent updates to the contributing factors for calculating the current risk exposure.
- Low
The supplier's level of risk exposure is low.
- Medium
The supplier's level of risk exposure is medium.
- High
The supplier's level of risk exposure is high.

This API endpoint retrieves overall and category risk exposure for only one supplier per request.

Note

The risk exposure in SAP Ariba Supplier Risk could be different than the risk exposure you viewed in other applications. The risk exposure in the other applications is dependent on the frequency of the data pull from SAP Ariba Supplier Risk. The most recent risk exposure is in SAP Ariba Supplier Risk.

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 administrator identifies the SM vendor ID and system realm for the supplier.
2. The client application sends a request that passes the locale (optional), system realm, and the SM vendor ID using the GET `/suppliers/{smVendorId}/exposures` endpoint.

```
GET {{runtime_url}}/suppliers/{smVendorId}/exposures
{
  "name": "realm",
  "type": "string",
  "required": true,
```

```

    "in": "query",
    "description": "Identify the requested realm. For example, realm =
s4All-3."
  },
  {
    "name": "smVendorId",
    "type": "string",
    "required": true,
    "in": "path",
    "description": "The supplier you are retrieving risk exposure
history for.",
    "default": "S12345678"
  }
}

```

Table 1: Request Parameters

Name	Required?	Description
Accept-Language	No	The locale used to fetch the translated entity name. The default locale is en. Two locales can be specified as comma separated values. The second locale corresponds to the fallback locale. For more information, refer to Locale Settings for Risk Exposure API Responses [page 13].
realm	Yes	The system realm where the supplier and risk exposure exist.
smVendorId	Yes	The supplier you want the risk exposure for.

Results

On success, the response includes a 200 success code.

The response returns the results that match the criteria in the **exposures** block.

```

{
  "realm": "s4All-3",
  "smVendorId": "S12345678",
  "erpVendorId": "TEST-1234-321",
  "sourceSystem": "SAP",
  "exposureId": 12345,
  "exposureCalculationDate": "2022-11-21",
  "exposure": 60,
  "exposureLevel": 3,
  "exposureLevelName": "MEDIUM",
  "localizedExposureLevelName": "Medium",
  "riskCategoryExposures": [
    {
      "name": "FINANCIAL",
      "localizedName": "Financial",
      "weight": 25,
      "exposure": 30,

```

```

"exposureLevel": 60,
"exposureLevelName": "MEDIUM",
"localizedExposureLevelName": "Medium"
},
"responseTimeStamp": "2022-11-21",
"exposureConfigurationVersion": "33"
}

```

Table 2: Risk Exposure API Results

Properties	Definition
Realm	The realm where the risk exposure information was requested.
SM vendor ID	The supplier's ID in the SAP Ariba Supplier Risk system.
ERP vendor ID	The supplier's ID in the ERP system.
Source system	The system where the information was requested.
Exposure ID	A unique identifier created every time the risk exposure is calculated.
Exposure calculation date	The date the exposure was last calculated for the supplier.
Exposure	The overall risk exposure for the supplier. The value is a number between 1–100.
Exposure level	The value of the supplier's overall risk exposure level. A value range is assigned to each risk exposure level for high, medium, and low.
Exposure level name	The name of the supplier's overall risk exposure level. The overall level of risk exposure is high, medium, low, or unknown. Unknown risk exposure is due to lack of information for calculation or lack of recent updates.
Localized exposure level name	The translated name of the supplier's overall risk exposure level.
Risk category name	The name of the risk category.
Risk category localized name	The translated name of the risk category.
Risk category weight	The weight value of the risk category.
Risk category exposure	The category risk exposure for the supplier. Each category can have a value of 1–100.
Risk category exposure level	The value of the supplier's risk exposure level for the risk category. A value range is assigned to each risk exposure level for high, medium, and low.
Risk category exposure level name	The name of the supplier's exposure level for the risk category. The risk category level of risk exposure is high, medium, low, or unknown. Unknown risk exposure is due to lack of information for calculation or lack of recent updates.
Risk category localized exposure level name	The translated name of the risk category exposure level.
Response timestamp	The time when the information was retrieved from the system.
Exposure configuration version	The version of your risk exposure configuration that was used for the risk exposure information retrieved from the system.

On failure, the response includes an error message. Refer to [Risk Exposure API Error Messages \[page 14\]](#) for a list of possible errors.

Retrieving Multiple Suppliers' Risk Exposure Using the Risk Exposure API

Use these steps to retrieve the overall and category risk exposure for up to 500 suppliers monitored in SAP Ariba Supplier Risk. You can then integrate the information into other SAP Ariba applications.

Prerequisites

Note

If feature ARI-16780: Custom Risk Categories isn't enabled you can still use **Version v1 (Deprecated)** of the API until custom categories is enabled for everyone in Q1 2025.

