



SAP Fieldglass 

API Reference | PUBLIC
SAP Fieldglass
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Audit Trail API Integration

Technical Specifications Guide

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1 SAP Fieldglass Audit Trail API

The SAP Fieldglass Audit Trail API resource allows clients who use integration monitoring utilities the ability to retrieve and display specific audit trail details associated to the data being integrated and transferred between the external system and the SAP Fieldglass application.

Introduction

The JSON-based REST API framework of the Audit Trail API exposes integration audit trail information that provides visibility into errors and exceptions that occur in the processing and/or delivery of an integration element needing support and resolution. Once the API integration is configured, it provides overall integration monitoring, management, and auditability.

This document explains the coding specifications required to integrate the SAP Fieldglass Audit Trail details using the SAP Fieldglass REST API. The topics describe the methods, header elements, parameters, a sample API call and response, transfer method and setup, and data specifications (header and context level). The API returns all upload, download, and subscription activity.

SAP Fieldglass REST APIs use the OAuth 2.0 protocol for authentication and authorization. SAP Fieldglass supports common OAuth 2.0 scenarios such as those for web server, installed, and client-side applications.

For detailed information on how to obtain OAuth 2.0 authentication and authorization to connect to an SAP Fieldglass REST API, and related HTTP response codes, see the document *SAP Fieldglass REST API Integration* on the SAP Help Portal at <https://help.sap.com/viewer/1befd97581554895bb7fcfa6049f53e/cloud/en-US>.

Prerequisites

- Connectivity between the SAP Solution Monitoring platform and the SAP Fieldglass REST API. Requires an established connection within the Solution Monitoring platform with access to the SAP Fieldglass APIs built for integration monitoring management.
- Integrations / Subscriptions must be enabled and operational within SAP Fieldglass.

Additional Service Offerings


SAP provides the following open services that integrate with the SAP Fieldglass Audit Trail API resource:

- **SAP Solution Manager: SAP Fieldglass and SAP Cloud Integration**
Learn about the integration scenarios between SAP Fieldglass and Cloud Integration. Describes the technical prerequisites, available monitoring content, how to connect to the cloud service and monitor the configuration, and how to set up advanced integration monitoring. Go to <https://support.sap.com/en/alm/solution-manager/expert-portal/public-cloud-operations/sap-fieldglass.html#section>.

- **SAP Focused Run: SAP Fieldglass and SAP Cloud Integration**

Learn about the integration scenarios between SAP Fieldglass and Cloud Integration.

Describes how to configure the cloud service and set up advanced integration monitoring.

Go to <https://support.sap.com/en/alm/focused-solutions/focused-run-expert-portal/focused-run-advanced-integration-monitoring-cloud-services/sap-fieldglass.html> 

Related Information

[REST API Specification \[page 5\]](#)

2 REST API Specification

Provides links to the SAP Fieldglass Audit Trail API specifications.

Related Information

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2.1 GET Methods

When using the SAP Fieldglass Audit Trail API, the following GET methods post integration processes (subscriptions) and files to SAP Fieldglass from external systems.

Note the following options:

- To return all records (limit 100), remove `TransactionID`.
- To filter the data set, add start time and stop time parameters.
- To call back a single record set, pass a specific `TransactionID` in the URL.

Service `auditTrail`

Service	<code>auditTrail</code>
GET	<code>/api/vc/auditTrail</code>
GET	<code>/api/vc/auditTrail?transactionid={TransactionID}</code>
GET	<code>/api/vc/auditTrail?transactionid={TransactionID}&fileContents=true&contentType=errorFile</code>
GET	<code>/api/vc/auditTrail?transactionid={TransactionID}&fileContents=true&contentType=errorUploadFile</code>
GET	<code>/api/vc/auditTrail?priorstarttime=[value]&currentstarttime=[value]</code>

Service	auditTrail
GET	/api/vc/auditTrail? status=[value]&priorstarttime=[value]¤tstarttime=[value]
GET	/api/vc/auditTrail?priorstoptime=[value]¤tstoptime=[value]
GET	/api/vc/auditTrail? status=[value]&priorstoptime=[value]¤tstoptime=[value]

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2.2 Parameters

Describes the parameters in the SAP Fieldglass Audit Trail API.

Parameter Name	Parameter Type	Data Type	Description
transactionid	Transaction ID	String	Transaction ID for transmission. Can be used alone.
fileContents	File Contents	Boolean	Indicates whether to include the file contents. Valid values: <ul style="list-style-type: none"> • true • false Must be used with transactionid and contentType.

