

API Gateway

Version 7.6.2

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Sentinel Interoperability Guide



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This documentation describes the following Axway software:

Axway API Gateway 7.6.2

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Preface

This guide describes how to configure API Gateway and Axway Sentinel to work together.

Who should read this guide

The intended audience for this guide is system integrators who are responsible for integrating API Gateway with other applications.

Others who might find parts of this guide useful include network or systems administrators and other technical or business users.

How to use this guide

This guide should be used in conjunction with the other guides in the API Gateway documentation set. Before configuring API Gateway to work with Axway Sentinel you should understand exactly what message filters are, and how they are chained together to create a message policy. These concepts are documented in detail in the *API Gateway Policy Developer Guide*.

You should also consult the documentation set for Axway Sentinel.

Before you begin, review this guide thoroughly. The following is a brief description of the contents of each section:

[API Gateway and Axway Sentinel on page 8](#) – Provides an overview of the interoperability scenario, including prerequisites for API Gateway and Axway Sentinel.

[Configure Axway Sentinel on page 10](#) – Describes how to configure tracked objects in Axway Sentinel.

[Configure API Gateway on page 11](#) – Describes how to configure a connection from API Gateway to Axway Sentinel server and how to use the Axway Sentinel filters in Policy Studio.

[Generate event views in Axway Sentinel Monitoring on page 18](#) – Describes how to configure API Gateway filters to generate LifeCycle views, event graphs, and cycle graphs in Axway Sentinel Monitoring.

[Send alert to Axway Sentinel on page 24](#) – Describes how to send an alert event from API Gateway to Axway Sentinel.

Related documentation

The AMPLIFY API Management solution enables you to create, publish, promote, and manage Application Programming Interfaces (APIs) in a secure and scalable environment. For more information, see the *AMPLIFY API Management Getting Started Guide*.

The following reference documents are also available on the Axway Documentation portal at <https://docs.axway.com>:

- *Supported Platforms*
Lists the different operating systems, databases, browsers, and thick client platforms supported by each Axway product.
- *Interoperability Matrix*
Provides product version and interoperability information for Axway products.

Support services

The Axway Global Support team provides worldwide 24 x 7 support for customers with active support agreements.

Email support@axway.com or visit Axway Support at <https://support.axway.com>.

See "Get help with API Gateway" in the *API Gateway Administrator Guide* for the information that you should be prepared to provide when you contact Axway Support.

Training services

Axway offers training across the globe, including on-site instructor-led classes and self-paced online learning. For details, go to: <http://www.axway.com/support-services/training>

Accessibility

Axway strives to create accessible products and documentation for users.

This documentation provides the following accessibility features:

- [Screen reader support on page 7](#)
- [Support for high contrast and accessible use of colors on page 7](#)

Screen reader support

- Alternative text is provided for images whenever necessary.
- The PDF documents are tagged to provide a logical reading order.

Support for high contrast and accessible use of colors

- The documentation can be used in high-contrast mode.
- There is sufficient contrast between the text and the background color.
- The graphics have the right level of contrast and take into account the way color-blind people perceive colors.

API Gateway and Axway Sentinel

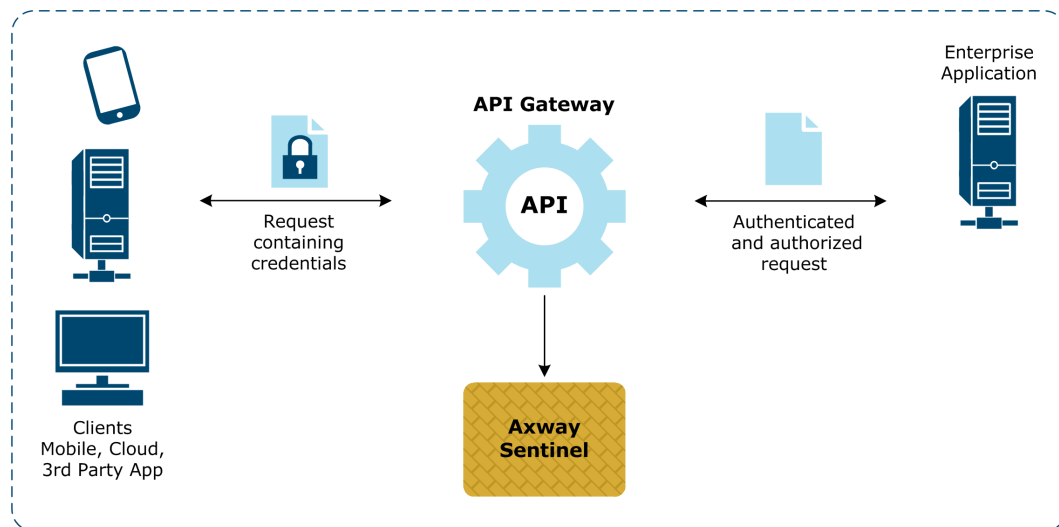
1

This guide describes the interoperability between API Gateway and Axway Sentinel. For specific information about the installation and general use of either API Gateway or Axway Sentinel, refer to their respective documentation.

