

User Guide  
Focused Insights for SAP Solution Manager  
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# OCC Dashboard 7.2 User Guide

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# Document History

Version	Date	Change
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1.1	2017-07-05	Add new Data Providers
1.2	2017-07-31	Support Package 1 (SP01)
1.3	2018-06-28	OCC Unified Dashboard
1.4	2019-02-21	Support Package 3 (SP03)
1.5	2019-08-09	Support Package 4 (SP04)
2.5	2020-01-20	Support Package 5 (SP05)

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# 1 Overview

This document details the usage, configuration and administration of OCC Dashboard. OCC Dashboard is one of the dashboard models delivered with Focused Insights for Solution Manager.

OCC Dashboard let you create in a convenient and simple way, appealing and powerful dashboards with direct access to most important metrics stored inside your Solution Manager. It is easy to create fully custom views which display and mix up those metrics in different time frames and different granularities.

You can build as many gadgets and dashboard instances as you want and publish those using dedicated URLs. Most common web browsers whether they run on a computer or on mobile devices can display OCC dashboards (for details, see also SAP note 1716423 - SAPUI5 Browser Support).

OCC Dashboard includes an auto refresh mechanism to be integrated easily in your operation control center.

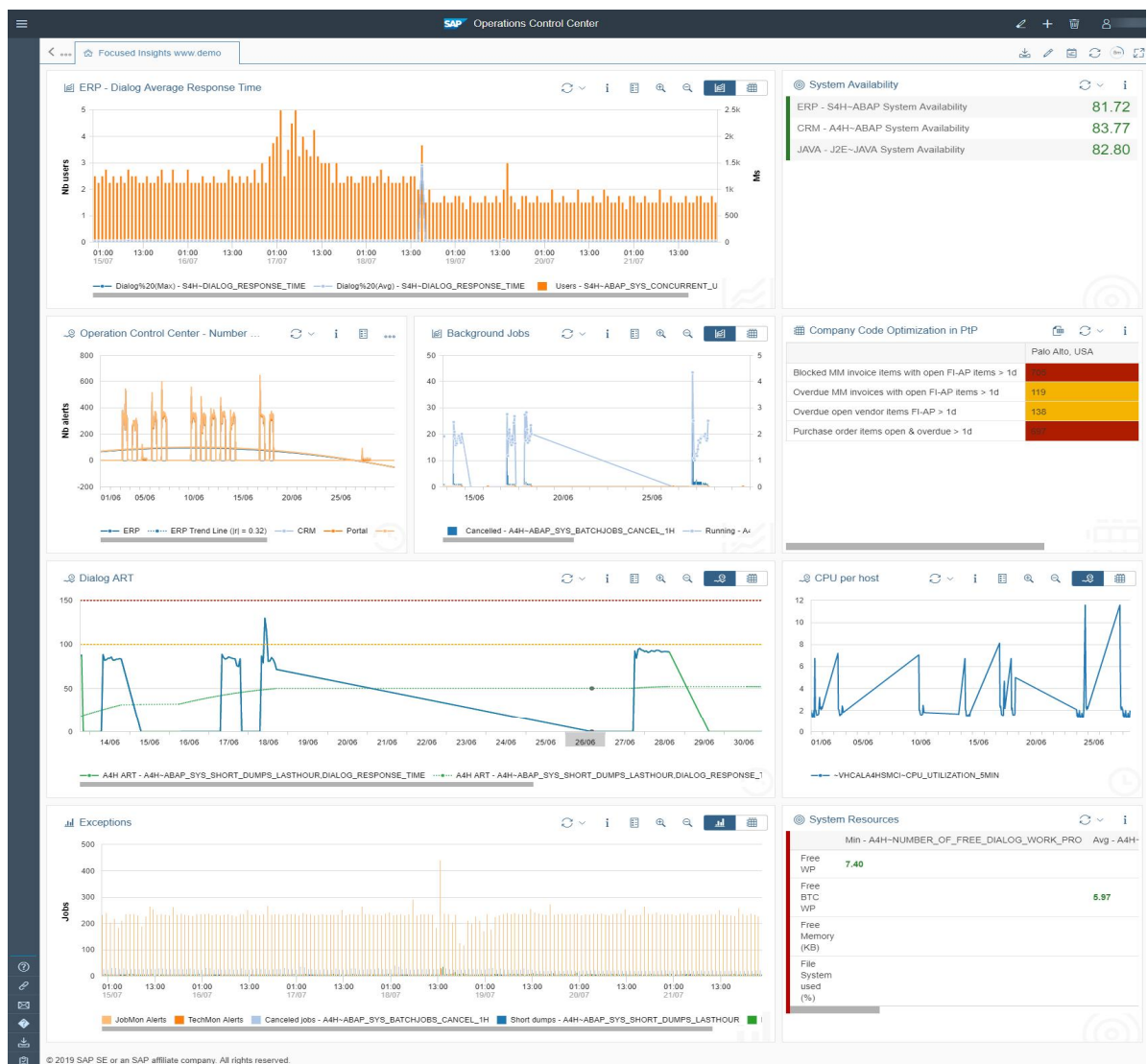


Figure 1. UI View

## 2 Usage

The OCC Dashboard relies on two main graphical components:

- Dashboard: A free-defined row-column layout combining different graphical charts named 'Gadgets'. You can create and distribute different dashboards via URLs and control the access to your dashboards via SAP authorization.
- Gadget: Charting capabilities that could be shared via multiple dashboards.

A Gadget supports multiple data providers and data renderers.

- The data providers correspond to the different reporting/monitoring use-cases in SAP Solution Manager such as System Monitoring, EEM, and BPA, BPMon...
- The data renderers are grouped into a library of graphical components used to visualize the different data sources. You can select different graphs as line-chart, bar-chart, ...

In addition, time frame selection could be applied to a single gadget or an entire dashboard.

### 2.1 Direct Access URLs

To access directly a specific dashboard instance, use the following notation, where <ID> is the unique identifier of the dashboard instance.

Remark: This direct URL is built automatically in the address bar when you navigate to the dashboard instance.

[https://<solman\\_host>:<solman\\_port>/sap/bc/ui5\\_ui5/stdf/occ\\_dash/index.html?configId=<ID>](https://<solman_host>:<solman_port>/sap/bc/ui5_ui5/stdf/occ_dash/index.html?configId=<ID>)

To access directly a specific gadget, you can use the following notation, where <ID> is the unique identifier of the dashboard instance and <ID\_GADGET> is the unique identifier of a gadget it contains. Remark: This direct URL is built automatically in the address bar when you navigate to the gadget.

[https://<solman\\_host>:<solman\\_port>/sap/bc/ui5\\_ui5/stdf/occ\\_dash/index.html?configId=<ID>-<ID\\_GADGET>](https://<solman_host>:<solman_port>/sap/bc/ui5_ui5/stdf/occ_dash/index.html?configId=<ID>-<ID_GADGET>)

To access to several dashboards in the same time, you can use the following notation where <ID1>, <ID2>, <ID3>... are unique dashboard instance's identifier. From this URL it is also possible to manually navigate from one dashboard instance to the other using the arrows.

[https://<solman\\_host>:<solman\\_port>/sap/bc/ui5\\_ui5/stdf/occ\\_dash/index.html?configId=<ID1>,<ID2>,<ID3>...](https://<solman_host>:<solman_port>/sap/bc/ui5_ui5/stdf/occ_dash/index.html?configId=<ID1>,<ID2>,<ID3>...)

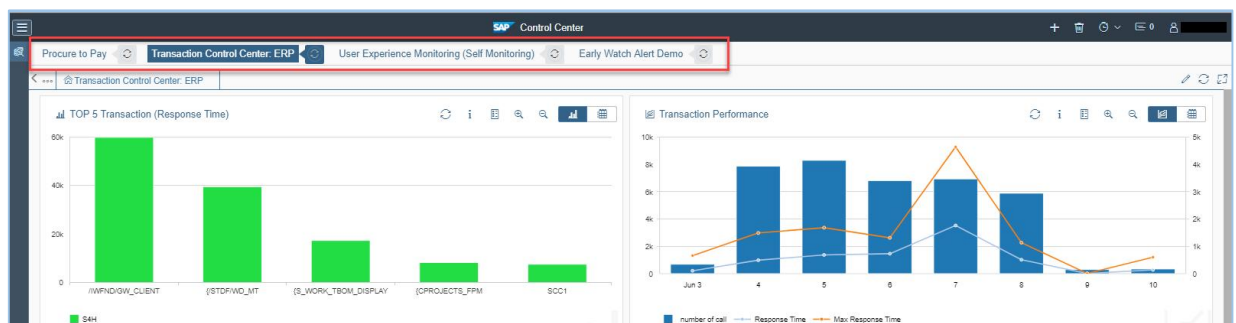


Figure 2. Instances View

## Note

The classic version of the OCC dashboard is deprecated and replaced with a redirection page to the new version.

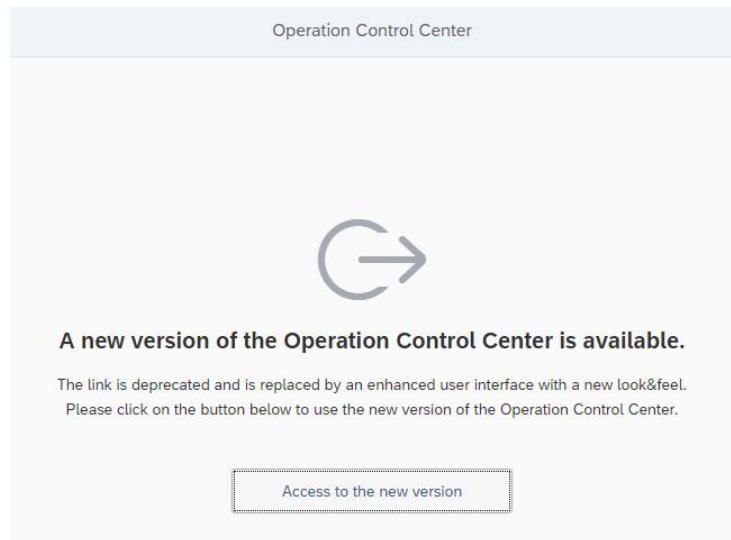


Figure 3. Redirection Page

## 2.2 Zooming in on a Gadget

To zoom in on a gadget, just click on its title.

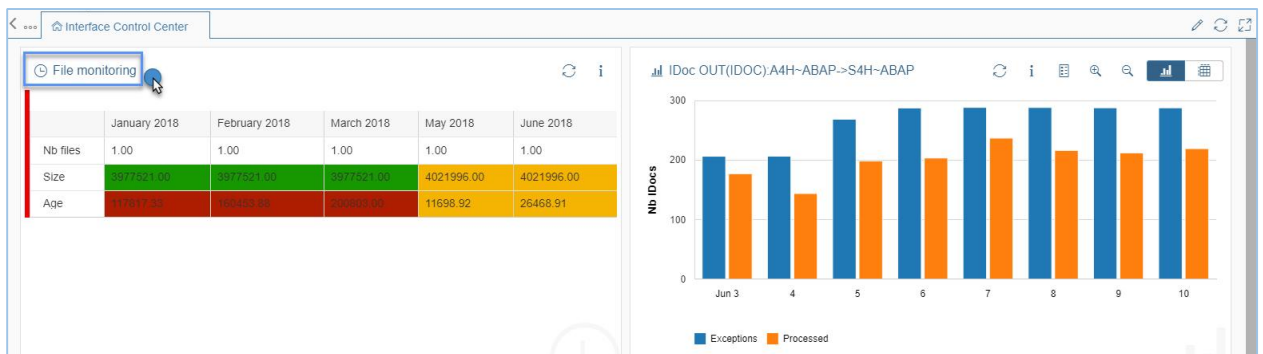


Figure 4. Zoom a gadget (1)

To come back to the dashboard, click on the dashboard's title in the breadcrumb.

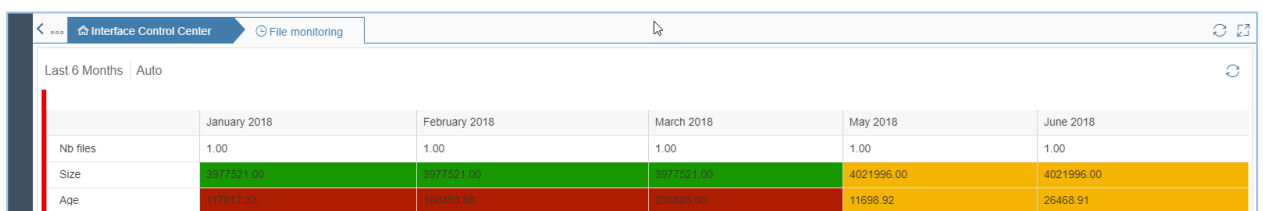


Figure 5. Zoom a gadget (2)



## 3 Dashboard

### 3.1 Instance View

The first view is the Instance View. The dashboard will show level 1 items by instances. You can access it by using Focused Insights Launchpad as follow:

- Select OCC tile.

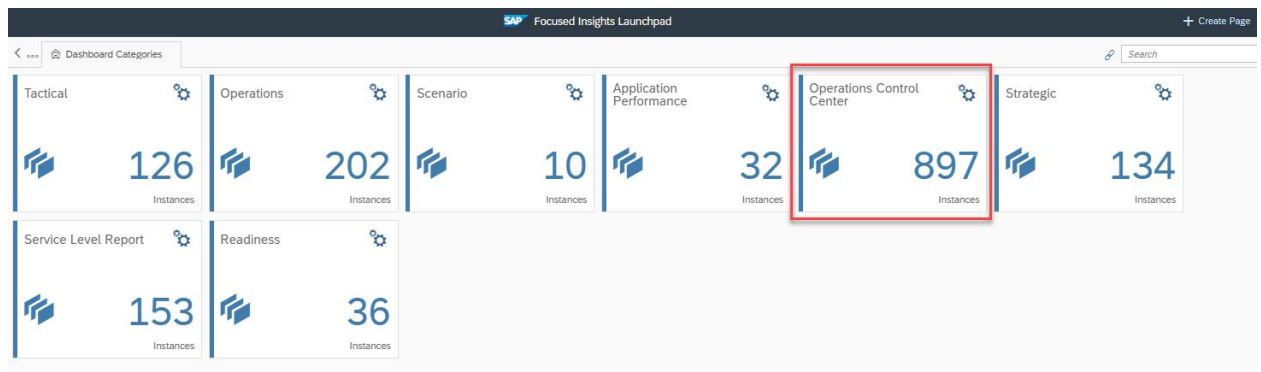


Figure 6. Select OCC Tile

Select the instance you want to go to, and select button Go to Dashboard.