Parameter Name	Parameter Type	Data Type	Description
contentType	Content Type	String	<p>The type of content to be returned. Valid values:</p> <ul style="list-style-type: none"> errorFile errorUploadFile <p>Must be used with transactionid and fileContents.</p>
priorstarttime	Start Time	Data	<p>Start time of the integration.</p> <p>Must be used with currentstarttime.</p>
currentstarttime	Start Time	Data	<p>Start time of the integration.</p> <p>Must be used with priorstarttime.</p>
priorstoptime	Stop Time	Data	<p>Stop time of the integration.</p> <p>Must be used with currentstoptime.</p>
currentstoptime	Stop Time	Data	<p>Stop time of the integration.</p> <p>Must be used with priorstoptime.</p>
status	Status	String	<p>Error / OK status tied to the integration process to be filtered on. Both the priorstarttime and currentstarttime headers must be included with the status header.</p> <p>Must be used with either priorstarttime and currentstarttime or priorstoptime and currentstoptime.</p>

The following code blocks show examples of the GET structure.

Sample Code

get structure

```
GET /api/vc/auditTrail/priorstarttime=[value]&currentstarttime=[value]
```

```
GET /api/vc/auditTrail/priorstoptime=[value]&currentstoptime=[value]
```

```
GET /api/vc/auditTrail/status=[value]&priorstarttime=[value]&currentstarttime=[value]
```

```
GET /api/vc/auditTrail/
status=[value]&priorstoptime=[value]&currentstoptime=[value]
```

The recommended return for this service is a 200 record count. The value can be adjusted by an SAP Fieldglass administrator in the company system environment configuration *INTEGRATION_AUDIT_TRAIL_RESPONSE_MAX_LIMIT*.

To verify the results, you can query the following status codes:

- OK
- NA
- ERROR
- uploadDataError
- inProgress
- NoUpdate

Note

All queried results reflect UTC time. You can query the `priorstarttime` and `currentstarttime` values to verify that the times reflect the format `018-03-15T03:51:03.02Z`.

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2.3 Header Elements

Describes the header elements in the SAP Fieldglass Audit Trail API.

Header Name	Header Value	Data Type	Description
Authorization	bearer [access token]	String	Utilize access token received. Only required for production access when using SAP Fieldglass.

Header Name	Header Value	Data Type	Description
x-ApplicationKey	[server provided key]	String	The company-specific key provided by SAP Fieldglass for API access. This is required for production access.
Content-Type	application/x-www-form-urlencoded	String	This value is required in production and must be application/x-www-form-urlencoded.

Related Information

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2.4 Sample API Call and Response

Provides an API call and response code samples for the SAP Fieldglass Audit Trail API.

Sample Code

sample API call

```
GET /api/v1/auditTrail
Authorization: Bearer WDXlKj3TTON3rpg9GHnZpbKmvj1=
x-ApplicationKey: 5c91f4fdb0c6ee9992ff476f89bf6cf25e589350
Content-Type: application/x-www-form-urlencoded
```

Sample Code

sample response - integration audit trail details

```
{
  "HEADER": {
    "appVersion": "FieldglassAPIServer/1.0",
    "OSUAStr": "FieldglassAPIServer/1.0",
    "numRecs": 1,
    "status": "ok",
    "details": "all ok"
  },
  "PAYLOAD": [
    {
      "type": "Cost Center Upload" / "type": "SFTP",
      "company": " SAPT",
      "startTime": "10/21/2017 03:00 AM",
      "stopTime": "10/21/2017 03:04 AM",
      "user": "Administrator, Fieldglass",
      "ID": " z17102100303812832877833",
    }
  ]
}
```

```

    "Attributes": {
      "version": "BULK-FULL-V1.0",
      "activity": "Upload",
      "company": "SAPT",
      "documentStatus": "ERROR",
      "deliveryTime": "10/21/2017 03:04 AM",
      "deliveryStatus": "ERROR",
      "message": "delivery:Error while delivery
An exception occurred while processing the file(s) in Fieldglass.
Please contact Fieldglass support."
      "duration": "3:34.580",
      "serverStatus": "Upload Data Error",
      "serverMessage": " Errors or Warnings are Found In Upload Process
ERROR in row with record key - UT1, Required data is missing for Name.",
      "recordsProcessed": "0",
      "recordsFailed": "4",
      "clientReturnCode": "N/A",
      "clientMessage": "OK"
      "crc32Checksum": "2931036798",
      "uploadFile": "uploadsite.csv",
      "details": "all ok"
      "status": "ok",
    }
  ]

