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Integration Event Monitoring Query API for Procurement

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Integration Event Monitoring Query API for Procurement

This guide is for a developer seeking to use the Integration Event Monitoring Query API for Procurement with SAP CALM to monitor integration event status information.

Developers can create a client application on the SAP Ariba Developer Portal and configure SAP CALM to connect to this application and retrieve integration monitoring information.

This guide applies to:

- SAP Ariba APIs
- SAP Ariba Developer Portal
- SAP Ariba Buying and Invoicing
- SAP Ariba Buying
- SAP Ariba Invoice Management
- SAP Ariba Contracts
- SAP Ariba Sourcing
- SAP Ariba Supplier Lifecycle and Performance
- SAP Ariba Supplier Information and Performance Management (new architecture)
- SAP Ariba Strategic Sourcing Suite
- SAP Business Network

Related guides

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

About the Integration Event Monitoring Query API for Procurement

The Integration Event Monitoring Query API for Procurement is used with SAP CALM to monitor integration event status information for integration message flows between SAP Ariba solutions and SAP S/4HANA Cloud Public Edition. Customers can create a client application on the SAP Ariba Developer Portal to filter and retrieve the integration events.

The Integration Event Monitoring Query API for Procurement allows SAP CALM to control how the stored integration event status information is retrieved and presented, using appropriate OData filters and pagination parameters. It returns data as a JSON string. It can handle large volumes of data as well as high-frequency data collection, of up to 5-minute intervals, providing near real-time monitoring and alerting. It uses SAP Passport as the correlation mechanism to ensure that the integration events can be monitored end-to-end. To support this, all transported data must include SAP Passport information. SAP CALM has dashboards for each of the integrated process flows of SAP Ariba solutions and SAP Business Network with SAP S/4HANA Cloud Public Edition to monitor the processing status of the related business messages.

Note

Integration monitoring data is stored for a period of seven days from the time the integration event is added to the integration monitoring database. This API can be used to retrieve monitoring data only for this seven-day period.

This API includes the following endpoints:

GET /products/{productid}/events	This endpoint retrieves a list of all available integration events for a particular product type. The tenantID and time period for which events need to be retrieved are passed as filter parameters.
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Prerequisites

Integration monitoring using the Integration Event Monitoring Query API for Procurement must be configured in your SAP Ariba solution. Your administrator must turn on the **Enable version 2 of the Integration monitoring APIs** (`Application.Base.EnableIntegrationEventMonitoringAPI`) parameter to enable Integration monitoring API v2. For more information, see [Enable version 2 of the Integration monitoring APIs](#).

[Workflow for Integration Event Monitoring Query API \[page 5\]](#)

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Workflow for Integration Event Monitoring Query API

The workflow for the Integration Event Monitoring Query API includes the following high-level steps.

1. The SAP Ariba central log store stores the integration events generated when different connected solutions communicate with each other.
2. The client application posts a request for retrieving all available integration events, passing the tenantID and the time period for which the events need to be retrieved in the filter parameters.
3. Optional. The client application can request for specific events by specifying the appropriate filters.

Retrieving Integration Events Using the Integration Event Monitoring Query API

Use this procedure to retrieve integration events using the Integration Event Monitoring Query API.

Context

The following steps describe the process to retrieve integration events using the Integration Event Monitoring Query API for SAP Ariba solutions and 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.

Restriction

The Integration Event Monitoring Query API for Procurement only allows retrieval of data from the SAP Integration Suite, managed gateway for spend management and SAP Business Network US data center for the SAP Integration Suite, managed gateway for spend management and SAP Business Network EU data center users.

Request header parameters

The following header is required for request validation:

Header name	Mandatory	Description
apikey	Yes	The API key is validated against the token provided in the request header.

Procedure

1. The client application submits the request for a list of all integration events, using the `GET / products/{productid}/events` endpoint. Specifying the `tenantID` and the time period for which the events need to be retrieved in the filter parameters is mandatory.

```
GET {{runtime_url}}/products/{productid}/events?$count={count}&$filter=(tenantId eq {tenantID}) and (eventTimeStamp gt {timestamp}) and (eventTimeStamp lt {timestamp})
```

productid The unique identifier of the SAP Ariba solutions to retrieve events specific to the solution. The supported `product ID` values are as follows:

- Buyer
- Sourcing
- AN
- CIG
- MDNI
- SLP

The response contains a list of integration events.

