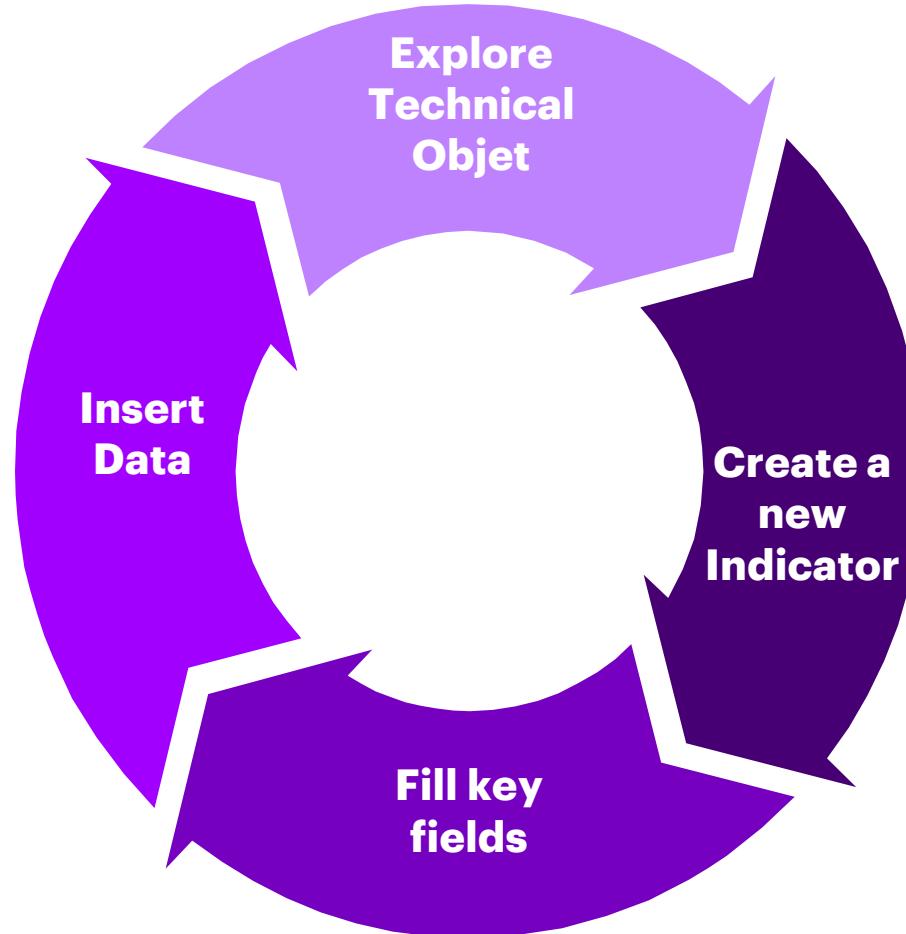


INDICATORS

SAP APM

How to create a Local Indicator?

Step by Step



How to create a Local Indicator?

Step by Step

The screenshot shows the SAP Home interface. At the top, there's a navigation bar with the SAP logo and a "Home" dropdown. Below it, a horizontal menu bar has the "Asset Data and Information Management" item highlighted with a purple border. To the right of this menu are other options: "Asset Risk Assessment", "Asset Reliability Engineering", and "Asset Performance Management". Below the menu bar are four cards: "Explore Technical Objects" (with a value of 663), "Manage Technical Object Groups" (with a value of 29), "Manage Reference Designator Libraries" (with a value of 13), and "Manage Industrial Systems" (with a value of 5).

Look for and Select an Asset to
create a local Indicator

The screenshot shows the "Explore Technical Objects" search interface. At the top, there's a search bar with the text "boiler" and a magnifying glass icon. Below the search bar are several filter fields: "Technical Object Type", "Category", "Object Type", "Maintenance Plant", and "Planner Group". Further down are fields for "Critically", "Cost Center", "Main Work Center", "Company Code", "Class", and "Status". On the right side of the search bar are buttons for "Go" (highlighted with a purple border) and "Adapt Filters (1)". Below the search bar is a table titled "Technical Objects (1)" with a "Standard" filter applied. The table has columns: Technical Object, Category, Object Type, Model Number, Manufacturer, Superior Functional Location, Risk Score, Criticality, and Status. One row is visible: "Boiler 01" (10000945) under Machines (M) and Mechanical (OG02) categories, located in Utility Services 1 (XOG03-UTL001), with a Risk Score of B (B) and Status of Installed.



How to create a Local Indicator?

Step by Step

Boiler 01
10000945

Category: Machines (M) Risk Score Criticality Status
Class: PIROTUBULAR BOILERS (PIROTUBULARBOILERS) Object B (B) Installed
Object Type: Mechanical (OG02)

Information Class – Characteristics **Indicators** Indicator Monitoring Analytics

Indicators (4) Standard Search Create Add New Value Configure Delete

PRESSURE_OUTLET_O...	PRESSURE_OUTLET_O...	Fluid temperature
PRESSURE_OUTLET_OPERATING	PRESSURE_OUTLET_OPERATING	FLUIDTEMPERATURE
BOILER OUTLET	STEAM OULET	1
MeasPoint (general) (M)	MeasPoint (general) (M)	MeasPoint (general) (M)

Select “creat” to star filling key fields



How to create a Local Indicator?

