Focused Run for SAP Solution Manager
Configuration Guide for consuming external Events & Alerts in Focused Run 1.0 via Inbound Connector.
Typographic Conventions

<table>
<thead>
<tr>
<th>Type Style</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Example</em></td>
<td>Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Textual cross-references to other documents.</td>
</tr>
<tr>
<td><em>Example</em></td>
<td>Emphasized words or expressions.</td>
</tr>
<tr>
<td><strong>EXAMPLE</strong></td>
<td>Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.</td>
</tr>
<tr>
<td><em>Example</em></td>
<td>Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.</td>
</tr>
<tr>
<td><em>Example</em></td>
<td>Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.</td>
</tr>
<tr>
<td><code>&lt;Example&gt;</code></td>
<td>Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.</td>
</tr>
<tr>
<td><strong>EXAMPLE</strong></td>
<td>Keys on the keyboard, for example, &lt;F2&gt; or &lt;ENTER&gt;.</td>
</tr>
</tbody>
</table>
## Document History

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Change</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1</td>
<td>2018-01-14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>2018-01-14</td>
<td>Added Postman for simulation</td>
<td>Umesh Jagadesh</td>
</tr>
<tr>
<td>2.0</td>
<td>2018-03-05</td>
<td>Added mandatory and all parameters for inbound connectors.</td>
<td>Umesh Jagadesh</td>
</tr>
</tbody>
</table>
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Inbound Connector

Apart from handling alerts from Monitoring and Alerting Inbox (MAI), Advanced Event & Alert Management can handle alerts from other sources through inbound connector.

These sources can be monitoring use cases of Focused Run like Advanced System Management (ASM), Advanced User Monitoring (AUM) or Advanced Integration Monitoring (AIM).

Advanced Event & Alert Management also provides integration to consume un-modelled events and metrics from external monitoring tools; for example, infrastructure monitoring via Nagios.
Technical Facts
Inbound connector interface, in the form of an oData service (REST API), is available using which alerts from any third-party application or tool can be fed into Alert Management. The service name is ‘INBOUNDCONNECTOR’ and can be consumed in java script as follows:

Inbound Connector model declaration:
var inboundConnectorDetails = {
  AlertTypeId: "",
  ContextId: "",
  AlertShortText: "",
  ContextName: "",
  ContextType: "",
  ContextTypeText: "",
  CustomerNetwork: "",
  Category: "",
  CategoryText: "",
  Severity: "0",
  MonitoringUsecase: "",
  MonitoringUsecaseText: "",
  LabelText: "",
  Rating: "3",
  ConsumerVariantId: "",
  AlertLongText: "",
  metricDetails: []
};

Binding model to view
var inboundConnectorModel = new JSONModel(inboundConnectorDetails);
this.getView().setModel(inboundConnectorModel, "inboundConnectorModel");
Populating metric model

```javascript
this.getView().getModel("inboundConnectorModel").getProperty("/metricDetails")
  .push(
    { 
      AlertTypeId: "",
      ContextId: "",
      MetricTypeId: "",
      MetricShortText: "",
      Unit: "",
      Rating: "3",
      MeasuredDateUtc: "",
      MeasuredTimeUtc: "",
      Value: "0",
      TextValue: "",
      MetricLongText: ""
    });
```

Call oData

```javascript
var oDataModel = this.getView().getModel();
var inboundConnectorDetails = 
this.getView().getModel("inboundConnectorModel").getProperty("/");
oDataModel.create("/InboundAlertSet", inboundConnectorDetails, {
    success: jQuery.proxy(this.onSucess, this),
    error: jQuery.proxy(this.onError, this)
});
```

**Note**

Provide Notification variant id (as value) in property ‘ConsumerVariantId’, and not the outbound connector variant id.
### Parameter list for Inbound Connector