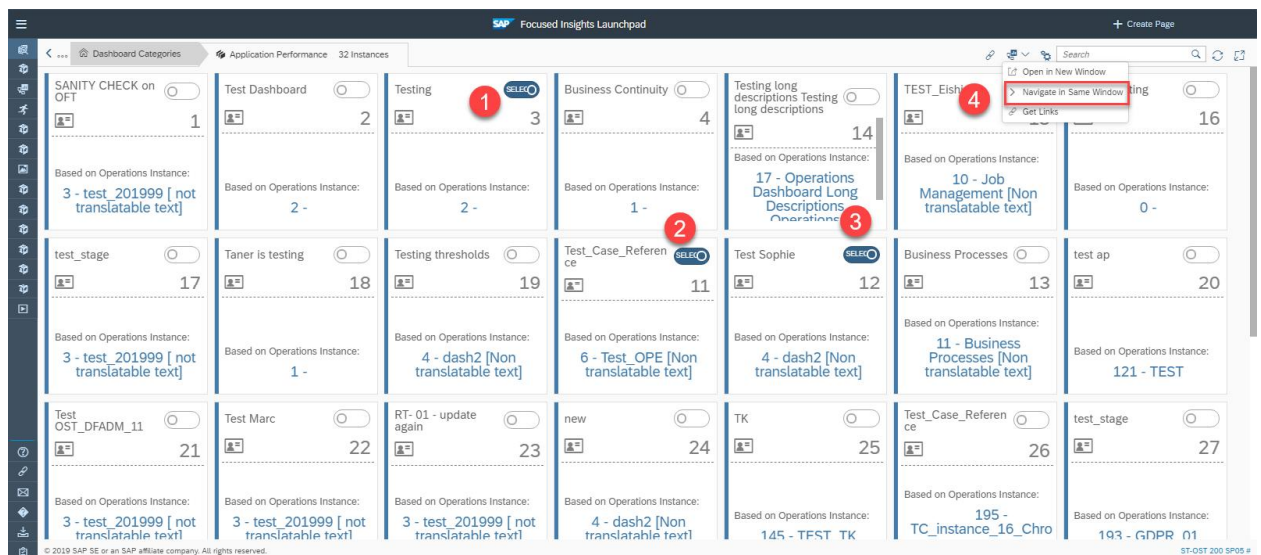


Figure 7. Select instances



Once inside the dashboard with selected instances, you will see as below:

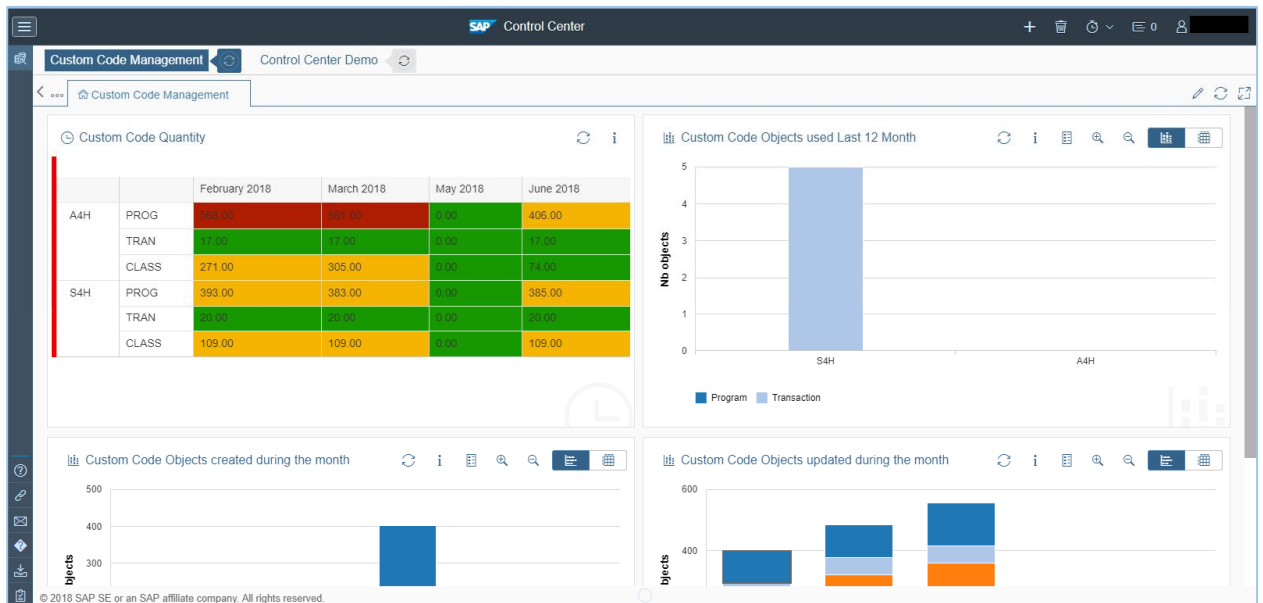


Figure 8. OCC Dashboard: Instances View

The dashboard is showing each instance in the instance selection header. You can switch between instances by clicking the title of the instance. Each instance is composed of several gadgets.

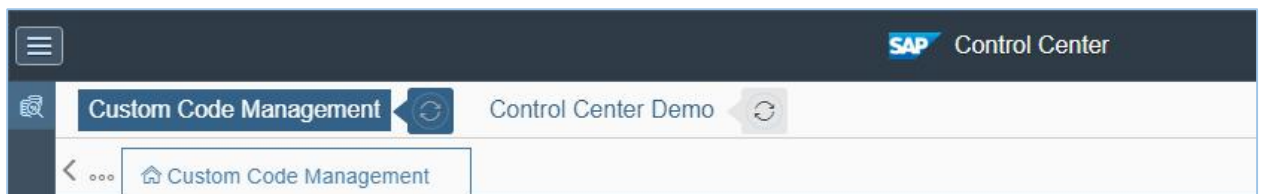


Figure 9. Instance Selection Header

## 3.2 Dashboard Layout

When you enter the application, if not a specified configid is added to the application URL , the user is able to configure a new instance else he access to the selected dashboard content.

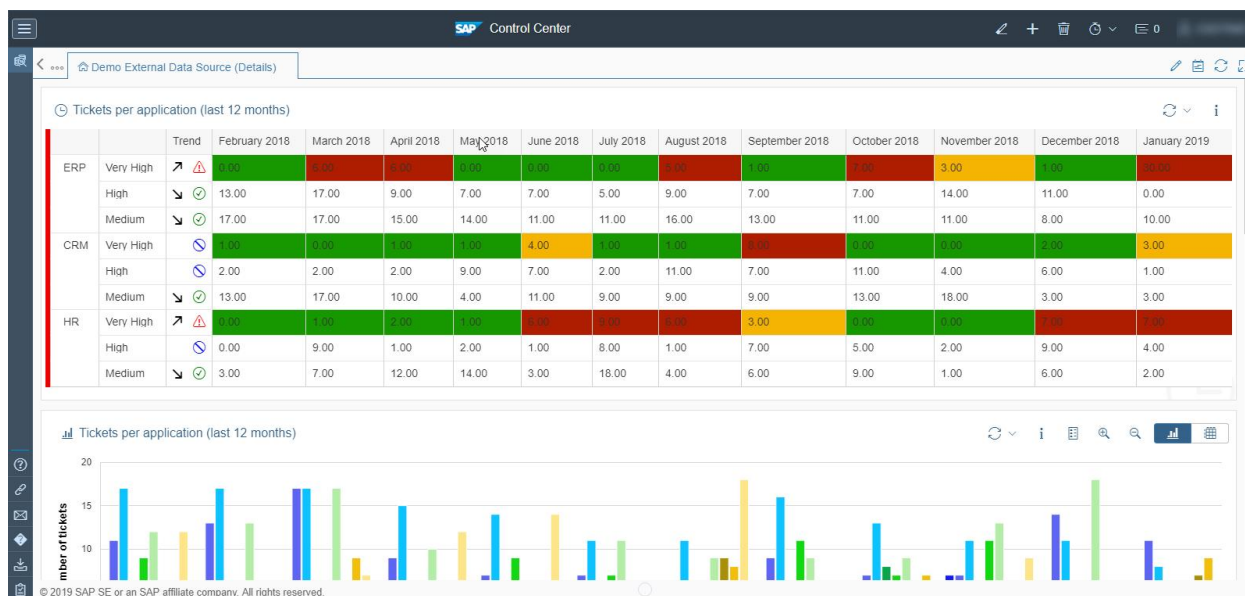


Figure 10. Dashboard Layout

### 3.3 TNT/ UOC Shell Header and URL parameters

The header is composed of:

- 1- The button "Toggle side Navigation" to hide or show the description of the buttons on the left side
- 2- SAP Logo.
- 3- Dashboard Model Name: Control Center.
- 4- User Settings button with user name as label. When chosen, it provides settings that user can set for the dashboard:

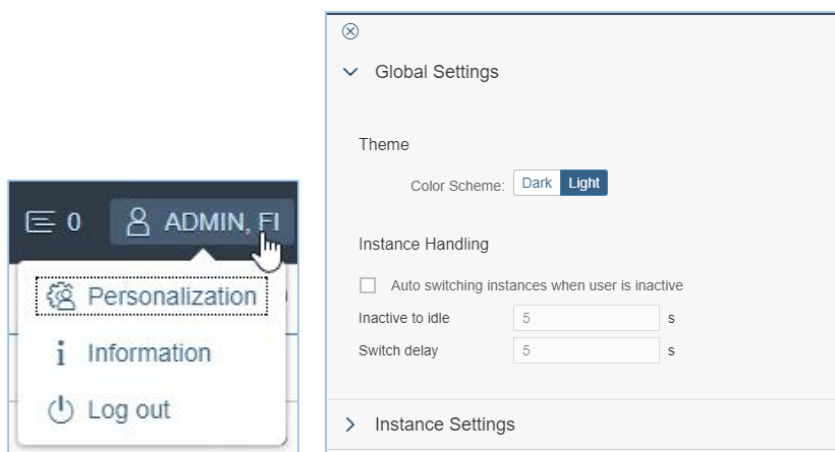


Figure 11. User Settings Dialog

- Global Settings:

You can choose the color scheme either Light (default selected), or Dark as in image below.

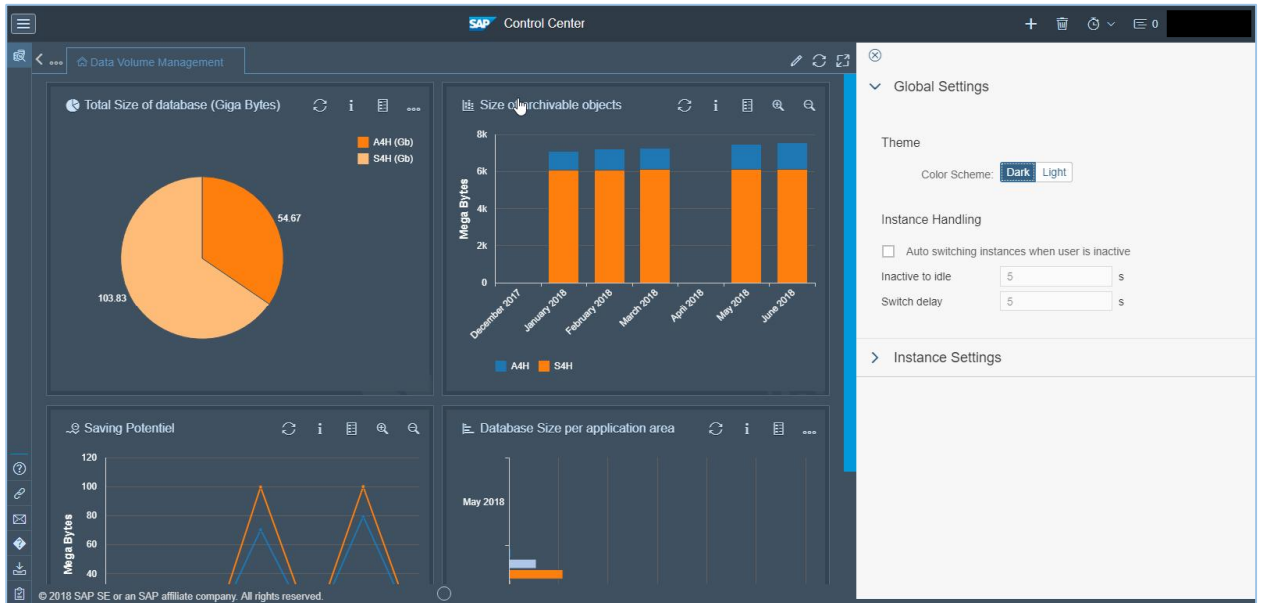


Figure 12. OCC Dashboard: Dark Theme

- 5- The header also has the timer control which apply globally to all the refresh timers of all instances. Select the button, you will see the list of possible controls on the timers as shown in image below

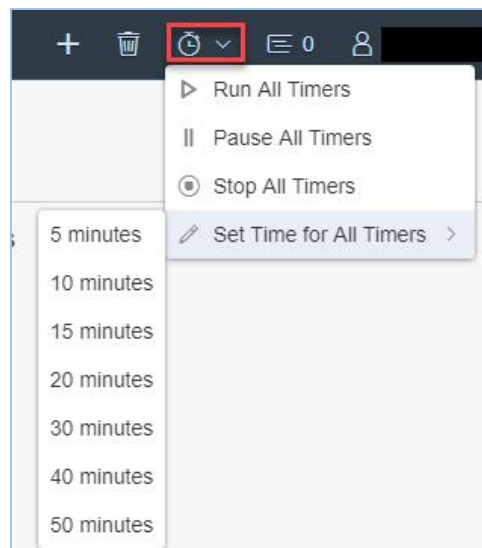


Figure 13. Instance Timers Controls

Each instance will have its own refresh timer, which shows as a circle with refresh icon inside next to the instance name. You can click on the refresh icon to manually refresh the data of the instance. This will not reset the time of the timer.

- 6- The header also has the two buttons which permit to create new instances or to delete selected instance.



Figure 14. Instance Administration

## URL parameters:

The user can persist the below URL parameters when calling a dashboard instance:

- **&colorscheme=dark** to select the dark mode.
- **&fullscreen=true** starts dashboard in full screen.
- **&autoSwitchOnIdle=true** starts the dashboard in carousel mode.
  - The maximum number of messages to store in the message dialog.
  - The Auto Switching of Instances feature if checked:
    - o By setting the inactive time for the dashboard to determine user is idle to activate the function.
    - o And time waiting between switch of instances
- **&hardRefresh = X '** (X = number of hours) This option is used in order to clear the browser cache after a configurable period.
  - Ø In IE, the Browser will be closed and restarted again in order to reinitialize the memory.
  - Ø In chrome and other browsers, the browser will be refreshed after the X hours.