Step by Step

Fill Fields with the correct information

Create Local Indicator

Characteristic: <input type="text"/>	Unit of Measure:	Number of Decimal Places for Display: <input type="text"/>
Description:	Maximum Value: <input type="text"/>	Color: Select Color
Position: <input type="text"/>	Minimum Value: <input type="text"/>	Type: Continuous
Category: <input type="text"/>	Target Value: <input type="text"/>	Create Cancel

Local INDICATOR

SAP Characteristics
<ul style="list-style-type: none">Created in SAP S/4HANA within the equipment class to define the parameters to be measured.Represents the technical property of the object being monitored in SAP APMExample: In a boiler, you could create a characteristic called "Outlet Pressure" with a unit of measure in bar or psi

Positions & Category
<ul style="list-style-type: none">Position: Defines the location within the technical object where the indicator is.Category: Classifies the purpose of the indicator

Values & Decimal Place
<ul style="list-style-type: none">Max/Min Value: Allowed measurement range.Target Value: Ideal operating value.Place Decimal: Number of decimal places displayed.

Type
Determines the type of measurement for the indicator. <ul style="list-style-type: none">Continuous: Measures values that change over time (Example: pressure, temperature).Discrete: Fixed or categorical values (Example: ON/OFF, valve status).

How to create a Local Indicator?

Step by Step

Insert Data Manually

Boiler 01
10000945

Category: Machines (M)
Class: PIROTUBULAR BOILERS (PIROTUBULARBOILERS)
Object Type: Mechanical (OG02)

Risk Score	Criticality	Status
Object B (B)	Installed	

Information Class – Characteristics Indicators Indicator Monitoring Analytics

Indicators (4) Standard Search Create Add New Value Configure

PRESSURE_OUTLET_O...	PRESSURE_OUTLET_O...	Fluid temperature
PRESSURE_OUTLET_OPERATING	PRESSURE_OUTLET_OPERATING	FLUIDTEMPERATURE
BOILER OUTLET	STEAM OULET	1
MeasPoint (general) (M)	MeasPoint (general) (M)	MeasPoint (general) (M)

Add New Indicator Value

New Value: *

°C

Date and Time: *

Select date and time

Save Cancel

How to create a Local Indicator? Step by Step

The screenshot shows the SAP Asset Data and Information Management interface. The top navigation bar includes links for Home, Asset Data and Information Management, Asset Risk Assessment, Asset Reliability Engineering, Asset Health Monitoring, Asset Performance Analysis, and Administration and Configuration. The main content area is divided into several sections:

- Asset Data and Information Management:**
 - Explore Technical Objects: 685
 - Manage Technical Object Groups: 3
 - Manage Reference Designator Libraries: ... Error
 - Manage Industrial Systems: ... Error
- Asset Risk Assessment:**
 - Manage Risk & Criticality Assessments: 39
 - Manage Templates for Risk & Criticality Assessments: 36
- Asset Reliability Engineering:**
 - Manage FMEA Assessments
 - Manage RCM Assessments
 - Manage Recommendations
 - Implement Recommendations
 - Manage Strategy Assessment for Classes

PostMan Workflow



Copy/Paste Token

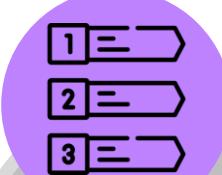
POSTMAN

DATA

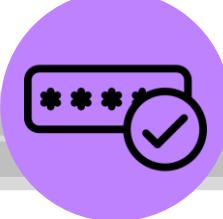
POSTMAN -SAP APM



Get Indicators
Information



Generate
TOKEN



accenture

DATA



Simulate
Data



Convert data to
JSON format



View data on
SAP APM



Insert
converted
data to "Post"

Postman

Get Token

The screenshot shows the Postman application interface. On the left, there's a sidebar with sections for Collections, Environments, Flows, and History. Under the 'Auth' section, a 'GET GetToken' request is highlighted with a purple box. The main workspace shows an 'Auth / GetToken' request with the method set to 'GET' and the URL as 'https://accenture-sapiam-assetdevinitiative.authentication.eu10.hana.ondemand.com'. The 'Auth Type' is set to 'Basic Auth'. Below the URL, there's a note about sensitive data and variables. The 'Body' tab shows a JSON response with a long string of characters.

1

2

Click on
“Send” to
generate
token.
Then, copy
token code.

Postman

Get Indicators info

The screenshot shows the Postman application interface. On the left, the sidebar displays collections, environments, flows, and history. Under the 'Auth' collection, the 'GET Indicadores' endpoint is selected and highlighted with a purple box. In the main workspace, a GET request is configured for the URL `https://api-apm.prod.apimanagement.eu10.hana.ondemand.com/IndicatorService/Indicadores`. The 'Auth Type' is set to 'Bearer Token'. A tooltip message states: 'Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables.' Below the request, the response body is shown in JSON format, containing a list of indicator objects. The response status is 200 OK.