Why use the products together

Axway Sentinel is a Business Activity Monitoring (BAM) product that collects, aggregates, correlates, and reports events from API Gateway and other applications and systems throughout your infrastructure. Axway Sentinel is a separate product that you can buy from Axway or an authorized partner.

The following figure shows a typical deployment of API Gateway and Axway Sentinel.



You can configure API Gateway to send events and alerts to Axway Sentinel Server. The following use cases are supported:

- [Generate event views in Axway Sentinel Monitoring on page 18](#)
- [Send alert to Axway Sentinel on page 24](#)

Prerequisites

The prerequisites for API Gateway and Axway Sentinel interoperability are as follows.

API Gateway

You must install Axway API Gateway version 7.6.2 or later, and have a valid API Gateway license file from Axway.

Axway Sentinel

You must install Axway Sentinel version 4.0 or later and have a valid PassPort license file from Axway.

This section describes how to configure tracked objects in Axway Sentinel.

What is a tracked object

The event message generated by API Gateway is referred to as a tracked-event message. API Gateway generates tracked-event messages that are sent to the Axway Sentinel Server. A tracked object is a model that describes an application event. Every tracked-event message contains a name field that corresponds to the name of the tracked object to be used with that message.

Every tracked object contains a:

- Unique name
- Version number
- List of attributes describing the properties of events. Each attribute has a:
 - name (unique for that object)
 - data type
 - default value

For more information on tracked objects and tracked-event messages, see the *Sentinel Configuration Guide*.

Create a tracked object in Axway Sentinel

The tracked object definition is created from Axway Composer (using the Axway Sentinel Enabler plug-in) and imported into Axway Sentinel.

For more information on how to define tracked objects, see the *Sentinel Configuration Guide*.

This section describes how to configure API Gateway to work together with Axway Sentinel.

The tasks involved are summarized as follows:

- [Configure Axway Sentinel server on page 11](#)
- [Send event to Axway Sentinel on page 12](#)
- [Send cycle link event to Axway Sentinel on page 16](#)

Configure Axway Sentinel server

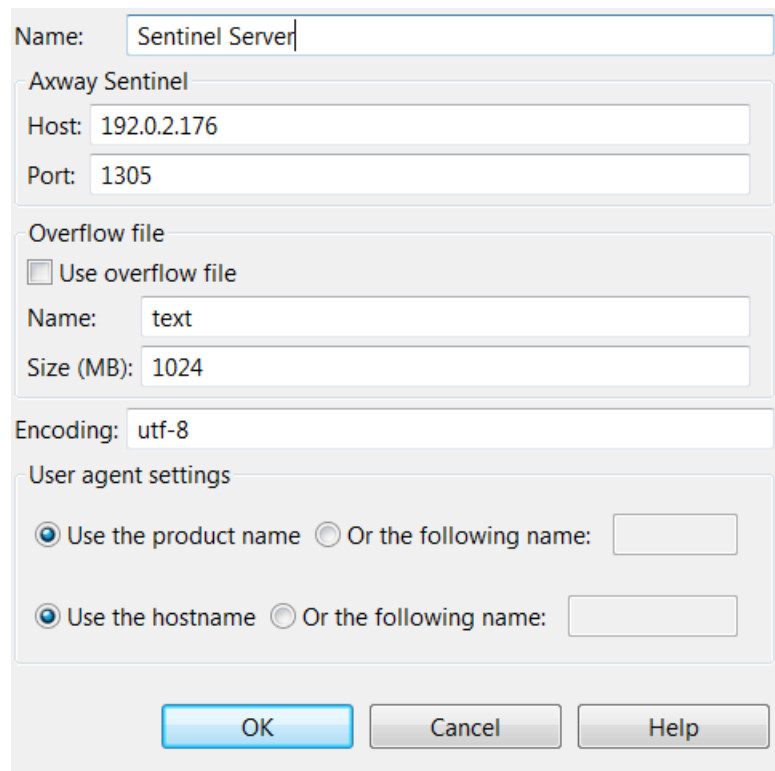
You can configure the Axway Sentinel server connection in Policy Studio under the **Environment Configuration > External Connections > Sentinel Servers** tree node.