2. Optional. The client application requests for specific events by specifying the appropriate filters using the `GET / products/{productid}/events` endpoint.

```
GET {{runtime_url}}/products/{productid}/events?$count={count}&$filter=(tenantId eq {tenantID}) and (eventTimeStamp gt {timestamp}) and (eventTimeStamp lt {timestamp})
```

\$filter The OData filter criteria to restrict the dataset. It must have three filters which specify the `tenantid` and the time interval, with the format `intervalStartTime ge datetime` and `intervalEndTime lt datetime`. The time must be in UTC. Other filters are optional.

\$top The number of records to be returned in the response.

\$skip The number of records to be skipped from the beginning of the search results.

\$count The total number of entries available for collection when the filters are applied, and the number of entries contained in a particular response. Includes count in the output along with data, if set to true.

The response contains a list of integration events.

Using the Integration Event Monitoring Query API

This topic describes some common use case and scenarios in which the Integration Event Monitoring Query API is used.

Using the Different Filters

Search with data only

Sample query filter:

```
GET /products/AN/events?$filter=(tenantId eq AN12345678911) and (eventTimeStamp gt '2021-08-09T00:00:00.000Z') and (eventTimeStamp lt '2021-08-10T00:00:00.000Z')
```

Search with count and data

Sample query filter:

```
GET /products/AN/events?$count=true&$filter=(tenantId eq AN12345678911) and (eventTimeStamp gt '2021-08-09T00:00:00.000Z') and (eventTimeStamp lt '2021-08-10T00:00:00.000Z')
```

Using pagination

Sample query filter:

```
GET /products/AN/events?$count=true&$top=10&$skip=5&$filter=(tenantId eq AN12345678911) and (eventTimeStamp gt '2021-08-09T00:00:00.000Z') and (eventTimeStamp lt '2021-08-10T00:00:00.000Z')
```

Using optional filters on remaining fields

Sample query filter:

```
GET /products/AN/events?$count=true&$top=10&$skip=5&$filter=(tenantId eq AN12345678911) and (eventTimeStamp gt '2021-08-09T00:00:00.000Z') and (eventTimeStamp lt '2021-08-10T00:00:00.000Z') and status eq 'Successful'
```

Sample response:

```
{
  {
    "totalEventCount": 1,
    "eventCount": 1,
    "normalizedEvents": [
      {
        "category": "AribaBuyerIntegrationMessages",
        "sourceEventId": "a0a2990c-2eb8-4458-8a95-46b7bdbc6678",
        "eventTimeStamp": "2021-08-10T06:35:04.055Z",
        "direction": "INBOUND",
        "status": "Succeeded",
        "statusGroup": "SUCCESSFUL",
        "statusText": "Status Text",
        "correlationData": {
          "passport": {
            "transactionId": "22554d96-1d2d-4e65-8aba-b306a0be",
            "connectionId": "79640fa7-448a-465f-8c4c-e2d8421b7a30",
            "connectionCounter": 1,
            "componentName": "SOAP Client",
            "componentType": 1,
            "previousComponent": "",
            "service": 1,
            "action": "CWCreate",
            "actionType": 4,
            "rootContextId": "abfe461b-4cd6-4454-90c3-3ac049ee96b1"
          }
        }
      },
      "applicationData": [
```

```

    {
      "paramId": "AppName",
      "paramValue": "Ariba:Buyer",
      "displayText": "Application Name",
      "valueType": "SIMPLE",
      "classification": "CONTEXT",
      "isPersonalData": false,
      "isSensitiveData": false,
      "packageNo": 0,
      "sequenceNo": 0
    },
    {
      "paramId": "ComponentName",
      "paramValue": "Ariba:Sourcing:Contracts",
      "displayText": "Component Name",
      "valueType": "SIMPLE",
      "classification": "CONTEXT",
      "isPersonalData": false,
      "isSensitiveData": false,
      "packageNo": 0,
      "sequenceNo": 0
    },
    {
      "paramId": "IntegrationChannel",
      "paramValue": "WEBSERVICE",
      "displayText": "Integration Channel",
      "valueType": "SIMPLE",
      "classification": "CONTEXT",
      "isPersonalData": false,
      "isSensitiveData": false,
      "packageNo": 0,
      "sequenceNo": 0
    },
    {
      "paramId": "PurchaseContractStatusUpdateRequestImport_Header",
      "paramValue": "{\"ContractId\":\"CW2201\"}",
      "displayText":
"PurchaseContractStatusUpdateRequestImport_Header",
      "valueType": "JSON",
      "classification": "PAYLOAD",
      "isPersonalData": false,
      "isSensitiveData": false,
      "packageNo": 0,
      "sequenceNo": 0
    }
  ],
  "productType": "Buyer",
  "tenantId": "sss"
}