## 3.4 Left Utilities Pane

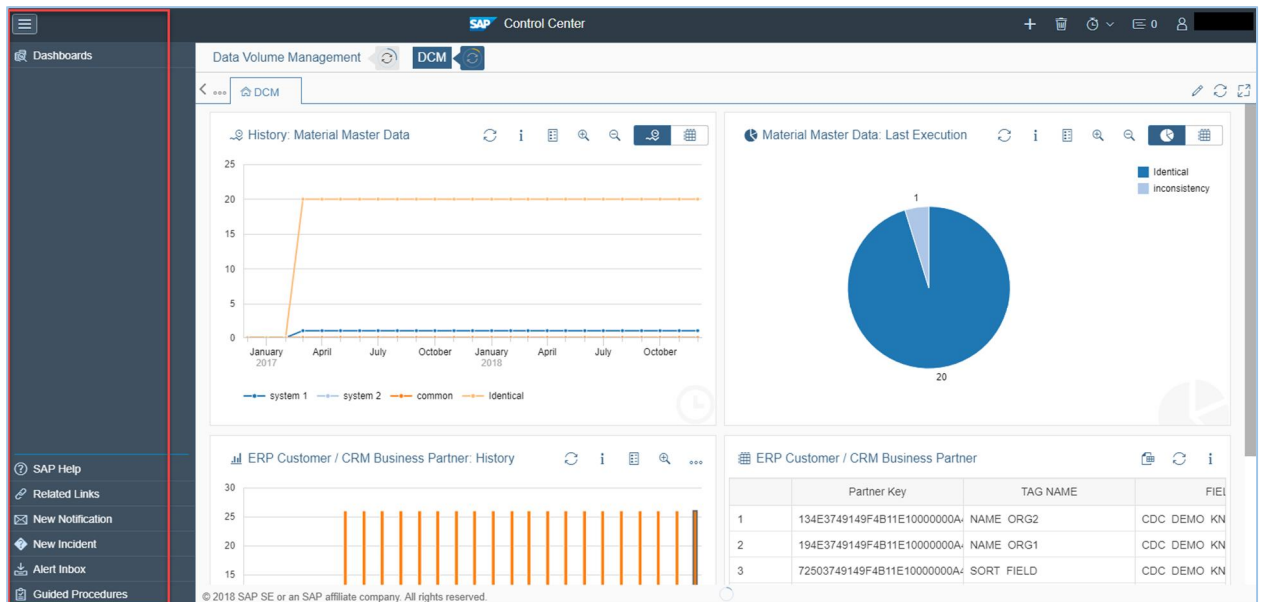


Figure 15. Left Utilities Pane

- 1- The button "Toggle side Navigation" to hide or show the description of the buttons on the left side
- 2- The "SAP Help" button is used to be redirected to SAP help page.

- 3- When using the “New Notification” button a pop up is appearing to create the new notification and send it via SMS or E-mail.

Figure 16. Create notification

- 4- When using the “New Incident” button a pop up is appearing to choose the incident type and enter the incident details.

Incident Type	Description
ZMIN	Zincident
SMIN	Incident (IT Service Management)
SMFG	Functional Gap (ICC)
SMDT	Test Case Error
SMOR	Monitoring Requirement
S1DM	Defect

Figure 17. Create Incident

- 5- The “Alert Inbox” button is used to be redirected to the system alert Webdynpro.

Alert Name	Category	Managed Object	Type	Ext. System ID	TS Type	Instance Description	Current	Priority	Worst	Sold-To Party	Total	Changes	Problem Analysis	Status
ABAP System not available		A4H-ABAP	A4H	ABAP				Very high			10882	2		
Disabled Metrics		HDB00002	HDB	HDB00002				Very high			5003	8		
Database Recoverability (log mode OVERWRITE)		HDB00001	HDB	HDB00001				Very high			5610	13		
ABAP Instance not available		A4H-ABAP-vhcala4hsmcd_A4H_00	A4H	ABAP		vhcala4hsmcd_A4H_00		Very high			17	1		
											19512	3		

Figure 18. Alert Inbox

- 6- The “Guided Procedures” button is used to be redirected to the Guided Procedure list of All Application Areas

Name	Description	Version	Last Executed By	Last Executed On	GP Plans	Active	Productive	Hidden
Track Projects	Track Projects	2		00.00.0000 00.00.00		●	✓	<input type="checkbox"/>
Prioritized Objects: Create New Analysis	Create Decision Maker Analysis	2		00.00.0000 00.00.00		●	✓	<input type="checkbox"/>
Extra Solution Documentation Content Activations	Perform additional Solution Documentation Content Activation runs	6		00.00.0000 00.00.00		●	✓	<input type="checkbox"/>
OVERDUE_DELIVERIES	Outbound Deliveries overdue for GI	4	BPOP_CONFIG	26.03.2018 13:37:43		●		<input type="checkbox"/>
GP for Incomplete Sales Documents	GP for Incomplete Sales Orders	3		00.00.0000 00.00.00		◇		<input type="checkbox"/>
Onboarding a new hire	Onboarding a new hire	1		00.00.0000 00.00.00		●		<input type="checkbox"/>
Handling Enqueue Alerts	Handling Enqueue Alerts	5		00.00.0000 00.00.00		●	✓	<input type="checkbox"/>
GP for Incomplete Sales Documents	GP for Incomplete Sales Orders	2		00.00.0000 00.00.00		●		<input type="checkbox"/>
HANA Alert 35: Check data backup exists	HANA Alert 03 Check inactive services	13		00.00.0000 00.00.00		●	✓	<input type="checkbox"/>

Figure 19. Guided Procedure

## 3.5 The Footer

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Figure 20. The footer

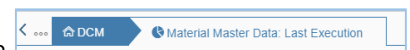
The footer contains the Copyright in the left area.

## 3.6 The Content Area

The content area is in the middle-center of the dashboard. This is where you see the content of the selected instance.

This area is covered by the navigator which contains:

- 1- Navigating items: which show where you are, and where you are from



- 2- The toggle Edit Mode button



- 3- The full screen button



which allows you to show only the content area.

- 4- The Refresh Button



- 5- The set dashboard's global time range



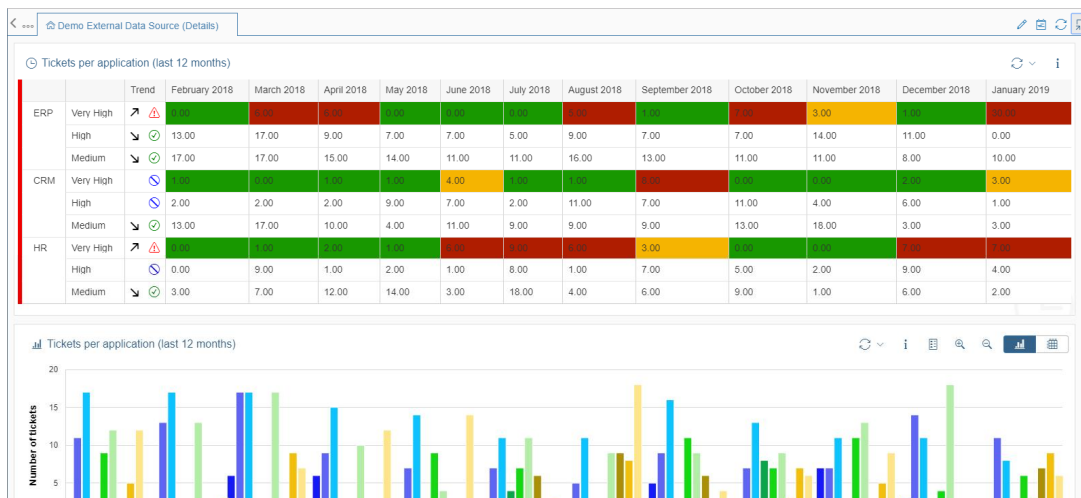


Figure 21. Content Area

## 3.7 Gadgets

The default period and default resolution are defined at the dashboard level in the dashboard settings tabs:

Figure 22 shows the "Dashboard Settings" form. The form includes the following fields:

- Title:** Performance
- Columns:** 3
- Rows:** 3
- Time Range:**
  - Period:** Auto
  - Resolution:** Auto

Figure 22. Set Dashboard's Global Time Range

It can be overridden at the gadget level in the **gadget settings** tab



Figure 23 shows the 'Gadget Settings' dialog box. The 'Time Range' tab is selected, indicated by a blue underline and a blue circle icon with a calendar symbol. The 'Period' dropdown is set to 'Last Month' and the 'Resolution' dropdown is set to 'Week'.

Figure 23. Set gadget's Time Range

At runtime, we can choose a time range using the button set dashboard's global time range but this is only applicable with the gadgets which had auto as period and auto as resolution and only the display of the gadget will be changed. The configuration should still the same (Auto/Auto).

Figure 24 shows the 'Set Dashboard's Global Time Range' dialog box. It has a title bar and a 'Display Global Time Range' button with a red 'X' icon. Below the title bar is a 'Time Range' section. The 'Period' dropdown is set to 'Last Week' and the 'Resolution' dropdown is set to 'Day'. At the bottom, there are 'Apply' and 'Cancel' buttons.

Figure 24. Set Dashboard's Global Time Range

After zooming in the gadget, the last update date is on the bottom of the gadget.

The dashboard's time frame is indicated in the top of every gadget.

It contains:

- 1- The period
- 2- The resolution

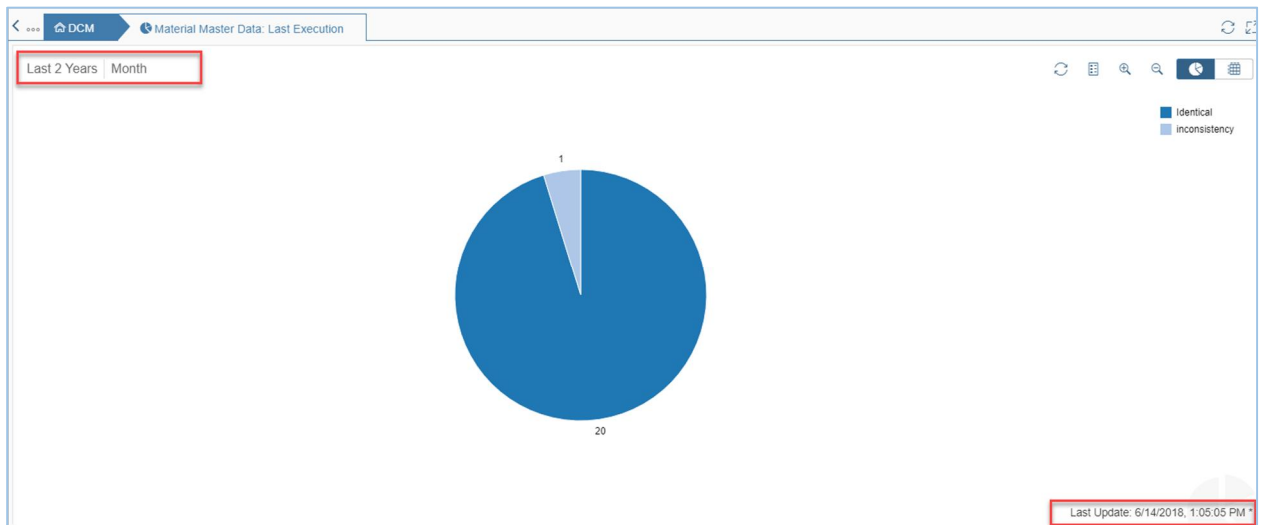


Figure 25. Gadget time frame

The refresh of gadget data is done by the Refresh button and the user can whether to refresh it (this will get the data from the cache if the data are still valid for the selected period/resolution) and to hard reload the gadget (always bypasses the cache).

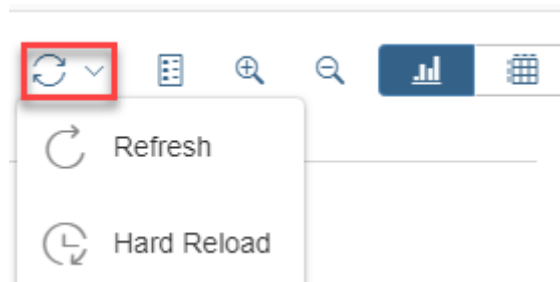


Figure 26. Refresh and Hard Reload buttons

## 4 Configuration

### 4.1 Creating a dashboard

To create a new dashboard, click on the button "Create New Instance" button.

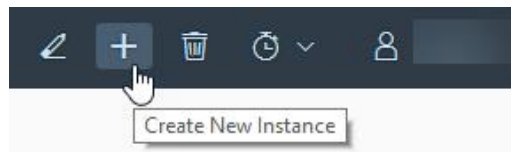
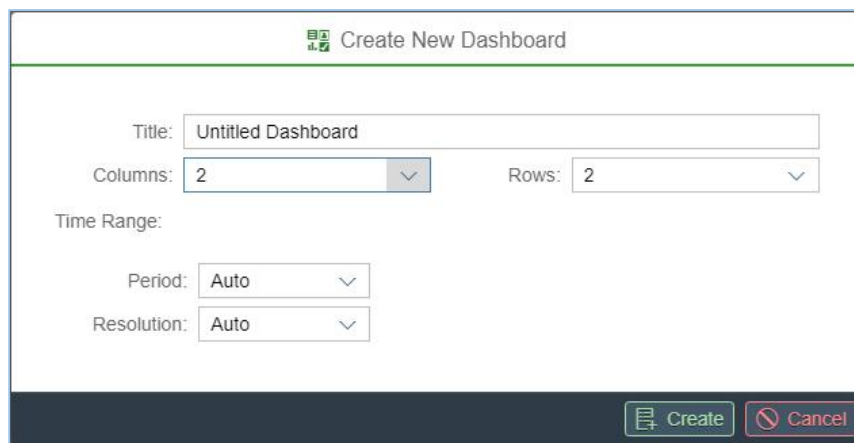


Figure 27. Create new instance

A popup setting is displayed. You should choose several information:

- 1- Title: This is the title of the dashboard
- 2- Columns, Rows: If you select for example 2 columns and 3 rows, your dashboard will contain  $2 \times 3 = 6$  gadgets
- 3- Time range: You can optionally choose the time range for the dashboard (period and resolution)

A screenshot of a "Create New Dashboard" popup window. The title bar says "Create New Dashboard" with a small icon. The form contains the following fields:

- Title: A text input field with "Untitled Dashboard" entered.
- Columns: A dropdown menu showing "2".
- Rows: A dropdown menu showing "2".
- Time Range: A section with two sub-fields:
  - Period: A dropdown menu showing "Auto".
  - Resolution: A dropdown menu showing "Auto".

At the bottom right, there are two buttons: "Create" (green) and "Cancel" (red).

Figure 28. Create New Dashboard Popup

### 4.2 Editing a dashboard

To edit an existing dashboard, you must first access it and then press the button edit. Then, you'll be able to edit gadgets settings.