- If not already done, a customer administrator or a member of the **Supplier Risk Manager** group completes the risk exposure configuration in SAP Ariba Supplier Risk. Refer to [Topics About Configuring Risk Exposure](#) for more information on configuring risk exposure.
- For each supplier, determine the SM vendor ID or ERP vendor ID. You can use SM vendor IDs and ERP vendor IDs in the same API call.

Context

The Risk Exposure API gets the result of the overall risk exposure and category risk exposure for all custom categories, for the suppliers monitored in SAP Ariba Supplier Risk. The Risk Exposure API doesn't include risk incidents.

Note

The Risk Exposure API doesn't push changes to the risk exposure levels for overall and category into SAP Ariba Supplier Risk.

The paginated results include 100 suppliers per page.

The risk exposure from the Risk Exposure API is based on the below thresholds resulting from the risk exposure configurations. The thresholds are used to determine the level of risk for that contributing factor. Each level of risk has an assigned value.

- Unknown
There isn't enough information to calculate the risk exposure, or there are no recent updates to the contributing factors for calculating the current risk exposure.

- Low
The supplier's level of risk exposure is low.
- Medium
The supplier's level of risk exposure is medium.
- High
The supplier's level of risk exposure is high.

📌 Note

The risk exposure in SAP Ariba Supplier Risk could be different than the risk exposure you viewed in other applications. The risk exposure in the other applications is dependent on the frequency of the data pull from SAP Ariba Supplier Risk. The most recent risk exposure is in SAP Ariba Supplier Risk.

📌 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 administrator identifies the SM vendor IDs or ERP vendor IDs and system realm for the suppliers.
2. The client application sends a request that passes the locale (optional), number of suppliers per page, realm, SM vendor IDs, ERP vendor IDs, source system, and page number using the `POST /suppliers/exposureRequest/pages/{pageNo}` endpoint.

```
POST {{runtime_url}}/suppliers/exposureRequest/pages/{pageNo}
{
  "smVendorIds": [
    "S123456",
    "S234567"
  ],
  "erpVendorIds": [
    "ABC123",
    "EFG456"
  ],
  "sourceSystem": "SAP"
}
```

Table 3: Request Parameters

Name	Required?	Description
Accept - Language	No	The locale used to fetch the translated entity name. The default locale is en. Two locales can be specified as comma separated values. The second locale corresponds to the fallback locale. For more information, refer to Locale Settings for Risk Exposure API Responses [page 13].
maxPageSize	No	The number of suppliers per page.
realm	Yes	The system realm where the supplier and risk exposure exist.
smVendorIds	Yes, unless you're using erpVendorIds .	The supplier you want the risk exposure for.
erpVendorIds	Yes, unless you're using smVendorIds .	The supplier you want the risk exposure for.
sourceSystem	Yes, if you're using erpVendorIds	The system where the information is being requested.
pageNo	Yes	The beginning page number for the next page of output.

Results

On success, the response includes a 200 success code.

The response returns paginated results with the suppliers, their overall exposure, and their risk category exposures.

```
{
  "suppliers": [
    {
      "realm": "myRealm",
      "smVendorId": "S12345678",
      "erpVendorId": "98765abcde",
      "sourceSystem": "SAP",
      "exposureId": 12345,
      "exposureCalculationDate": "2023-02-21",
      "exposure": 60,
      "exposureLevel": 3,
      "exposureLevelName": "MEDIUM",
      "localizedExposureLevelName": "Medium",
      "riskCategoryExposures": [
        {
          "name": "FINANCIAL",
          "localizedName": "Financial",
          "weight": 25,
          "exposure": 30,
          "exposureLevel": 60,

```

```

        "exposureLevelName": "MEDIUM",
        "localizedExposureLevelName": "Medium"
    },
    {
        "name": "BANKING",
        "localizedName": "Banking",
        "weight": 20,
        "exposure": 25,
        "exposureLevel": 60,
        "exposureLevelName": "MEDIUM",
        "localizeExposureLevelName": "Medium"
    }
],
"responseTimeStamp": "2023-02-28 10:55:04.000000248",
"exposureConfigurationVersion": "33"
}
]
}

```

Table 4: Risk Exposure API Results

Properties	Definition
Realm	The realm where the risk exposure information was requested.
SM vendor ID	The supplier's ID in the SAP Ariba Supplier Risk system.
ERP vendor ID	The supplier's ID in the ERP system.
Source system	The system where the information was requested.
Exposure ID	A unique identifier created every time the risk exposure is calculated.
Exposure calculation date	The date the exposure was last calculated for the supplier.
Exposure	The overall risk exposure for the supplier. The value is a number between 1–100.
Exposure level	The overall risk exposure level for the supplier. The overall level of risk exposure is high, medium, low, or unknown. Unknown risk exposure is due to lack of information for calculation or lack of recent updates.
Exposure level name	The name of the supplier's overall risk exposure level. The overall level of risk exposure is high, medium, low, or unknown. Unknown risk exposure is due to lack of information for calculation or lack of recent updates.
Localized exposure level name	The translated name of the supplier's overall risk exposure level.
Risk category name	The name of the risk category. For example, regulatory and legal, environmental and social, operational, or financial.
Risk category localized name	The translated name of the risk category.
Risk category weight	The weight value of the risk category.
Risk category exposure	The category risk exposure for the supplier. Each category can have a value of 1–100.