Tip Remember that the Sentinel server connection details should be named with alias names so that the configuration can be migrated easily through environments.

To configure a Sentinel server connection, follow these steps:

1. Click and expand the **External Connections** node in the Policy Studio tree.
2. Right-click **Environment Configuration > Sentinel Servers**, and select **Add a Sentinel Server**.
3. Complete the fields in the Axway Sentinel Server dialog for the Sentinel server to which API Gateway will send events:
 - Enter the FQDN or IP address of the Sentinel server in the **Host** field.
 - Enter a valid TCP port on the Sentinel server to which events are sent in the **Port** field.
 - In the Overflow file section, specify information about the file to be used to store API Gateway event data when there is no connection between API Gateway and Axway Sentinel.
 - By default API Gateway registers events against the API Gateway's name in the topology. To use another name, select the option **Or the following name** and enter the name to use in the text field.
 - By default API Gateway registers events against the host name of the machine running the API Gateway. To use another host name, check the option **Or the following name** and enter the host name to be used in the text field.

The following figure shows an example configuration.



The screenshot shows a configuration dialog box for Axway Sentinel. It has several sections: 'Name' with a text field containing 'Sentinel Server'; 'Axway Sentinel' section with 'Host' (192.0.2.176) and 'Port' (1305) fields; 'Overflow file' section with a checkbox 'Use overflow file' (unchecked), 'Name' (text) field containing 'text', and 'Size (MB)' field containing '1024'; 'Encoding' field containing 'utf-8'; and 'User agent settings' section with two rows of radio buttons. The first row has 'Use the product name' (selected) and 'Or the following name:' with an empty text field. The second row has 'Use the hostname' (selected) and 'Or the following name:' with an empty text field. At the bottom are 'OK', 'Cancel', and 'Help' buttons.

For more information on configuring connections to the Sentinel server, see the *API Gateway Policy Developer Guide*.

Send event to Axway Sentinel

You can use the **Axway Sentinel Event** filter in API Gateway to configure the tracked-event message to send to Axway Sentinel.

Note The tracked object definition must already exist in Axway Sentinel (see [Configure Axway Sentinel on page 10](#)).

Configure the Axway Sentinel Event filter

The following figure shows the configuration window for the **Axway Sentinel Event** filter, which is available in the **Monitoring** category in Policy Studio.

Sentinel event

Send event to Axway Sentinel



Name: Axway Sentinel Event

Settings **Tracking**

Sentinel Server: Sentinel Server QA Lab

Tracked object

☒ Use the following tracked object:

XFBTRANSFER 3.0

☐ Or use the following from the message:

Tracked object name: \${http.headers["X-TRACKEDOBJECT-NAME"]}

Tracked object version: \${http.headers["X-TRACKEDOBJECT-IDENTITY"]}

Event will contain the following

☒ Include Cycle ID: \${id}

☒ Include policy name in event named: TestLabel

☒ Include filter name in event named: ReturnMessage

Event name	Event value
UserName	\${authentication.subject.id}

☐ Send as update

Add Edit Delete

Help < Back Next > Finish Cancel

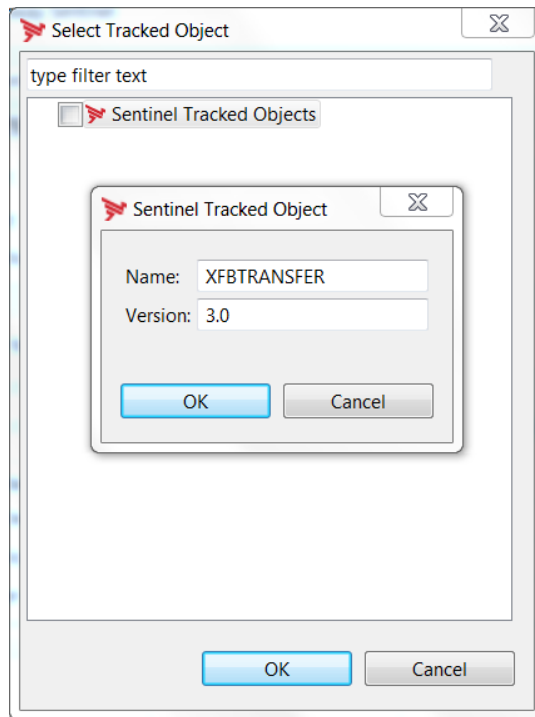
The tracked object you have created in Axway Sentinel contains the list of attributes that can be sent in an event to Axway Sentinel. You must specify the tracked object to be used in the filter. You can find this information in the tracked object XML definition. For example, the following XML extract shows the tracked object version and name:

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!-- ~ Copyright (c) 2013 by Axway Software ~ All brand or product names are trademarks or registered trademarks of their
~ This document and the software described in this document are the property of Axway Software and are protected as Axwa
secrets. ~ No part of this work may be reproduced or disseminated in any form or by any means, without the prior written pe
Software. -->
<TrackingObject xsi:noNamespaceSchemaLocation="TrackingObject_3.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema"
xml:Version="3.0" publicName="XFBTRANSFER" name="Company.New_XFB_TO.XFBTransfer" lastModified="2013-11-
06T12:12:11+02:00" label="Tracking for XFB monitors (v4.1)" id="3078ae1c-0ba5-11e1-b28d-0023ae73c331">
  <description/>
  <sourcePolicy name="sourcePolicy" />
</TrackingObject>
```

For this example, the following tracked object details would be entered in the filter configuration:

- **Name:** XFBTRANSFER
- **Version:** 3.0

To configure the tracked object click the browse button next to the **Use the following tracked object** field. In the dialog, right-click **Sentinel Tracked Objects** and select **Add a tracked object**. Enter the required **Name** and **Version** in the dialog and click **OK**.



Alternatively, an upstream product, for example Axway B2Bi, might have inserted tracking information inside some HTTP headers. You can use selectors to retrieve these from the message and use them as the definition of the tracked object to use. Select the **Or use the following from the message** option, and enter appropriate selectors in the **Tracked object name** and **Tracked object version** fields. For example, you might enter the following selectors to retrieve the values from the HTTP headers:

☒ **Or use the following from the message:**

Tracked object name:

Tracked object version:

After the tracked object has been configured you can configure what event attributes to send to Axway Sentinel. The named event attributes must be contained within the tracked object. For example, to send the cycle ID you must use a tracked object that contains the `CycleId` attribute:

```

<description>AgentIPPort</description>
<attributeOrder>1</attributeOrder>
</SystemAttribute>
- <SystemAttribute visible="true" isUser="false" indexed="false" criteria="true">
  <name>CycleId</name>
  <attributeType>DBStringVar</attributeType>
  <length>250</length>
  <value/>
  <description>Cycle</description>
  <attributeOrder>2</attributeOrder>
</SystemAttribute>
- <SystemAttribute visible="true" isUser="false" indexed="false" criteria="true">
  <name>InternalState</name>
  ..

```

In this case you can select the **Include Cycle ID** option in the filter configuration, for example, to set the cycle ID to the value of the transaction ID in API Gateway:

Event will contain the following

☒ Include Cycle ID:

The policy name and the filter name can be placed in any named attribute, as long as that attribute name exists within the tracked object definition. You can also add other attributes to be included in the event by populating entries in the table. For example, to populate the attribute `UserName` with the authenticated user, enter the following:

Event name	Event value	
UserName	{authentication.subject.id}	

The tracked object definition must contain an attribute named `UserName`:

```

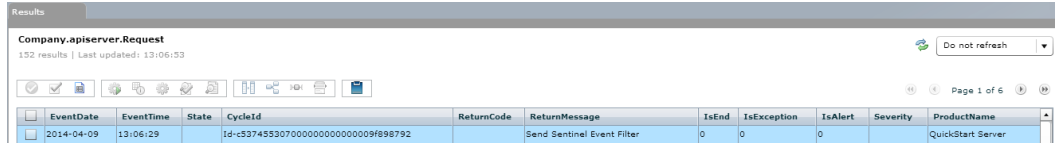
</SystemAttribute>
- <SystemAttribute visible="true" isUser="false" indexed="false" criteria="true">
  <name>UserName</name>
  <attributeType>DBStringVar</attributeType>
  <length>20</length>
  <value/>
  <description>User Name</description>
  <attributeOrder>22</attributeOrder>
</SystemAttribute>

```

For more information on configuring the **Axway Sentinel Event** filter, see the *API Gateway Policy Developer Filter Reference*.

Result in Axway Sentinel

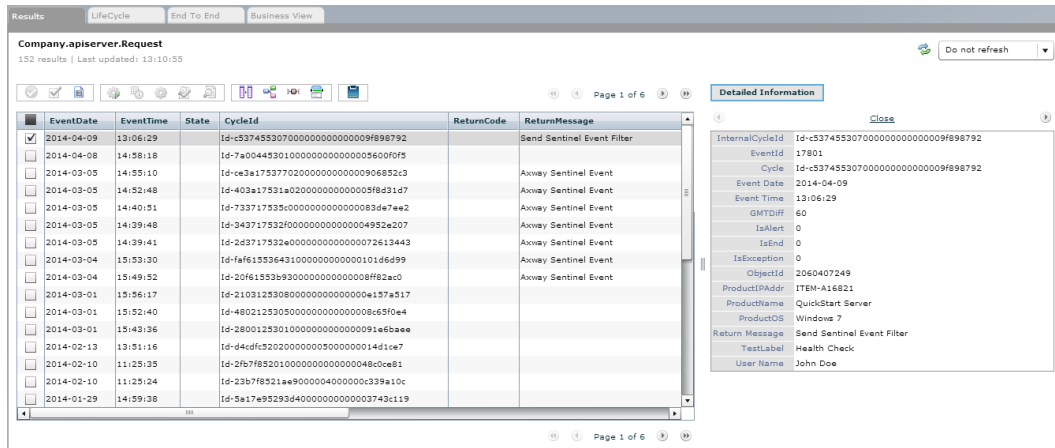
When the **Axway Sentinel Event** filter is invoked as configured above, it results in the following event in Axway Sentinel Monitoring:



The screenshot shows the 'Results' tab in Axway Sentinel Monitoring. It displays a table with 12 columns: EventDate, EventTime, State, CycleId, ReturnCode, ReturnMessage, IsEnd, IsException, IsAlert, Severity, and ProductName. The first row shows an event from 2014-04-09 at 13:06:29 with the message 'Send Sentinel Event Filter' and product 'QuickStart Server'.

EventDate	EventTime	State	CycleId	ReturnCode	ReturnMessage	IsEnd	IsException	IsAlert	Severity	ProductName
2014-04-09	13:06:29		Id-c53745530700000000000009f898792		Send Sentinel Event Filter	0	0	0		QuickStart Server

The details of the event show where the event attributes have been populated by the filter:



The screenshot shows the 'Detailed Information' window for the event. It displays various attributes including InternalCycleId, EventId, Cycle, Event Date, Event Time, GMTDiff, IsAlert, IsEnd, IsException, Objectid, ProductIPAddr, ProductName, ProductOS, Return Message, TestLabel, and User Name.

Attribute	Value
InternalCycleId	Id-c53745530700000000000009f898792
EventId	17801
Cycle	Id-c53745530700000000000009f898792
Event Date	2014-04-09
Event Time	13:06:29
GMTDiff	60
IsAlert	0
IsEnd	0
IsException	0
Objectid	2060407249
ProductIPAddr	ITEM-A16821
ProductName	QuickStart Server
ProductOS	Windows 7
Return Message	Send Sentinel Event Filter
TestLabel	Health Check
User Name	John Doe

Send cycle link event to Axway Sentinel

You can use the **Axway Sentinel Link Event** filter in API Gateway to send cycle link events to Axway Sentinel. These cycle link events are used to link events from two products with two different cycle IDs.

Note You must know the cycle IDs for both products and the tracked object definitions must already exist in Axway Sentinel (see [Configure Axway Sentinel on page 10](#)).


Configure the Axway Sentinel Link Event filter

The following figure shows the configuration window for the **Axway Sentinel Link Event** filter, which is available in the **Monitoring** category in Policy Studio.

Sentinel Cycle Link

Send cycle link to Axway Sentinel


Name:

Sentinel Server: 

Parent Settings

Parent Cycle ID:

☒ Use the following tracked object:



☐ Or use the following from the message:


Tracked object name:

Tracked object version:

Child Settings

Child Cycle ID:

☒ Use the following tracked object:



☐ Or use the following from the message:

Tracked object name:

Tracked object version:

Enter the location of the upstream cycle ID contained in the message in the **Parent Cycle ID** field (for example, the cycle ID of the upstream product such as Axway B2Bi). In the example above the parent cycle ID is taken from the HTTP request headers named `X-TRACKING-CYCLEID`. You must also specify the tracked object name and version for the parent cycle ID.

Enter the cycle ID generated by API Gateway in the **Child Cycle ID** field. You must also specify the tracked object name and version for the child cycle ID.

For more information on configuring the **Axway Sentinel Link Event** filter, see the *API Gateway Policy Developer Filter Reference*.

Generate event views in Axway Sentinel Monitoring

4

Axway Sentinel Monitoring provides four different options for viewing the processing cycle of events:

- Cycle Graph: A global representation of the processing cycle of events from many tracked objects.
- Event Graph: A diagram of the processing cycle of events sent to the same tracked object.
- LifeCycle: A graphical representation of the processing cycle of events.
- Business View: A business-oriented presentation of events.

For more information on Sentinel graphs, see the *Sentinel User Guide*.

API Gateway supports the following types of interactions with Axway Sentinel:

Graph	Description	Purpose	Comment
Cycle Graph	Graph of solution steps.	Show relations between products during a process.	Different tracked objects, different cycle ID, linked together by cycle links. For more information, see Cycle graphs on page 18 .
Event Graph	Graph of a solution step (for example, a processing step made by multiple maps).	Show events that occurred in one product during a process.	Same tracked object, different cycle ID, linked together by UserObjectId and UserParentId. For more information, see Event graphs on page 19 .
LifeCycle	Historical view of the same Cycle ID notification instance.	Show historical steps of one event during a process.	Same tracked object, same cycle ID. For more information, see LifeCycle views on page 22 .

Cycle graphs

Cycle graphs are used to show the relationship between products and give you a view of related events. The events can be sent by any product as long as they are linked together by cycle links. This is a high level view of events that summarizes what happened between different products, with only the main events displayed.

For example, if you have two products (for example, Axway B2Bi and API Gateway) each sending events to the same Sentinel server, each product sends events with different cycle IDs. If these two cycle IDs are linked, you can send a link event to the Axway Sentinel server. This results in the two nodes being linked in Axway Sentinel.

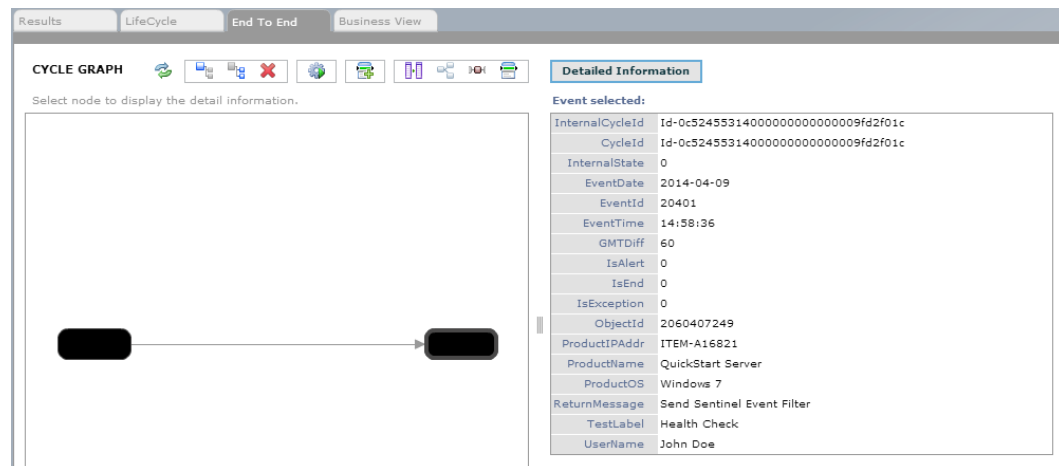
Generate a cycle graph in Axway Sentinel Monitoring

To achieve this in API Gateway, perform the following steps:

1. Configure the Sentinel server connection in API Gateway. See [Configure Axway Sentinel server on page 11](#).
2. Send events from API Gateway using the **Axway Sentinel Event** filter. See [Send event to Axway Sentinel on page 12](#).
3. Send cycle link events using the **Axway Sentinel Link Event** filter. See [Send cycle link event to Axway Sentinel on page 16](#).

Result in Axway Sentinel Monitoring

In Axway Sentinel Monitoring this results in a cycle graph (a relationship between cycle IDs) where each of the events from the different products are linked:



For more information on Sentinel cycle graphs, see the *Sentinel User Guide*.

Event graphs

Event graphs are used to show events that occurred in one product during a process. They give a view of the processing cycle of events sent to the same tracked object.

Generate an event graph in Axway Sentinel Monitoring

To achieve this in API Gateway, perform the following steps:

1. Configure the Sentinel server connection in API Gateway. See [Configure Axway Sentinel server on page 11](#).
2. Use the **Axway Sentinel Event** filter to send an event with two different event attributes called `UserObjectId` and `UserParentId`:

Attribute name	Description
UserParentId	Unique string that identifies the parent of the relevant tracked event
UserObjectId	Unique string that identifies the relevant tracked event

For more information, see [Send event to Axway Sentinel on page 12](#).

The following figure shows the filter configuration.

Sentinel event

Send event to Axway Sentinel



Name:

Settings **Tracking**

Sentinel Server:

Tracked object

☒ Use the following tracked object:

☐ Or use the following from the message:

Tracked object name:

Tracked object version:

Event will contain the following

☒ Include Cycle ID:

☒ Include policy name in event named:

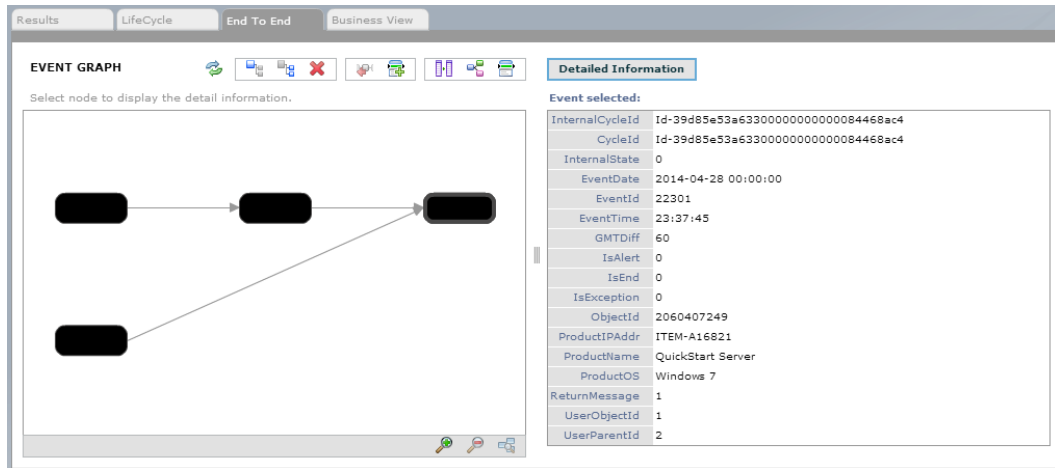
☒ Include filter name in event named:

Event name	Event value
ReturnMessage	1
UserObjectId	1
UserParentId	2

☐ Send as update

Result in Axway Sentinel Monitoring

The following figure shows the resulting event graph in Axway Sentinel Monitoring.



For more information on Sentinel event graphs, see the *Sentinel User Guide*.

LifeCycle views

LifeCycle views show the historical steps of one event during a process. They give a view of the different phases of a step. The best example is a transfer: It is first initiated by the client, the connection is made with the server, the server authenticates the client, the transfer begins, and so on. Each of these phases is part of the same transfer. These events are not linked together, they share the same cycle ID, and only the LifeCycle view can show this level of detail about an event. This view is designed to describe a step in a product, and shows what happened within an event. It should only show phases of one step (one activity).

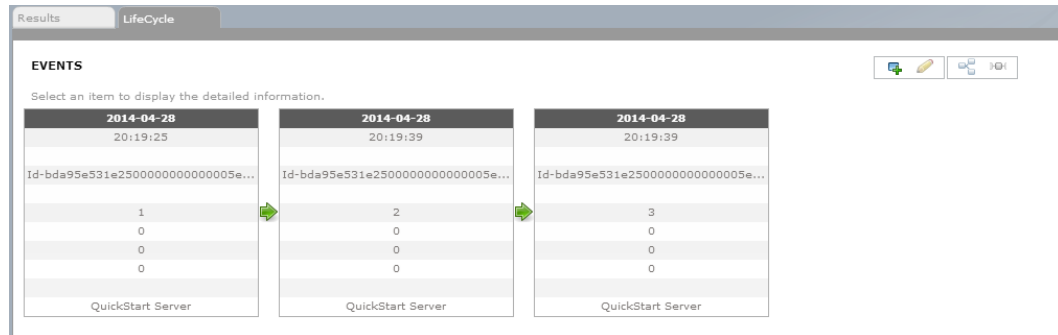
Generate a LifeCycle view in Axway Sentinel Monitoring

To achieve this in API Gateway, perform the following steps:

1. Configure the Sentinel server connection in API Gateway. See [Configure Axway Sentinel server on page 11](#).
2. Use the **Axway Sentinel Event** filter to send an event with the same Cycle ID but with different values for an attribute in the event. For more information, see [Send event to Axway Sentinel on page 12](#).

Result in Axway Sentinel Monitoring

The example below shows a life cycle event resulting from using three **Axway Sentinel Event** filters, where each filter increments the value of the `ReturnMessage` attribute (using values 1, 2, and 3 in each filter respectively).