```

Sample Code

sample response - subscription audit trail details

```

{
  "type": "Cost Center Upload",
  "company": "ANTE",
  "startTime": "2018-03-08 08:37:54.84",
  "stopTime": "2018-03-08 08:37:56.87",
  "user": "DN_ANTE_TU_14X",
  "category": "Subscription Audit trail",
  "ID": "z18030808375525054450983",
  "Attributes": {
    "version": "BULK-FULL-V1.0",
    "activity": "Upload",
    "company": "ANTE",
    "documentStatus": "OK",
    "deliveryTime": "2018-03-08 08:37:55.22",
    "deliveryStatus": "OK",
    "message": "",
    "duration": "2.30",
    "serverStatus": "Upload Data Error",
    "serverMessage": "\r\nERROR in row with record key - A, Cost Center
Code French-Sub-1222 does not exist.\r\n",
    "recordsProcessed": "1",
    "recordsFailed": "1",
    "clientReturnCode": "-1",
    "clientMessage": "N/A",
    "crc32Checksum": "3043050007",
    "uploadFile": "ANTE_COST_CENTER_UPLOAD.csv"
  },
  "status": "ok",
  "details": "all ok"
}
]
}

```

Related Information

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2.5 API Header

Describes the header names and example values in the SAP Fieldglass Audit Trail API.

API Header Names

Header Name	Header value	Comments/Notes
AppVersion	FieldglassAPIServer/1.0	
OSUAStr	FieldglassAPIServer/1.0	
NumRecs	1	
Status	ok	
Details	all ok	

Related Information

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2.6 Payload Specifications

Describes the header payload specifications in the SAP Fieldglass Audit Trail API.

SAP Fieldglass System Value	Required?	Data Type	Sample	Description
type	Yes	String	Cost Center Upload	Connector name
company	Yes	String	SAPT	SAP Fieldglass company code.
startTime	Yes	String	10/21/2017 03:00 AM	
stopTime	Yes	String	10/21/2017 03:04 AM	

SAP Fieldglass System Value	Required?	Data Type	Sample	Description
user	Yes	String	Administrator, Fieldglass	Process integration technical user.
ID	Yes	String	z17102100303812832877833	Unique ID associated to the specific integration file being processed within SAP Fieldglass.

Related Information

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2.7 Payload Specifications

Describes the attribute payload specifications in the SAP Fieldglass Audit Trail API.

SAP Fieldglass System Values	Required?	Sample	Description
version	Yes	BULK-FULL-V1.0 API - V1.0	Reflects the current version and type of the integration connector.
activity	Yes	upload	
company	Yes	SAPT	Client buyer code associated to the subscription/integration.
documentStatus	Yes	ERROR	
deliveryTime	Yes	10/21/2017 03:04 AM	
deliveryStatus	Yes	ERROR	
message	Yes	delivery:Error while delivery	
duration (mm:ss.ms)	Yes	3:34.580	Amount of time associated to the processing of an integration file within SAP Fieldglass.
serverStatus	Yes	Upload Data Error	Reflects the standard error message associated to the integration file processing.

SAP Fieldglass System Values	Required?	Sample	Description
serverMessage	Yes	Errors or Warnings are Found In Upload Process ERROR in row with record key - UT1, Required data is missing for Name.	Number of records processed within a file transfer. Not displayed for a subscription error.
recordsProcessed	Yes	0	Number of records processed within a file transfer. Not displayed for a subscription error.
recordsFailed	Yes	4	Number of records failed within a file transfer. Not displayed for a subscription error.
acknowledgeTime	Yes	10/21/2017 03:01 AM	
clientReturn Code	Yes	N/A	
clientMessage	Yes	OK	
crc32Checksum	Yes	2931036798	
uploadFile	Yes	uploadsite.csv	Name of the file associated to the integration.
details	Yes	all ok	Time associated to the subscription delivery of the integration (not the individually processed integration file).
status	Yes	OK	Status of the delivery of the integration between SAP Fieldglass and external platform.

Note

Some of the values listed may not be present, dependent upon if the error details are associated to the subscription/delivery process, or if processing of the file in the integration is where the error exists.

The success/failure of the subscription or connector determines the fields provided in the header and payload.

For example:



- If the subscription errors out on delivery, the TRANSACTION ID = SUBSCRIPTION ID in the header and only the subscription content (highlighted above) is reflected in the payload.
- If the subscription/delivery of the integration is successful, then the TRANSACTION ID = CONNECTOR ID/TRANS ID and all content is included in the payload for both the connector and the associated subscription.

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