Figure 29. Dashboard Edit button

After pressing the edit button, a new view is displayed containing on the right side the Gadget Settings. On the left side we can access to Dashboard Settings, Dashboard Layout and Galleries:

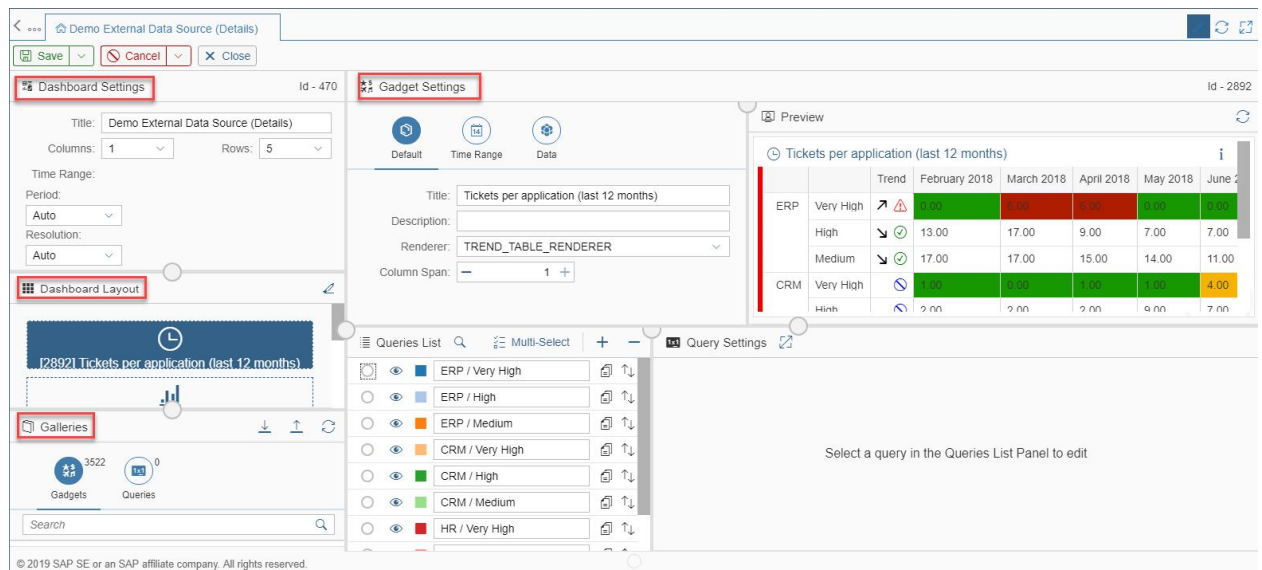


Figure 30. Dashboard Edit Mode

On the section Dashboard Settings, the dashboard id is displayed on the top right of the tab. You can edit several information:

- 1- Title
- 2- Columns, Rows
- 3- Time Range (Period and resolution)

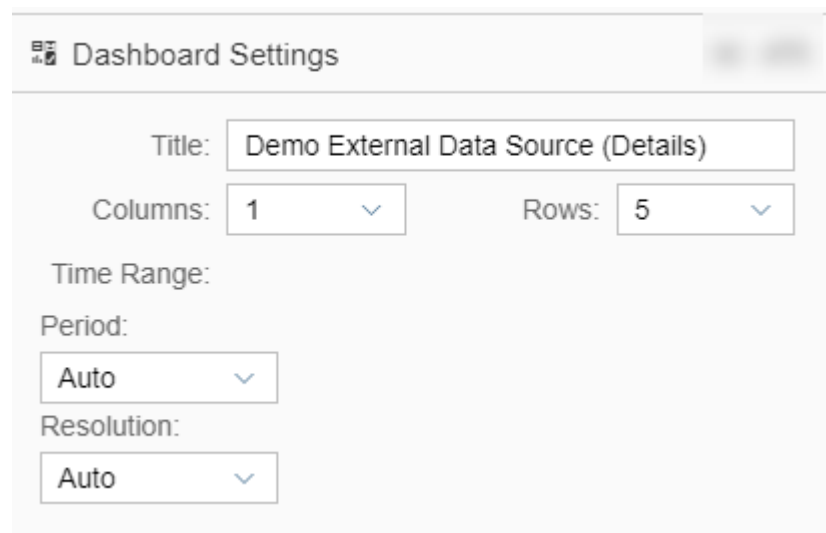


Figure 31. Dashboard Settings

On the section Dashboard Layout, we can see the list of the gadgets existing in the selected dashboard. Every gadget is represented by the title, the id and a figure corresponding to the used renderer.

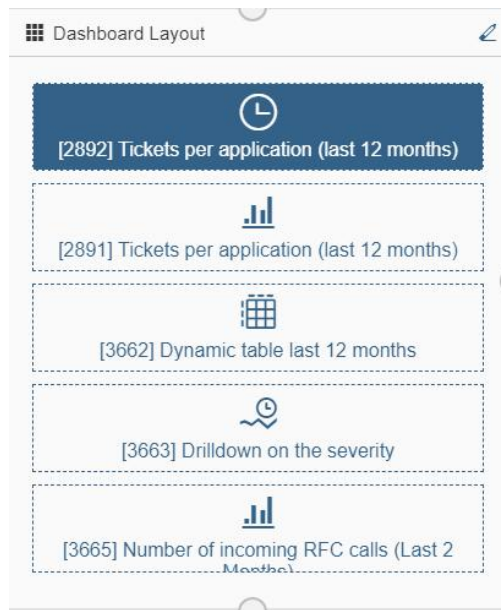


Figure 32. Dashboard Layout

You can reset a gadget to its initial phase using the button

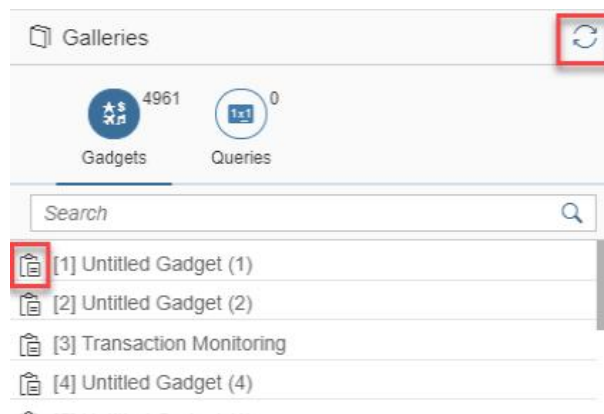


Figure 33. Galleries

You can also use the button Paste Gadget to paste a certain gadget in multiple dashboards.

If a gadget is empty the wanted gadget will be pasted directly

If a gadget is not empty a pop-up message containing two buttons (confirm and cancel) will appear.

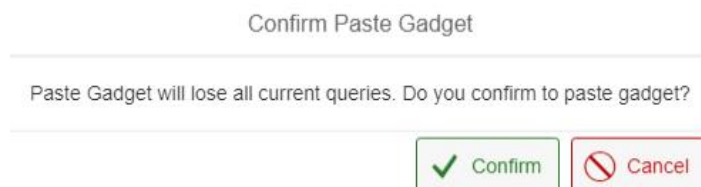


Figure 34. Confirm Paste Gadget Pop-up

If the user clicks on the button confirm the gadget will be pasted and if the user clicks on the button cancel nothing happens.

When the edit of the dashboard has been done you can choose to:

- 4- Save
- 5- Save and Close Editor
- 6- Cancel
- 7- Cancel and Close Editor
- 8- Close

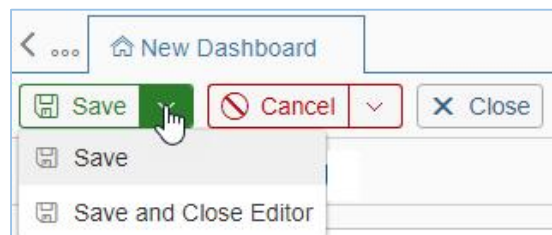


Figure 35. Edit Mode Bar

## 4.3 Deleting a dashboard

To delete a dashboard, click on the "Delete Selected Instance" button.

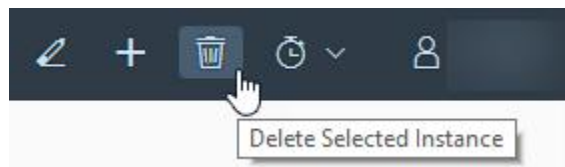


Figure 36. Deleting Dashboard

## 4.4 Editing Gadget Settings

To edit the Gadget Settings, you need first to switch to dashboard edit mode by pressing the button "Toggle edit mode" button. Then, choose the gadget to be edited from the section "Dashboard Layout".

The gadget settings are then displayed on the right side of the page.

The id of the gadget is displayed on the top right of the section gadget settings.

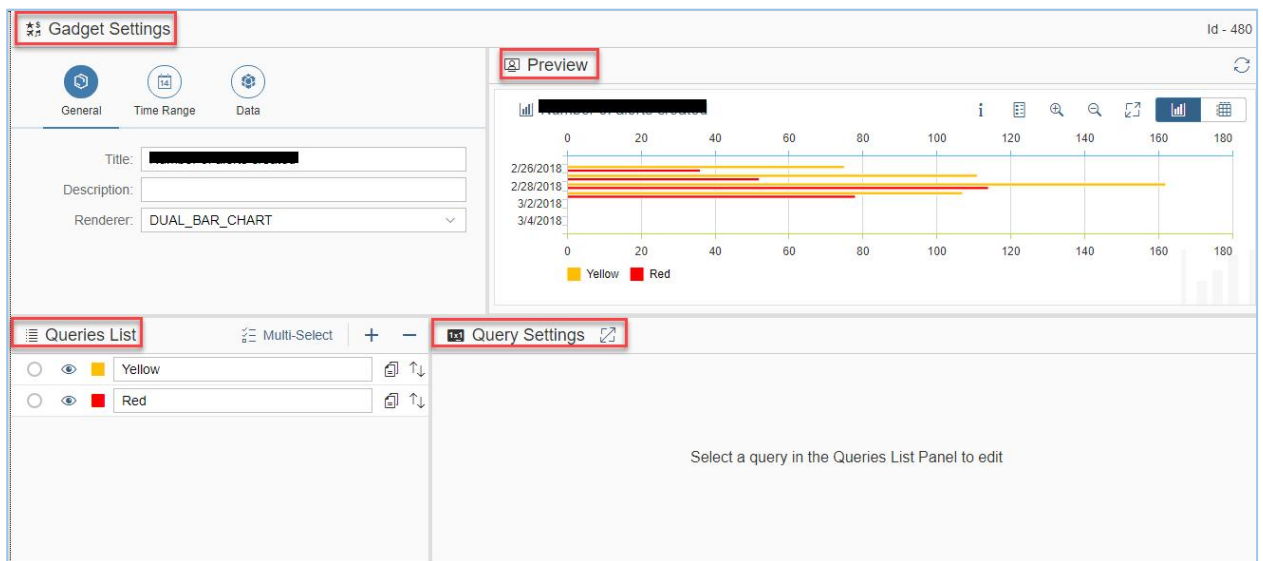


Figure 37. Gadget settings

- Ø The gadget settings are composed of three tabs:
  - General: You should edit the following fields: Title, Description, Renderer

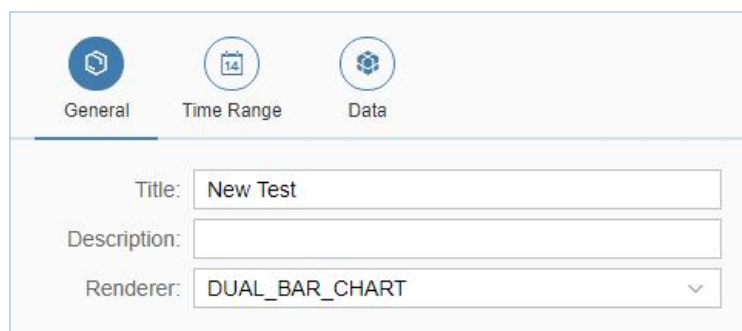


Figure 38. Gadget Settings General

- Time range: you can force the time range for the gadget. In this case, the gadget will ignore the dashboard's time frame.

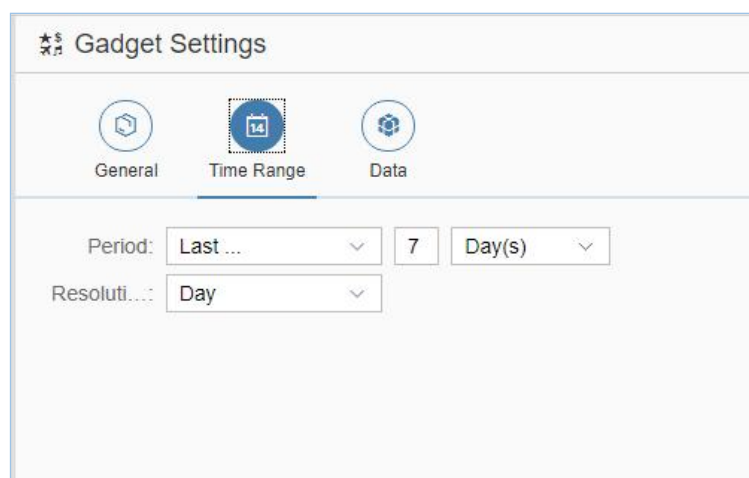


Figure 39. Time Range Tab



Note that if the gadget time range is "Auto|Auto", the gadget will inherit the global time range of the dashboard and a message strip will appear in the gadget time range configuration area. This message is a control that is used as an information bar.

**Gadget Settings**

Default Time Range Data

Period: Auto

Resolution: Auto

*When the gadget time range is auto/auto, the global time range will be applied.*

Figure 40. Time Range Values Auto/Auto

- Data: this tab is containing the fields:
  - Category unit
  - Value unit
  - Yellow threshold
  - Red threshold
  - Value max

**Gadget Settings**

General Time Range Data

Category Unit:

Value Unit:

Yellow Threshold:

Red Threshold:

Value Max:

Figure 41. Data Tab

- Ø The preview section: contains the gadget view with minimized size. You can update data via the refresh button.