The screenshot displays the 'LifeCycle' view in the Axway Sentinel Monitoring interface. It shows three sequential event details for a lifecycle event, each with a 'ReturnMessage' attribute incrementing by 1, 2, and 3 respectively. The events are connected by green arrows indicating a sequence.

2014-04-28 20:19:25	2014-04-28 20:19:39	2014-04-28 20:19:39
Id-bda95e531e2500000000000005e...	Id-bda95e531e2500000000000005e...	Id-bda95e531e2500000000000005e...
1	2	3
0	0	0
0	0	0
0	0	0
QuickStart Server	QuickStart Server	QuickStart Server

For more information on Sentinel LifeCycle views, see the *Sentinel User Guide*.

Send alert to Axway Sentinel 5

You can flag an event sent from API Gateway to Axway Sentinel as an alert by setting an additional attribute `IsAlert` to the value 1.

To achieve this in API Gateway, follow these steps:

1. Configure the Sentinel server connection in API Gateway. See [Configure Axway Sentinel server on page 11](#).
2. Configure an **Alert** filter that calls a policy when an alert is triggered. For example:

Alert filter

Configure when and where to alert

Name: Alert

Alert Type: ☒ Error ☐ Warn ☐ Info

Notifications Tracking Default Message

Notifications will be sent to the checked destinations:

- ☐ Email
- ☒ API Manager Email Alert
- ☐ OPSEC
- ☐ Syslog Local (UNIX only)
- ☐ SNMP
- ☐ Windows Event Log
- ☐ Syslog Remote
- ☐ AWS SNS
- ☐ Twitter

Configure alert notifications from this dialog:

- Press the 'New' button to create a new alert destination.
- Press the 'Edit' button to configure the selected alert destination.
- Press the 'Delete' button to remove the selected alert destination.
- Select an alert destination to edit or view the notification message.
- Use an alert destination checkbox to enable or disable the notification.

Call this policy when alert is triggered: Sentinel Alert

Help < Back Next > Finish Cancel

For more information on configuring an Alert filter, see the *API Gateway Policy Developer Filter Reference*.

3. Add an **Axway Sentinel Event** filter to the policy that is called from the Alert filter with an additional attribute `IsAlert` configured with a value of 1. For example:

Sentinel event

Send event to Axway Sentinel

Name:

Settings **Tracking**

Sentinel Server:

Tracked object

☒ Use the following tracked object:

☐ Or use the following from the message:

Tracked object name:

Tracked object version:

Event will contain the following

☒ Include Cycle ID:

☒ Include policy name in event named:

☒ Include filter name in event named:

Event name	Event value
IsAlert	1
ReturnMessage	Alert from Sentinel

☐ Send as update

For more information on configuring a Sentinel event filter, see [Send event to Axway Sentinel on page 12](#).

Results	LifeCycle	End To End	Business View						
Company.apiserver.Request									
4 results Last updated: 21:09:02									
<input checked="" type="checkbox"/>	EVENTDATE	EVENTTIME	STATE	CYCLEID	RETURNCODE	RETURNMESSAGE	ISEND	ISEXCEPTION	ISALARM
<input checked="" type="checkbox"/>	2014-04-29	21:08:04		Id-a406605329000000000000cf8a2264		Alert from Sentinel	0	1	1
<input type="checkbox"/>	2014-04-28	23:37:45		Id-39d85e53ae63300000000000084468ac4	1		0	0	0
<input type="checkbox"/>	2014-04-28	20:19:25		Id-bda95e531e2500000000000005e379e7	1		0	0	0
<input type="checkbox"/>	2014-04-28	16:54:39		Id-be795e53fe16000000000000d292009c		Axway Sentinel Event	0	0	0