1. Copy token in "Auth"
2. Then, click on "Send" to obtain indicators information.

3. Response Body:

```
[{"id": 626, "name": "Indicador 1", "description": "Este es el primer indicador.", "value": 100, "type": "CONTINUOUS", "calculationType": null, "source": "IAMCLNT100"}, {"id": 627, "name": "Indicador 2", "description": "Este es el segundo indicador.", "value": 150, "type": "CONTINUOUS", "calculationType": null, "source": "IAMCLNT100"}, {"id": 628, "name": "Indicador 3", "description": "Este es el tercer indicador.", "value": 200, "type": "CONTINUOUS", "calculationType": null, "source": "IAMCLNT100"}, {"id": 629, "name": "Indicador 4", "description": "Este es el cuarto indicador.", "value": 250, "type": "CONTINUOUS", "calculationType": null, "source": "IAMCLNT100"}, {"id": 630, "name": "Indicador 5", "description": "Este es el quinto indicador.", "value": 300, "type": "CONTINUOUS", "calculationType": null, "source": "IAMCLNT100"}]
```

Postman

Get Indicators info

The screenshot shows the Postman application interface. On the left, the sidebar displays collections, environments, flows, and history. The main area shows a collection named "SAP IAM" with various endpoints listed under categories like Auth, Indicadores, and Medicoes. A specific endpoint, "GET Indicadores", is selected and expanded. The request details show a GET method and a URL: <https://api-apm.prod.apimanagement.eu10.hana.ondemand.com/IndicatorService/Indicadores>. The response status is 200 OK, with a response time of 1.84 seconds and a size of 44.18 KB. The response body is displayed in JSON format, showing a single indicator object with fields such as ID, created_at, created_by, modified_at, modified_by, measuring_point_id, technical_object_number, technical_object_SSID, technical_object_type, technical_object_technical_object, category_SSID, category_name, characteristics_SSID, characteristics_characteristics_Internal_Id, and position_details_ID.

```
[{"ID": "4bf42bbb-a76c-4839-b397-fc3a4227af62", "createdAt": "2025-02-24T18:33:51.065958300Z", "createdBy": "denise.colaso@accenture.com", "modifiedAt": "2025-02-24T18:33:51.073333400Z", "modifiedBy": "denise.colaso@accenture.com", "measuringPointId": null, "technicalObject_number": "10232192", "technicalObject_SSID": "IAMCLNT100", "technicalObject_type": "EQUI", "technicalObject_technicalObject": "10232192", "category_SSID": "IAMCLNT100", "category_name": "M", "characteristics_SSID": "IAMCLNT100", "characteristics_characteristicsInternalId": "1031", "positionDetails_ID": "d029fe06644448169184ef5c7cf700f0"}]
```

Postman

Post Values

The screenshot shows the Postman application interface. On the left, the sidebar displays collections, environments, flows, and history. Under the 'Auth' collection, there is a 'POST Indicadores' request highlighted with a purple border. The main workspace shows an 'HTTP Medicoes / Indicadores' request. The 'Auth Type' is set to 'Bearer Token'. A tooltip message says: 'Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables.' Below the tooltip, a 'Token' field contains a long string of characters, which is also highlighted with a purple border and has a large black circle with a white 'i' icon over it. At the bottom, the response status is '201 Created'.

Copy token
code in "Auth"

Postman

Post Values

The screenshot shows the Postman application interface. On the left, the sidebar displays collections, environments, flows, and history. The main workspace is titled "SAP IAM" and shows a list of API endpoints. A specific POST request to "Indicadores" is selected. The request details show a URL: `https://api-apm.prod.apimanagement.eu10.hana.ondemand.com/TimeseriesServ...`, method: POST, and status: 201 Created. The "Body" tab is selected, showing a JSON payload. The payload content is:

```
{  
    "SSID": "IAMCLNT100",  
    "technicalObjectType": "EQUI",  
    "technicalObjectNumber": "10232181",  
    "categoryName": "M",  
    "positionID": "13115d56e3a746029da78ff361fc6139",  
    "fromTime": "1970-01-01T00:00:00Z",  
    "toTime": "2025-02-21T15:25:28.952Z",  
    "values": [  
        {  
            "characteristicsInternalId": "1026",  
            "value": "18.159879",  
            "time": "2025-02-01T00:00:00Z"  
        },  
        {  
            "characteristicsInternalId": "1026",  
            "value": "25.513477",  
            "time": "2025-02-01T00:00:00Z"  
        }  
    ]  
}
```

Three numbered callouts point to specific areas: 1 points to the JSON code, 2 points to the "Send" button, and 3 points to the "Headers" tab.

Updated indicator's information, copy values with JSON format
Then, click on "Send" to migrate information