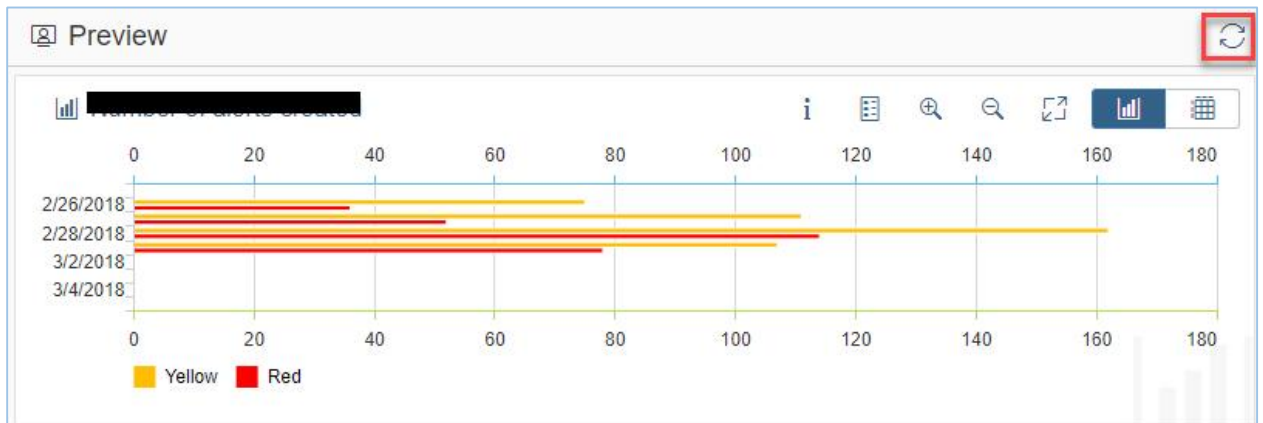


Figure 42. Preview section

- The queries section: The list of queries existing in the gadget. You can use one of these buttons to edit the list of queries: choose to select or unselect the queries.
  - ✓ The  button is used to add a query
  - ✓ The button  is used to delete a query
  - ✓ Select All queries
  - ✓ Deselect All queries
  - ✓ Toggle Multi-select

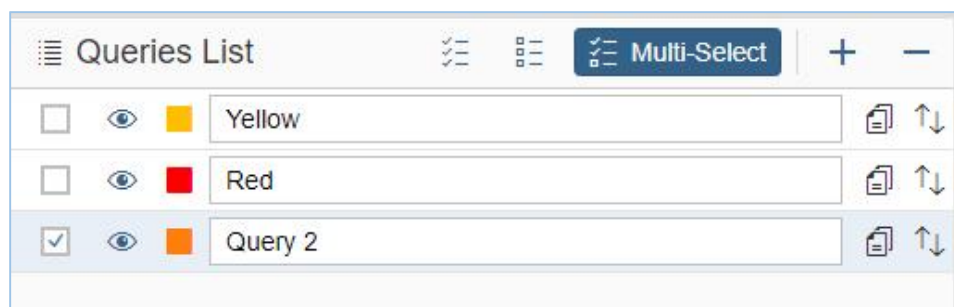


Figure 43. Queries list

For every query you can choose to:

- ✓ Copy the query
- ✓ Sort by Drag and Drop
- Query Settings: After selecting a query from the list, the settings are enabled with 3 tables:
  - **Content:** The configuration of the gadget strongly depends on the data provider you'll choose from the dropdown list

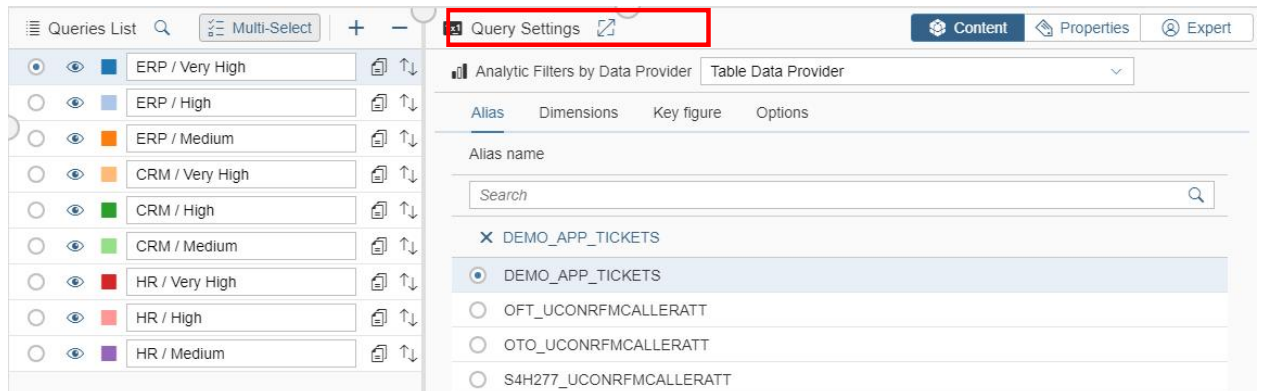


Figure 44. Query settings

- **Properties:** The properties Tab contains theses information:

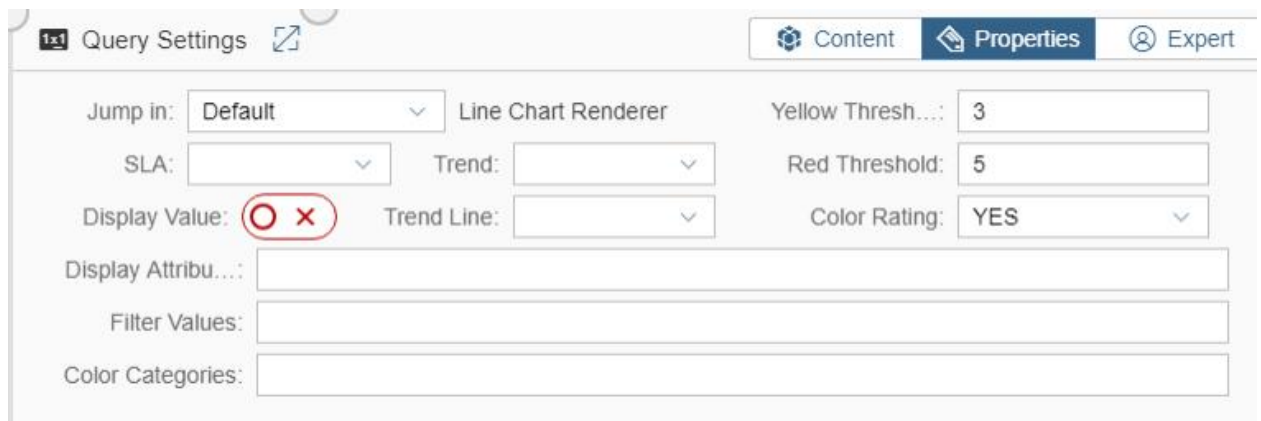


Figure 45. Query Properties

- **Jump in**

This feature enables the user to navigate from the current gadget to the same gadget but with a different renderer type, to another gadget or to a specific dashboard.

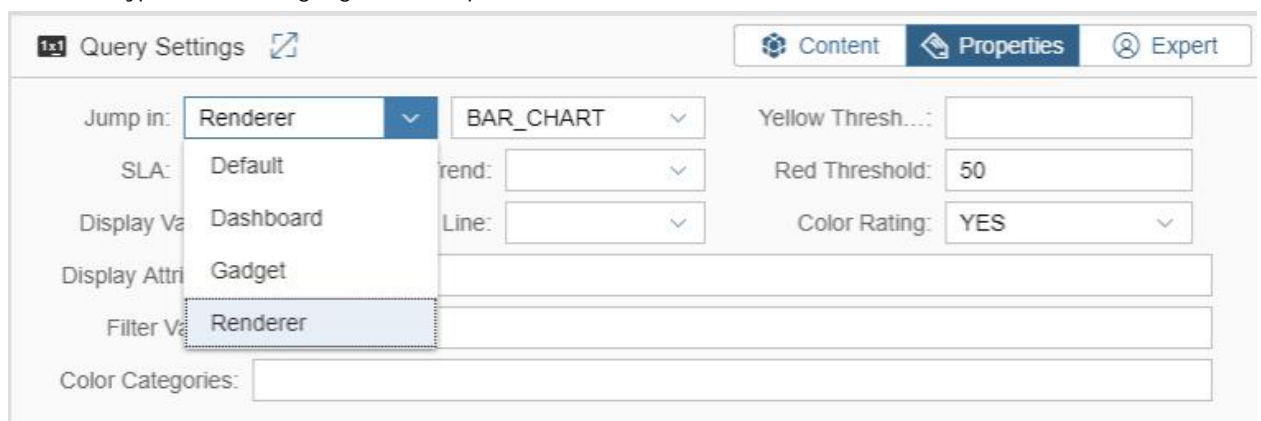


Figure 46. Jump in Property Values

When we double click on the gadget legend the user will redirected depending on the Jump in Property Configuration. In the following an example of the use of Jump in Property

1x1

Query Settings

Content

Properties

Expert

Jump in:

Renderer

BAR\_CHART

SLA:

Trend:

Display Value:

Trend Line:

Yellow Thresh...:

Red Threshold:

50

Color Rating:

YES

Display Attribut...:

Filter Values:

Color Categories:

Figure 47. Jump in Property Configuration

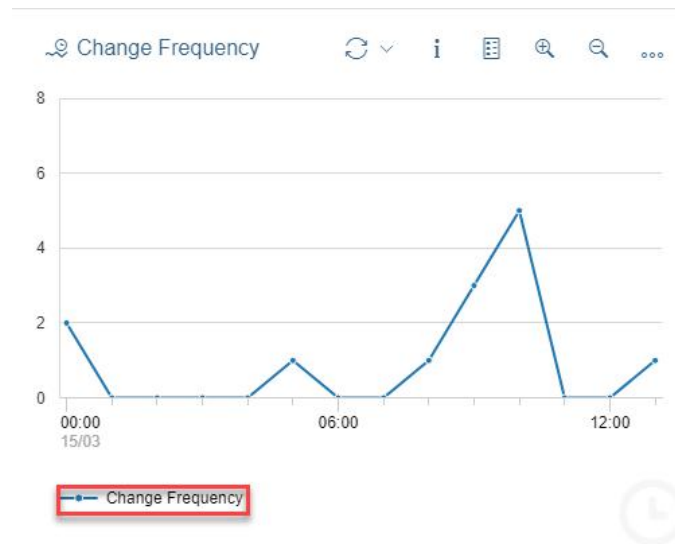


Figure 48. Detail View (1)

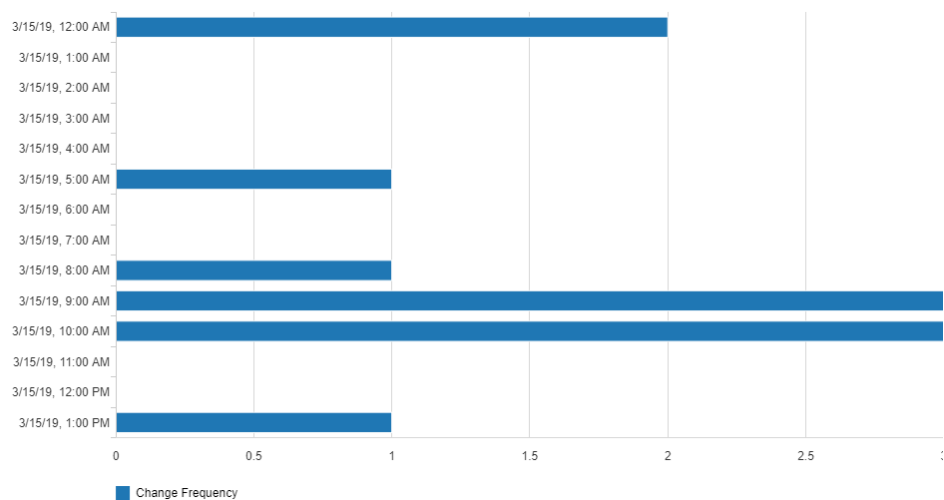


Figure 49. Detail View (2)

- SLA (Average, Maximum, Minimum, Sum, Last)

Figure 50. SLA Property Values

The SLA property has five values which are respectively MIN, MAX, AVG, SUM and LAST and it is used with the SLR Renderer and SLR Table Renderer

**Average**

Using the Average parameter the returned value is the average of all values returned by the query in the chosen period.

**Minimum**

Using the Minimum parameter, the returned value is the minimal one among all values returned by the query in the chosen period.

**Maximum**

Using the Maximum parameter, the returned value is the maximal one among all values returned by the query in the chosen period.

**SUM**

Using the SUM parameter, the returned value is the sum of all the values among returned by the query in the chosen period.

**LAST**

Using the LAST parameter, the returned value is the last value among returned by the query in the chosen period.

- Trend (Up, Down)

The Trend property has two values which are Up and Down, and it is used with the SLR\_RENDERER, SLR\_TABLE, TABLE\_HISTORY\_RENDERER, TREND\_TABLE\_RENDERER, DONUT\_RENDERER

This renderer type compares the trend calculated from the set of point returned by the query.

If the trend calculated is an ascending trend and the user chose the value Up or the trend calculated is a descending trend and the user chose the value Down, there will be a green icon displayed.

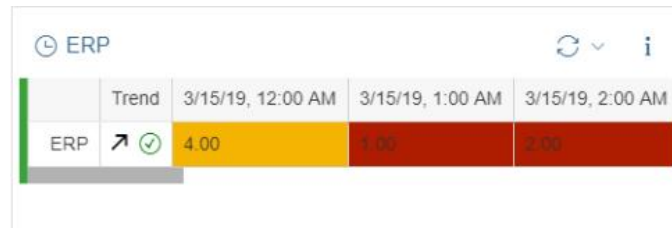


Figure 51. Detail View with a Green Icon

If the trend calculated is an ascending trend and the user chose the value Down or the trend calculated is a descending trend and the user chose the value Up, there will be a red icon displayed

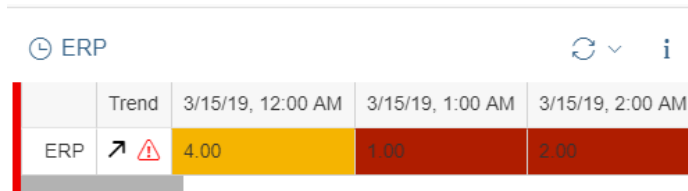


Figure 52. Detail View with a Red Icon

#### - Thresholds (yellow and red)

The user can also define depending on which limits the value rendered can be considered as good or critical and this feature is strongly tight to the previously explained Trend (up, down) feature,

The behavior is resumed in the following table:

Y2R < G2Y Trend = up	Y2R > G2Y Trend = Down	( Y2R = G2Y or G2Y not set ) Trend = Down	( Y2R = G2Y or G2Y not set ) Trend = Up	Y2R not set Trend = Down	Y2R not set Trend = Up	( Y2R not set and G2Y not set ) or COLOR_RATING = no
Value 	Value 	Value 	Value 	Value 	Value 	Value 

Figure 54 : threshold setting's type

### - Trend Line (Linear Regression, Quadratic Regression)

The Trend Line property has two values which are respectively Linear Regression and Quadratic Regression



Figure 53. Detail View using Linear Regression Trend Line

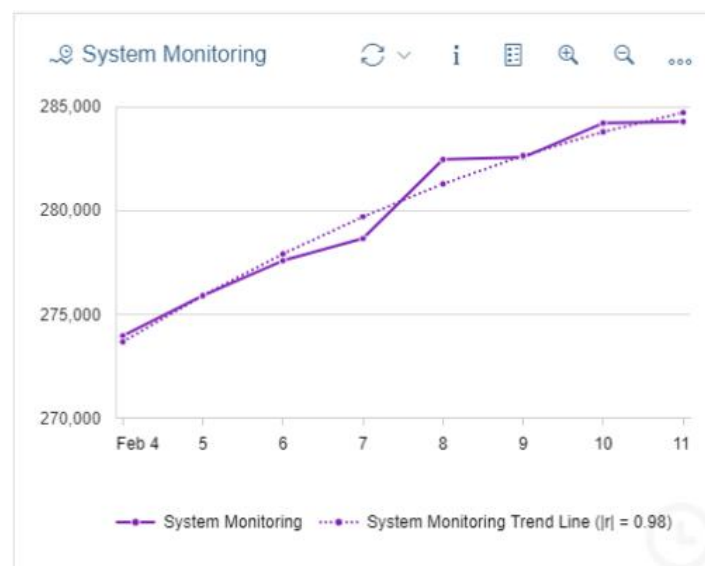


Figure 54. Detail View using Quadratic Regression Trend Line

### - Color Rating (Yes, No, Only)

The Color Rating property has three values which are respectively Yes, No and Only.