**Mandatory Parameters.**

<table>
<thead>
<tr>
<th>Alert Mandatory fields</th>
<th>Key</th>
<th>Description (in FRUN)</th>
<th>List of Possible Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>AlertTypeId</td>
<td>X</td>
<td>Alert ID</td>
<td></td>
</tr>
<tr>
<td>ContextId</td>
<td>X</td>
<td>Managed Object ID</td>
<td></td>
</tr>
<tr>
<td>AlertShortText</td>
<td></td>
<td>Alert Short Text</td>
<td></td>
</tr>
<tr>
<td>ContextName</td>
<td></td>
<td>Managed Object Name</td>
<td></td>
</tr>
<tr>
<td>ContextType</td>
<td></td>
<td>Managed Object Type</td>
<td></td>
</tr>
<tr>
<td>ContextTypeText</td>
<td></td>
<td>Managed Object Short Text</td>
<td></td>
</tr>
<tr>
<td>CustomerNetwork</td>
<td></td>
<td>Customer Network Name</td>
<td></td>
</tr>
<tr>
<td>Category</td>
<td></td>
<td>Category</td>
<td></td>
</tr>
<tr>
<td>CategoryText</td>
<td></td>
<td>Category Short Text</td>
<td></td>
</tr>
<tr>
<td>Severity</td>
<td></td>
<td>Severity</td>
<td>0-Very Low,1,2,3,4,5-Medium,6,7,8,9-Critical</td>
</tr>
<tr>
<td>MonitoringUsecase</td>
<td></td>
<td>Monitoring Usecase</td>
<td></td>
</tr>
<tr>
<td>MonitoringUsecaseText</td>
<td></td>
<td>Monitoring Usecase Short Text</td>
<td></td>
</tr>
<tr>
<td>Rating</td>
<td></td>
<td>Rating</td>
<td>3-Red,2-Yellow,1-Green,0-Gray</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Metric Mandatory fields</th>
<th>Key</th>
<th>Description (in FRUN)</th>
<th>List of Possible Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>AlertTypeId</td>
<td>X</td>
<td>Alert ID</td>
<td></td>
</tr>
<tr>
<td>ContextId</td>
<td>X</td>
<td>Managed Object ID</td>
<td></td>
</tr>
<tr>
<td>MetricTypeld</td>
<td>X</td>
<td>Metric ID</td>
<td></td>
</tr>
<tr>
<td>MetricShortText</td>
<td></td>
<td>Metric Short Text</td>
<td></td>
</tr>
<tr>
<td>Rating</td>
<td></td>
<td>Rating</td>
<td>3-Red,2-Yellow,1-Green,0-Gray</td>
</tr>
<tr>
<td>MeasuredDateUtc</td>
<td></td>
<td>Measured Date (UTC)</td>
<td></td>
</tr>
<tr>
<td>MeasuredTimeUtc</td>
<td></td>
<td>Measured Time (UTC)</td>
<td></td>
</tr>
</tbody>
</table>
All Parameters from Inbound Connector.

https://<host name>:<port>/sap/opu/odata/sap/INBOUNDCONNECTOR/$metadata

Provide host name & Port no of your Focused Run System to check list of parameters available in Inbound connectors.

Authorization
The consumer of Inbound Connector should provide the Customer Network of the Managed Object on which the alert is created. The FRUN user executing the service should have enough authorization (from LMDB) to be able to access this customer network and To create the alert, the user should have the following authorization:

Simulate Unmodeled alert in Focused Run System using Postman.

To simulate unmodeled alert creation in Focused Run system use below Postman method to create unmodeled alert in in your Run system.

How to Create an Inbound Alert using Postman:

1. Get CSRF Token:

Provide the URL:
https://<HOSTNAME>:<PORT>/sap/opu/odata/sap/INBOUNDCONNECTOR/InboundAlertSet

Type as ‘No Auth’.

Under Headers tab, add key: x-csrftoken value: fetch and click ‘Send’ to get the token.

Use the generated CSRF token

Note: Once the generated token expires, please regenerate it by following the first step.
2. Once the token is generated, create/POST an inbound alert by following the below steps in a new Postman tab.

- On the **Authorization** tab, enter **Type** as ‘Basic Auth’ and enter the user credentials of the system; for example xx1.

![Postman Authorization](image1)

- On the **Headers** tab, enter the ‘CSRF token’ that is generated at Step 1 and provide the **Content-Type** as ‘application/json’.

![Postman Headers](image2)

- Under **Body** Provide the below/your inputs in json format (select raw option) and choose ‘Send’

```json
{"AlertTypeld" : "DISK_SPACE_AVAIL",
"ContextId" : "EXTERNAL_HDD_01",
"AlertShortText" : "Disk Space Availability",
"ContextName" : "Western Digital 100",
"ContextType" : "Storage",
"ContextTypeText" : "Storage Device",
"ContextTypeIcon" : "",
"CustomerNetwork" : "LOCALNETWORK",
"Category" : "AVAIL",
"CategoryText" : "Availability",
"CategoryIcon" : "",
"Severity" : "9",
"MonitoringUsecase" : "INFRAMON",
"MonitoringUsecaseText" : "Infrastructure Monitoring",
```

![Postman Body](image3)
"MonitoringUseCaseIcon": "",
"LabelText": "",
"Rating": "3",
"ConsumerVariantId": "",
"AlertLongText": "",
"metricDetails": [{
"AlertTypeId": "DISK_SPACE_AVAIL",
"ContextId": "EXTERNAL_HDD_01",
"MetricTypeId": "DISK_FREE_SPACE",
"MetricShortText": "Disk Free Space",
"Unit": "Gigabyte",
"Rating": "3",
"MeasuredDateUtc": "20171117",
"MeasuredTimeUtc": "010101",
"Value": "10",
"TextValue": "Test",
"MetricLongText": "Test"
}]
}

Success
How to View Unmodeled alerts in Alert inbox

In Alert Inbox UI, Select the appropriate Managed Object type for which you have created the alert and choose ‘Go’.