Properties	Definition
Risk category exposure level	The supplier's level of risk exposure for the risk category. The risk category level of risk exposure is high, medium, low, or unknown. Unknown risk exposure is due to lack of information for calculation or lack of recent updates.
Risk category exposure level name	The name of the supplier's exposure level for the risk category. The risk category level of risk exposure is high, medium, low, or unknown. Unknown risk exposure is due to lack of information for calculation or lack of recent updates.
Risk category localized exposure level name	The translated name of the risk category exposure level.
Response timestamp	The time when the information was retrieved from the system.
Exposure configuration version	The version of your risk exposure configuration that was used for the risk exposure information retrieved from the system.

On failure, the response includes an error message. Refer to [Risk Exposure API Error Messages \[page 14\]](#) for a list of possible errors.

Locale Settings for Risk Exposure API Responses

When you set the `locale` request header, the attributes that support localization have the values translated in the response. You can set the `locale` query parameter for the following endpoints:

- `GET /suppliers/{smVendorId}/exposures`
- `POST /suppliers/exposureRequest/pages/{pageNo}`

Note

This topic is applicable if feature ARI-16780: Custom Risk Categories is enabled.

Getting Supported Locale

Members of the **Customer Administrator** group can obtain the supported locale by exporting the supported locale codes used in your site using the **Export Locale (CSV)** data export task.

To get the supported locale, perform the following steps:

1. Log in as an administrator.
2. On the dashboard, select **Manage > Administration**.
3. Choose **Integration Manager > Data Import/Export**.
4. Click the **Export** tab.
5. Click **Export** for the **Export Locale (CSV)** task.
The **Export Locale (CSV)** popup opens.
6. In the **Specify an adapter source** dropdown, choose **AribaManaged**, and click **OK**.

The supported locale codes are listed in the **UniqueName** column in the exported CSV file.
You can use the values in the **UniqueName** column as the `locale` query parameter.

Risk Exposure API Error Messages

Use this information to troubleshoot your queries to the Risk Exposure API.

Error Code	Message	Description
400	The apiKey passed in the request is not valid.	The API key passed in the query headers doesn't match the API key in the OAuth token.
400	The apiKey is missing in the header.	The API key passed in the query headers is missing. Add a valid API key in the header request.
400	The apiKey provided in the header does not match with the apiKey in the token.	The API key passed in the query header doesn't match the API key in the token. Change the API key in the query header to match the API key in the token.
400	Invalid or missing request parameters: sm_vendor_id or realm	Your request has an incorrect or missing SM vendor ID or realm. Check to make sure the specified realm name and smVendorID are correct, then resubmit your request.
400	Realm YYY in the request does not match with realms in the token.	The specified realm in your request doesn't match the list of realms from the token. Change the realm in your request to one of the available realms in the token.
400	Realm YYY in the request does not match with realms in your system.	The specified realm in the request isn't available in your SAP Ariba Supplier Risk system.
400	Check the realm in the request. The realm value should not be null or empty.	The specified realm in your request can't be empty. Add the realm in your request.
401	Unauthorized	Unauthorized request. Either the access token is expired or incorrect, or the realm is invalid or missing.
429	Rate limit error	You've exceeded the maximum permitted query rate. Refer to the developer portal discovery page for this API for the applicable query rates.
500	Internal server error	Error retrieving exposure data. The exposure data couldn't be retrieved for the supplier. This could be due to connection issues or the server is down. Try again after a while.

Error Code	Message	Description
504	Gateway Time-out	The server timeout time has been exceeded, possibly due to network traffic or reliability issues. Retry your query.

Version History for the Risk Exposure API

Please use the active version of the Risk Exposure API.

ⓘ Note

If feature ARI-16780: Custom Risk Categories isn't enabled, you can still use version v1 (deprecated) of the API.

API Version	Status	As of Release
v3	Active	SAP Ariba 2602
v2	Deprecated	SAP Ariba 2408
v1	Deprecated	SAP Ariba 2408

Related Information

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

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

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Other Ariba product solutions are protected by one or more of the following patents:

U.S. Patent Nos. 6,199,050, 6,216,114, 6,223,167, 6,230,146, 6,230,147, 6,285,989, 6,408,283, 6,499,018, 6,564,192, 6,584,451, 6,606,603, 6,714,939, 6,871,191, 6,952,682, 7,010,511, 7,047,318, 7,072,061, 7,084,998; 7,117,165; 7,225,145; 7,324,936; 7,536,362; 8,364,577; and 8,392,317. Patents pending.

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