If Color Rating = YES

- If the value of the query is strictly less than the yellow threshold the value will be displayed in the green color.
- If the value of the query is between the yellow threshold G2Y (it represents the MIN value) and the red threshold Y2R (it represents the MAX value) then it will be displayed in yellow.
- If the value of the query is strictly superior of the Red threshold Y2R then it will be displayed in the red color.



In the following an example using the Donut chart showing the use of the color rating property.

Query Settings

ContentPropertiesExpert

Jump in: Default

Line Chart Renderer

Yellow Thresh...: 100

SLA: Maximum

Trend:

Red Threshold: 300

Display Value: ○ ×

Trend Line:

Color Rating: YES

Display Attribu...:

Filter Values:

Color Categories:

Figure 55. Color Rating Property Configuration

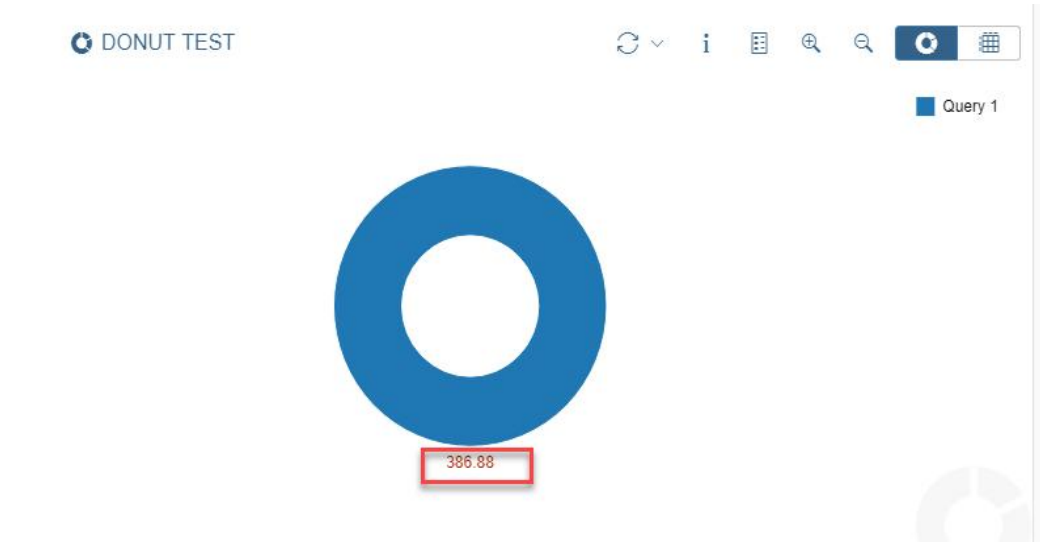


Figure 56. Donut Chart Detail View with a Red rating

Query Settings

ContentPropertiesExpert

Jump in: Default

Line Chart Renderer

Yellow Thresh...: 100

SLA: Maximum

Trend:

Red Threshold: 400

Display Value: ○ ×

Trend Line:

Color Rating: YES

Display Attribu...:

Filter Values:

Color Categories:

Figure 57. Color Rating Property Configuration

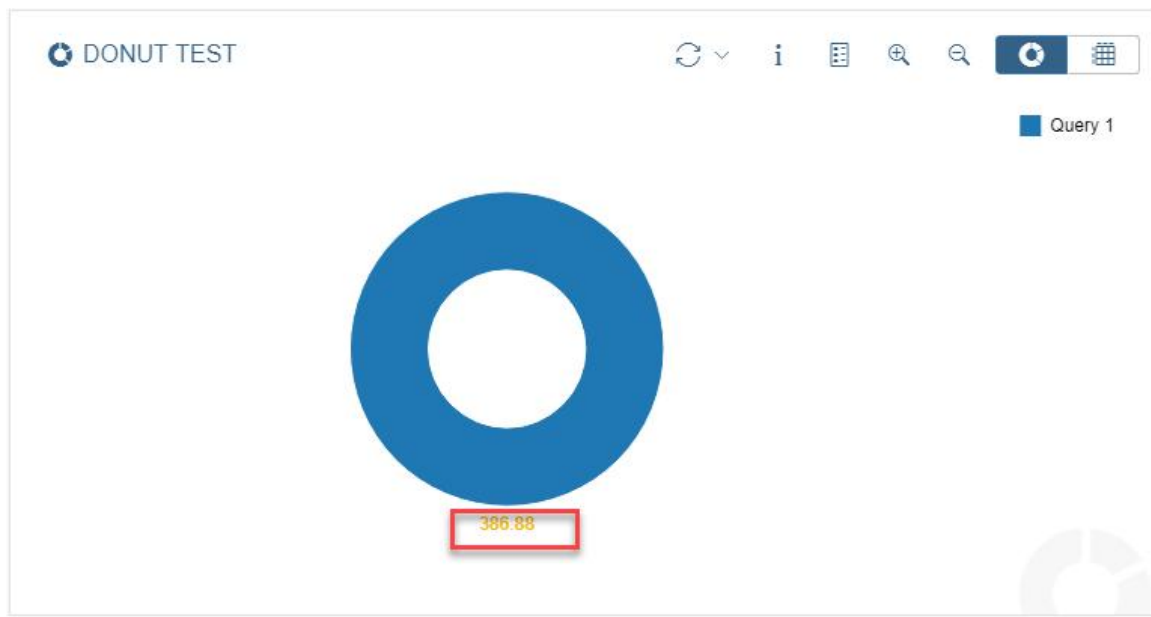


Figure 58. Donut Chart Detail View with a Yellow rating

The image displays the "Query Settings" configuration panel for a donut chart. The "Properties" tab is selected. The settings are as follows:

- Jump in:** Default
- SLA:** Maximum
- Display Value:** (Icon with a red circle and 'x')
- Trend:** (Empty dropdown)
- Trend Line:** (Empty dropdown)
- Yellow Thresh...:** 400
- Red Threshold:** 450
- Color Rating:** YES (This dropdown is highlighted with a red box)
- Display Attribu...:** (Empty text field)
- Filter Values:** (Empty text field)
- Color Categories:** (Empty text field)

Figure 59. Color Rating Property Configuration

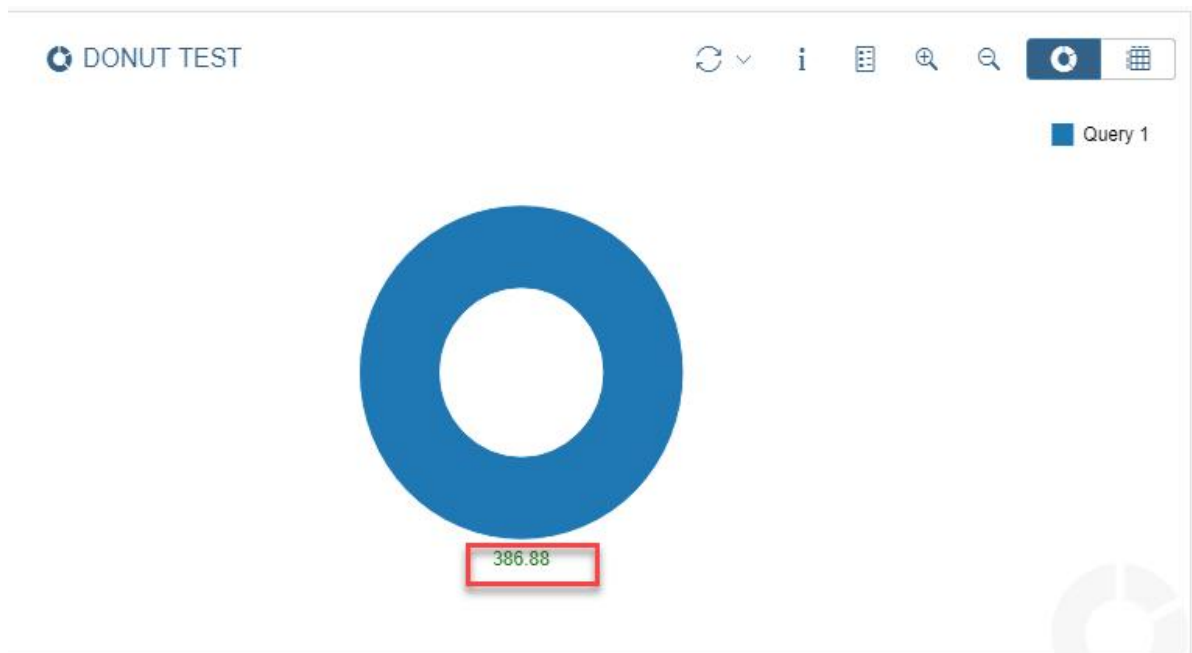


Figure 60. Donut Chart Detail View with a Green rating

If Color Rating = No

The value should be displayed in the color black.

Figure 61. Color Rating Property Configuration

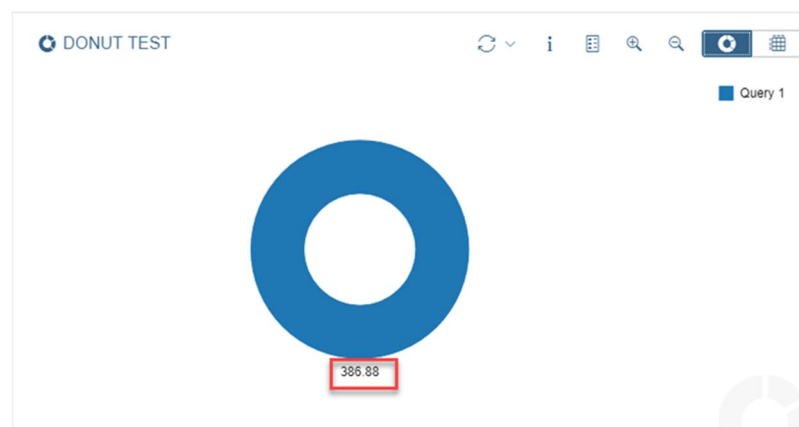


Figure 62. Donut Chart Detail View with a no rating

- Display Attributes: This property enables to rename and manage the displayed columns (An example is detailed on the page 117)
- Filter Values: This property enables to manage the displayed rows (An example is detailed on the page 118)
- Color Categories: This property enables to classify the displayed data in distinct categories (An example is detailed on the page 111)
- **Expert:**



Figure 63. Expert tab

## 4.5 Export Dashboard

After you satisfy with your dashboard, you can export it to use as template for future reference.

Not only you can export dashboard, but you can also parameterize parts of content information, so you can easily change during the importing of dashboard which will be introduced in latter section.

To export dashboard, choose the Export Dashboard button in Dashboard Settings Panel of Editor screen of the dashboard like in figure below.

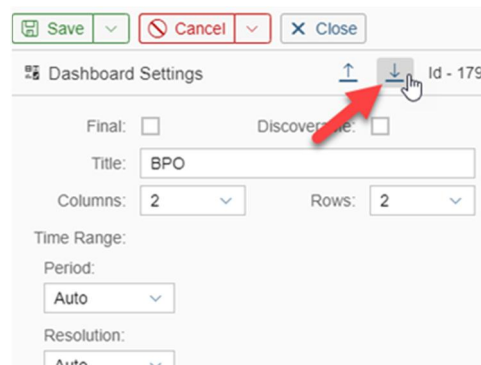


Figure 64. Export Dashboard Button

This will open Export Dialog as you can see in Figure 65 below. There are 3 main sections:

1. The first one is where you put your exported dashboard file's name. The default name will be the combination of dashboard name and timestamp at that moment.
2. As stated, you can parameterize some content, so the biggest section is for parameterization of the content.
3. The last section is to accept and export the dashboard, or to close the dialog.

### **Note**

If you close the export dialog, all parameter settings that you did will be erased.