```

Related Information

[Retrieving Integration Events Using the Integration Event Monitoring Query API \[page 5\]](#)

Error Messages Returned by the Integration Event Monitoring Query API

Use this information to troubleshoot your queries to the Integration Event Monitoring Query API.

Error Messages Returned by the GET /products/{productid}/events Query

Error Code	Message	Description
500 INTERNAL_SERVER_ERROR	<pre>{ "code": "INTERNAL_SERVER_ERROR", "message": "Failed to authenticate, OAUTH server down !!!" }</pre>	Oauth server is unreachable.
500 INTERNAL_SERVER_ERROR	<pre>{ "code": "INTERNAL_SERVER_ERROR", "message": "Failed to authenticate, OAUTH server down !!!" }</pre>	Invalid operator in <code>\$filter</code> expression. Example: <code>tenantId eq 'sss' and eventTimeStamp eq 2020-03-20T12:53:21.977Zc xor Status eq 'Success'</code>
500 INTERNAL_SERVER_ERROR	<pre>{ "code": "INTERNAL_SERVER_ERROR", "message": "Invalid OData filter expression, unknown operator/ expression not complete" }</pre>	Expression in <code>\$filter</code> parameter is in- complete. Example: <code>tenantId eq 'sss' and eventTimeStamp eq 2020-03-20T12:53:21.977Zc and</code>
500 INTERNAL_SERVER_ERROR	<pre>{ "code": "INTERNAL_SERVER_ERROR", "message": "Invalid OData filter expression, unknown filter attribute" }</pre>	Unknown attribute in <code>\$filter</code> expres- sion. Example: <code>tenantId eq 'sss' and eventTimeStamp eq 2020-03-20T12:53:21.977Zc and xxxx eq 'success'</code>
500 INTERNAL_SERVER_ERROR	<pre>{ "code": "INTERNAL_SERVER_ERROR", "message": "DB is down / Unable to access" }</pre>	Database server is unreachable.

Error Code	Message	Description
400 Bad Request	<pre>{ "timestamp": "2020-03-27T08:48:45.433+0000", "status": 400, "error": "Bad Request", "message": "Missing request header 'Authorization' for method parameter of type String", "path": "/" IntegrationMonitoringPullAPI/products/ BUYER/events" }</pre>	Authorization header is not present.
400 Bad Request	<pre>{ "timestamp": "2020-03-27T08:47:59.535+0000", "status": 400, "error": "Bad Request", "message": "Required String parameter '\$filter' is not present", "path": "/" IntegrationMonitoringPullAPI/products/ BUYER/events" }</pre>	Query parameter \$filter is not present.
401 UNAUTHORIZED	<pre>{ "code": "UNAUTHORIZED", "message": "Invalid Access Token" }</pre>	OAuth token is invalid or has expired.
401 UNAUTHORIZED	<pre>{ "code": "UNAUTHORIZED", "message": "Invalid Access Token" }</pre>	Invalid tenantId in the \$filter query parameter. Example: tenantId eq 'invalidTenantId'

Version History for the Integration Event Monitoring Query API for Procurement

Please use the active version of the Integration Event Monitoring Query API for Procurement.

API version	Status	As of release
1	Active	N/A

Related Information

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

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