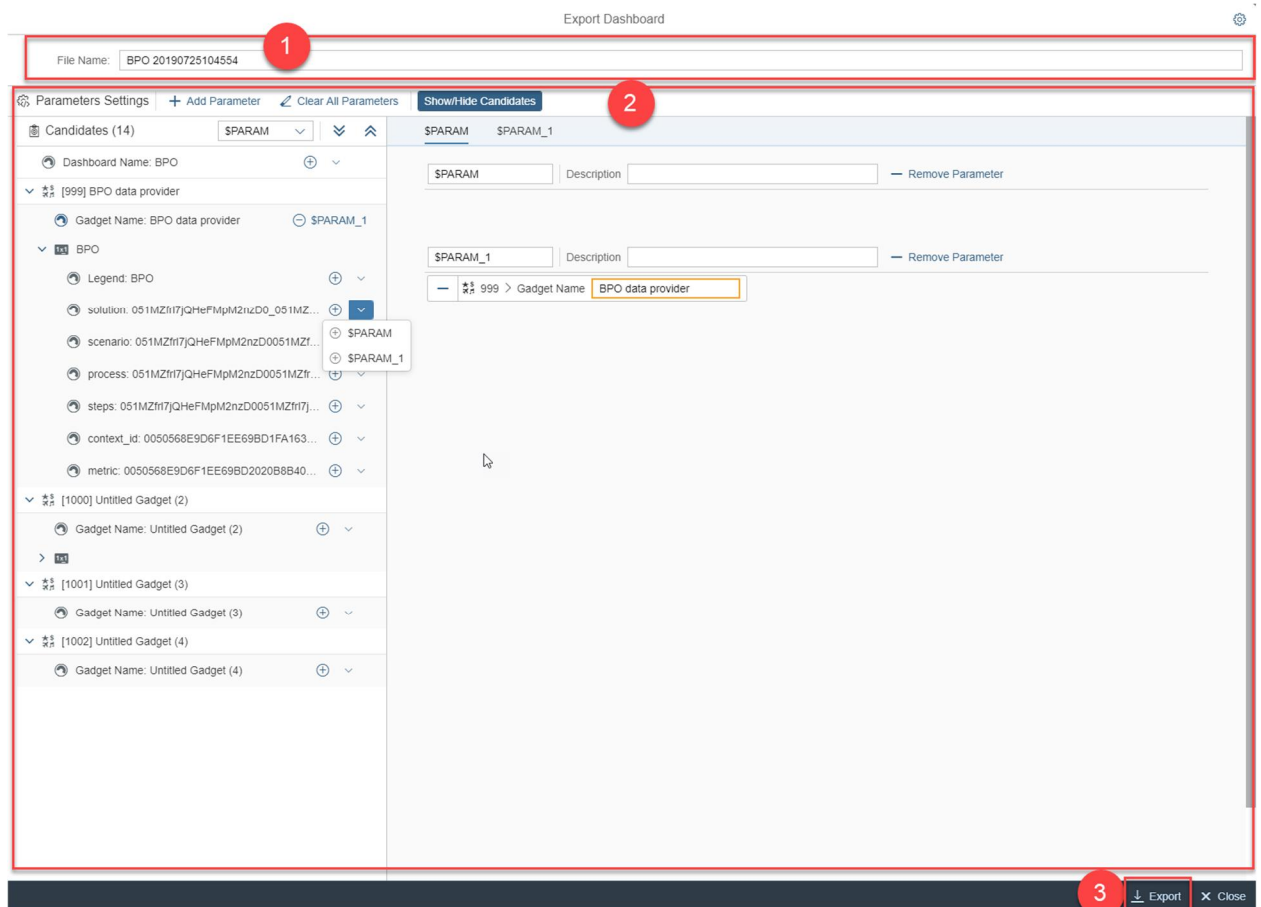


Figure 65. Export Dashboard Dialog

Let's go to the big feature of the export dashboard which is the parameterization. The way it works for the parameterization is that you choose the content which you think it can be changed in target dashboard and set it as a candidate for the parameter, which you will define. In import phase, the candidate value will be changed according to selected value of the parameter.

There are limited contents which you choose as candidates. They are:

- Dashboard name.
- Gadget name.
- Query legend
- Data provider's filters in query.

When you parameterize these contents, and later import to a dashboard, the way the value changes is not the same.

Specifically, for *dashboard name*, *gadget name*, and *query legend*, the value will be changed by insert parameter's selected value to the specified place. For *data provider's filters* in query, parameter's selected value will replace the default value.

To parameterize, you need parameters first, so you can put the contents as candidates in those. You can find the controls in Parameters Settings header.



Figure 66. Parameters Settings Header

1. Use the [+ Add Parameter](#) button to start adding parameters. After that you will see your parameters on the right panel as show in figure below. You can name your parameter, and optionally provide meaningful description so that one can know what this parameter is about when importing.

Figure 67. Added parameters

You can quickly remove all parameters by using button [Clear All Parameters](#). Or you can use button [Remove Parameter](#) to remove specific parameter

2. Now you can choose candidates for parameters. On the left-hand side, you will see a tree with all the candidates. The tree is organized according to dashboard structure.
  1. You can choose the default parameter to be used when the add button is chosen.
  2. Quick add candidate to default parameter. Default parameter is selected in the header of the tree.
  3. Add candidate to specific parameter by using the menu next to the add button.
  4. The candidate can only be added once. If you want to add to another parameter, you have to remove it from containing parameter.
  5. As mentioned before, for candidates related to name, you have to choose a place where parameter value will be inserted to. You can do it by adding \$\$ to the specific location of the text in the input of the chosen candidate in parameters panel.
  6. You can quickly navigate scrolling to parameter with this header.

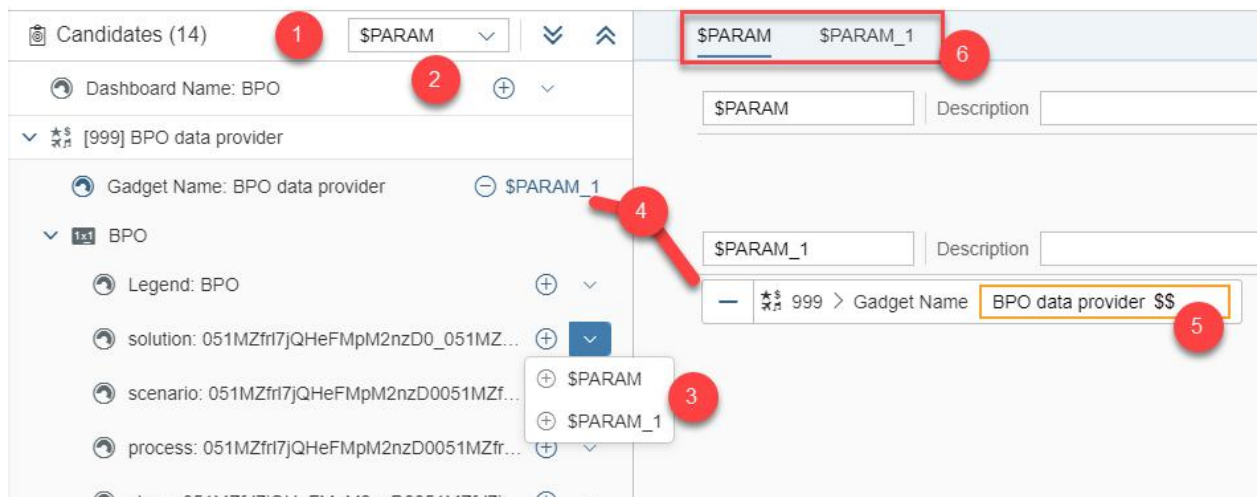


Figure 68. Export Dashboard – Choosing Parameter Candidates

After all this, you can export the dashboard. The exported file will be in format of JSON.

### Editing Export Dashboard JSON File

Be careful when editing the JSON file. We do not suggest editing it, but if you must, all parameters settings are in properties importSettings.

## 4.6 Import Dashboard

If you already exported a dashboard to a JSON file, you can import it to your dashboard to inherit the rich content that you created.

To import dashboard, choose Import Dashboard button as figure below.

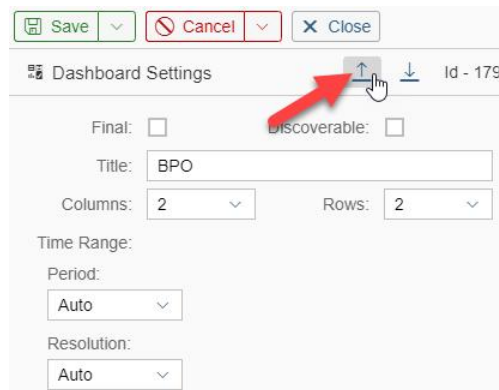


Figure 69. Import Dashboard Button

This will open Import Dashboard dialog.

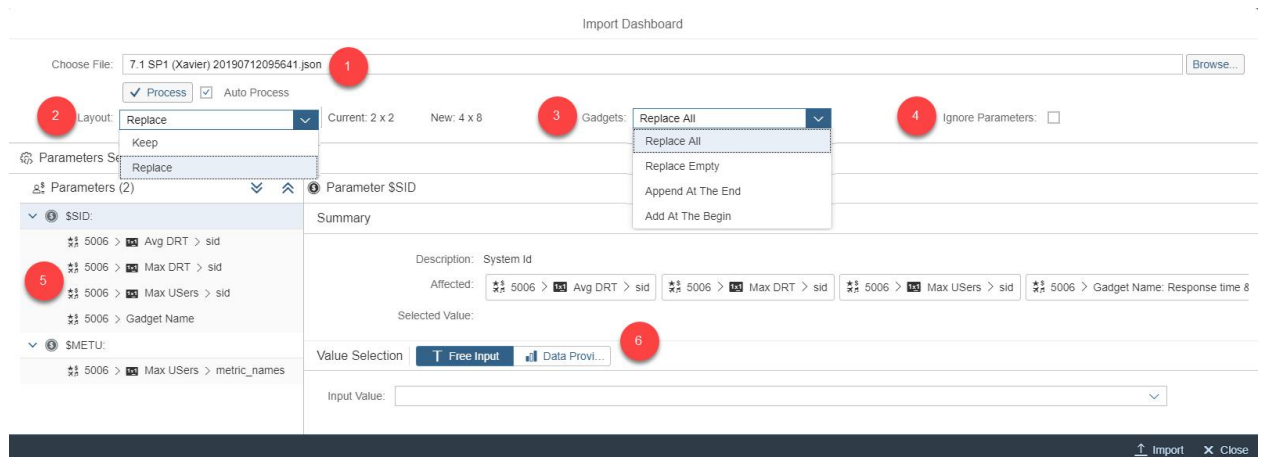


Figure 70. Import Dashboard Dialog

As mentioned in Export Dashboard section, the exported dashboard allows you to parameterize some of the contents. The Import Dashboard will assist you with that.


### Import Dashboard as default

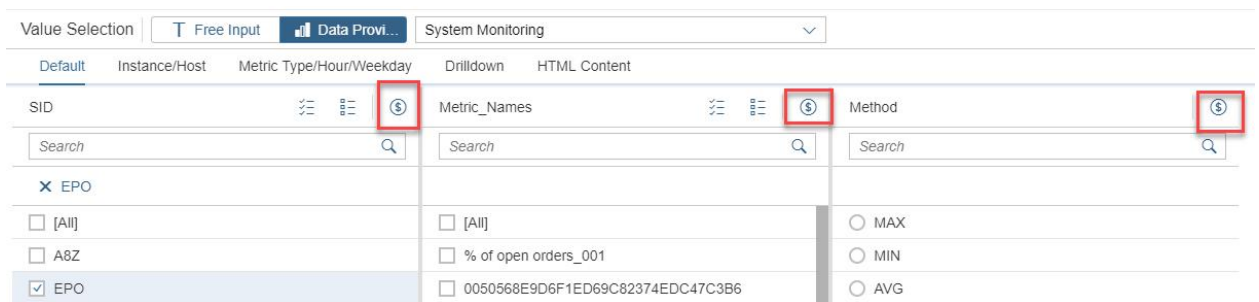
If you decide to not use parameters, just choose Import button at the bottom to import dashboard as is.

In this dialog, there are:

1. Choose file to import, or input the content of the file in case your browser does not support file reader. By default, when you choose the import file, it will be automatically processed for importing contents. However, if you choose not to, especially in case of manual input, you unselect the Auto Process checkbox.
2. Choose your layout strategy when it's different between your dashboard and the import one. If there are more gadgets, it will be added based on gadget insertion strategy. You can either:
  1. Keep your current layout.



2. Replace your current layout.
3. Choose your gadgets insertion strategy. You can either:
  1. Replace All: To replace all your current gadgets with import gadgets. If more gadgets need to be imported, new provisional ones will be added. If the number of import gadgets is less than your current gadgets, the exceeding current gadgets will be kept.
  2. Replace Empty: Replace only your empty gadgets with the import gadgets. If more gadgets need to be imported compare to the number of empty gadgets, new provisional ones will be added. If the number of import gadgets is less than your current empty gadgets, the exceeding current gadgets will be kept.
  3. Append At The End: All import gadgets will be appended and as provisional ones.
  4. Add At The Begin: All import gadgets will be inserted at the beginning and as provisional ones.
4. You can choose to ignore parameter settings below if you wish to import as is.
5. Select value for your parameters. You have to select a parameter in order to be able to select a value for your parameter. You don't need to care about the ids displayed. They are from exported dashboard for reference. You can select value in 2 ways:
  1. Free input with suggestion.
  2. Using data provider filters search. When using this, you have to specifically choose the  button as in figure below to effectively use selected filters as value of parameter.



SID	Metric Names	Method
<input type="checkbox"/> [All] <input type="checkbox"/> A8Z <input checked="" type="checkbox"/> EPO	<input type="checkbox"/> [All] <input type="checkbox"/> % of open orders_001 <input type="checkbox"/> 0050568E9D6F1ED69C82374EDC47C3B6	<input type="radio"/> MAX <input type="radio"/> MIN <input type="radio"/> AVG

Figure 71. Choose value of parameter by Data Provider Filter Search

After satisfying with your selection for parameters, you can choose Import button at bottom to import the dashboard.

#### Gadgets with relationship

If the import dashboard has gadgets that have relationship, you may need to save the dashboard first to be able to see the relationships. This is due to the gadgets in question may appear as provisional ones after importing based on your strategies of layout and gadget insertion. Provisional gadgets do not have Id, and relationship is working based on Id.

#### See gadget name

You can hover above the gadget id to see the gadget name.

## 5 Data Provider

### 5.1 Data Provider /STDF/DP\_SYSMON

Data provider /STDF/DP\_SYSMON gives you access to all metrics of MAI's (Monitoring and Alerting Infrastructure) system monitoring scenario. Data are read from Solution Manager's BW.

To be accessible from this data provider, metrics must be configured and activated properly. Moreover, the metrics must be reported to SAP Solution Manager's BW.

One way to configure this data provider is to first identify the metrics you are interested in from Solution Manager's system monitoring tree (System Monitoring application). From there, you can first make sure that the metrics are working properly and then retrieve the metrics' technical name you'll need to configure the data provider.

The following procedure details how to configure this data provider:

- 1- Go to Technical Monitoring Work Center
- 2- Select Technical System
- 3- Start System Monitoring application
- 4- Open a node at Technical System level
- 5- Select the metric in the tree (metric should have a numerical value)

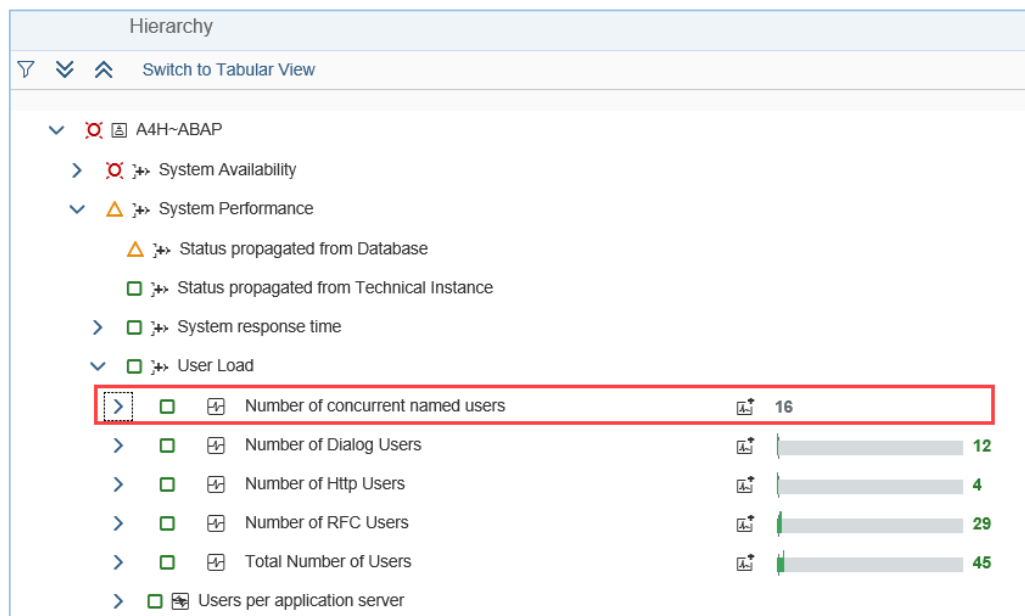


Figure 72. System monitoring view

- 6- Select "Check Data Collection"

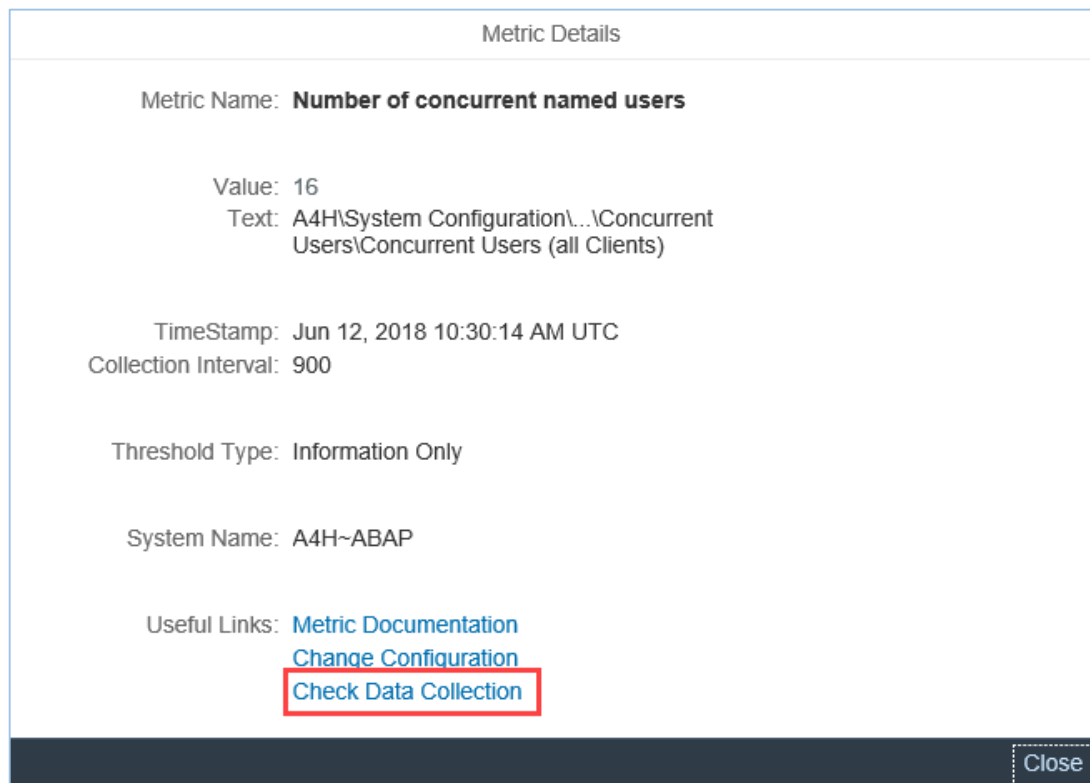


Figure 73. Select "Change Configuration"

7- Click "Monitoring and Alerting Infrastructure Directory Browser"

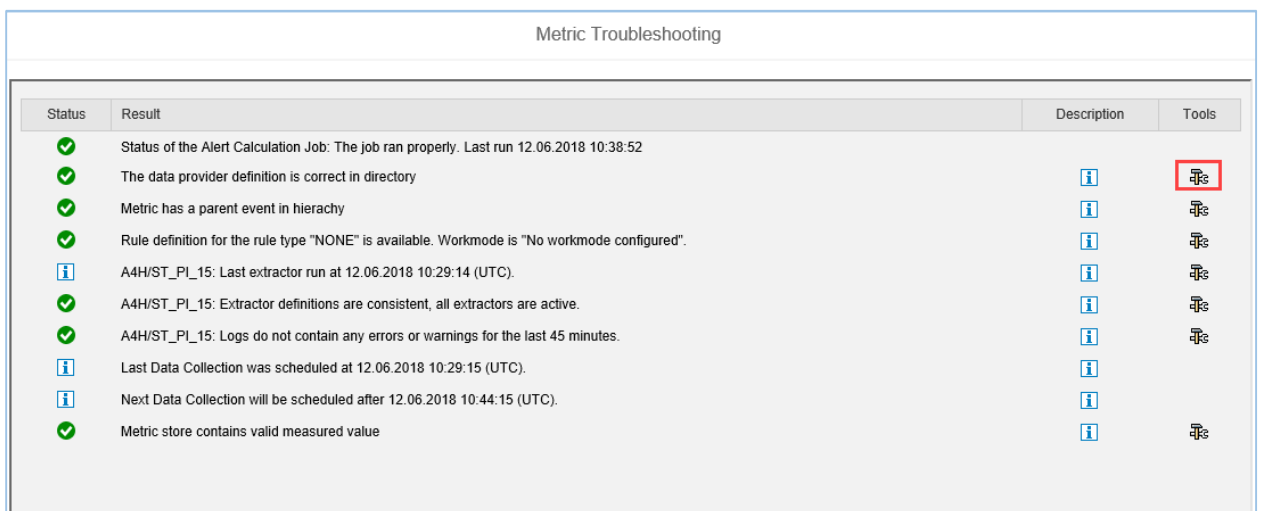


Figure 74. Click "Monitoring and Alerting Infrastructure Directory Browser"

8- Copy the metric name

View: [Standard View] Print Version Export

Category	Metric Type Name	Metric Group	Monitoring Use-Case	Activation Status
Availability	ABAP System Remote RFC Availability		Technical System Monitoring	Active
Configuration	A high number of users have critical authorizations.		Early Watch Alerts Integration	Active
	A large number of deleted records have been found on the system.		Early Watch Alerts Integration	Active
	A primary index is missing on the DB2 for i database.		Early Watch Alerts Integration	Active
	A primary index is missing on the DB2 for LUW database.		Early Watch Alerts Integration	Active
	A primary index is missing on the DB2 for z/OS database.		Early Watch Alerts Integration	Active
	A primary index is missing on the ORACLE database.		Early Watch Alerts Integration	Active
	A secondary index is missing on the DB2 for LUW database which can be important for performance.		Early Watch Alerts Integration	Active
	Adapter Engine tables found in Top Growing Tables. Messaging System and Mapping processing is affect		Early Watch Alerts Integration	Active
	An unnecessary *INTERACT Pool is configured on your system.		Early Watch Alerts Integration	Active

**Details for Metric Type: Number of concurrent named users**

Overview Data Collection Data Usage Threshold **Others**

Metric Name: **ABAP\_SYS\_CONCURRENT\_USERS**  
Metric ID: 0050568A7A4B02EEB9ADC45E618E1EBD

Managed Object Name: **A4H-ABAP**  
Managed Object ID: 0A0F93FEF7E51ED5A9FFCCD553BD0ACA  
Global ID: 0a0f93fe-f7e5-1ed5-a9ff-ccd553bd0aca

Applied from Template: Z\_System\_SAP\_ABAP 7.10\_and\_higher  
Applied Template ID: 0A491FA9DB571ED689E6DEADE1325EBC  
Originating Template: Base template for Technical System  
Originating Template ID: T\_SYSTEM0

Figure 75. Copy the metric name

9- Access OCC dashboard

10- Press button "Edit"

TEST DASHBOARD

TEST DASHBOARD

Figure 76. Press button "Edit"

- 11- Select an empty gadget in the "Dashboard Layout". The Gadget Settings should be enabled.
- 12- Enter gadget title. Since the gadget could be reused in other dashboards, you should choose a meaningful name for the gadget.
- 13- Select a description and a renderer
- 14- Click on "Add Query" in the section "Queries List". The "Query Settings" should be enabled.
- 15- Select data provider /STDF/DP\_SYSMON
- 16- Paste the metric name you copied in step 8 (in this example ABAP\_SYS\_CONCURRENT\_USERS)
- 17- Select the SID of the system (in this example OTO)
- 18- Select the method (in this example MAX as we are interested in the maximum value on the period)

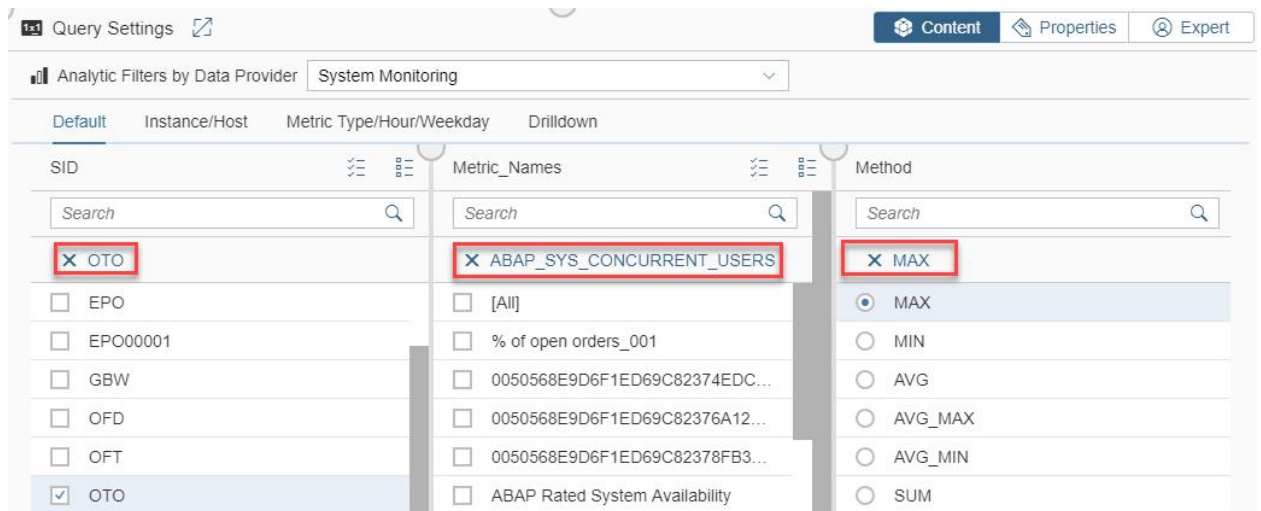


Figure 77. Method Selection

19- In the section Query Settings, go to the tab "Expert". A query is generated:

Legend	Query
User (Max.)	/STDF/DP_SYSMON:legend= users (max.)  COLOR=#1f77b4 OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true SID=OTO Instances= Hosts= Metric_Names=ABAP_SYS_CONCURRENT_USERS Method=MAX metric= Hours= Weekdays= Drilldown=

20- Enter a name for the legend (in this example "User (Max.)")

21- Select renderer (in this example we keep the default: LINE\_CHART)

22-Remark: you can also select more options with the tab "Data" (in this example we keep the default values)

23-You can add multiple queries to the chart. In this example, we add a query for Users (Avg.).

Legend	Query
User (Avg.)	/STDF/DP_SYSMON:legend=users (avg.) COLOR=#aec7e8 OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true SID=OTO Instances= Hosts= Metric_Names=ABAP_SYS_CONCURRENT_USERS Method=MAX metric= Hours= Weekdays= Drilldown=

24-In the preview section, press button "Refresh"

25- Click on "Save" button.



Figure 78. Save Dashboard

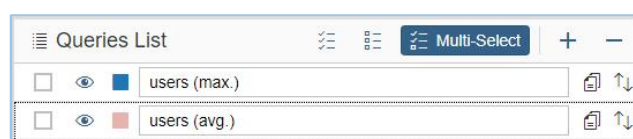


Figure 79. Multiple Queries

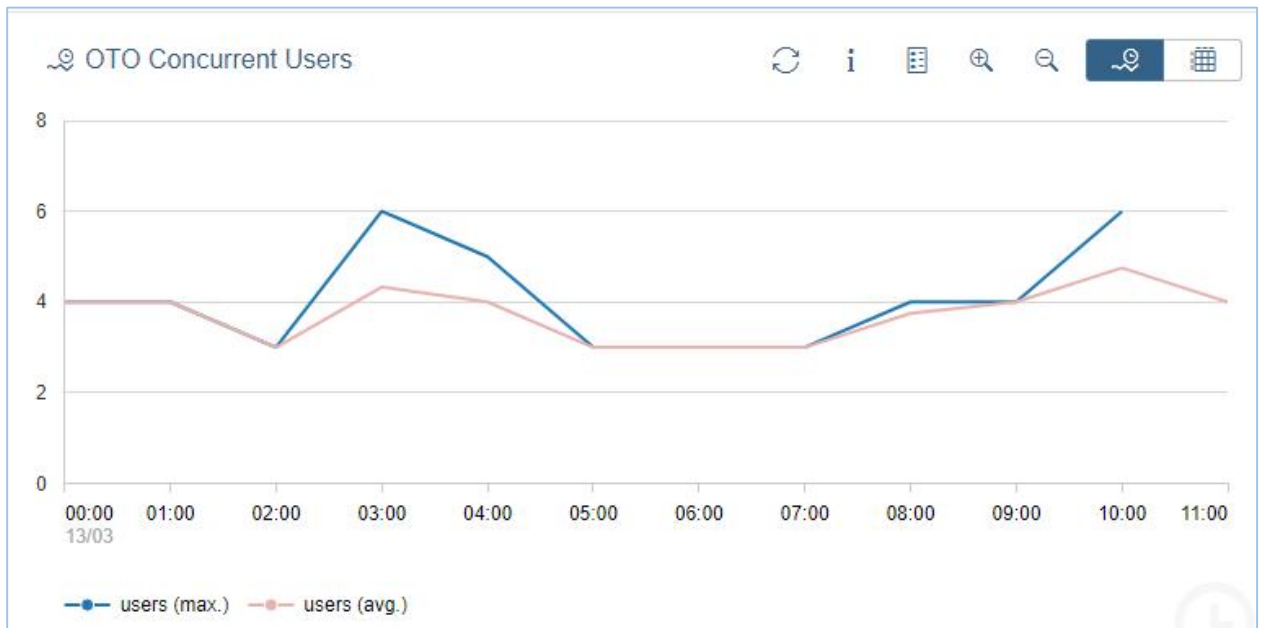


Figure 80. Displayed Chart

## 5.1.1 System Monitoring Metrics at Instance or Host Level

1. Select the metric in the proper node of the system monitoring tree

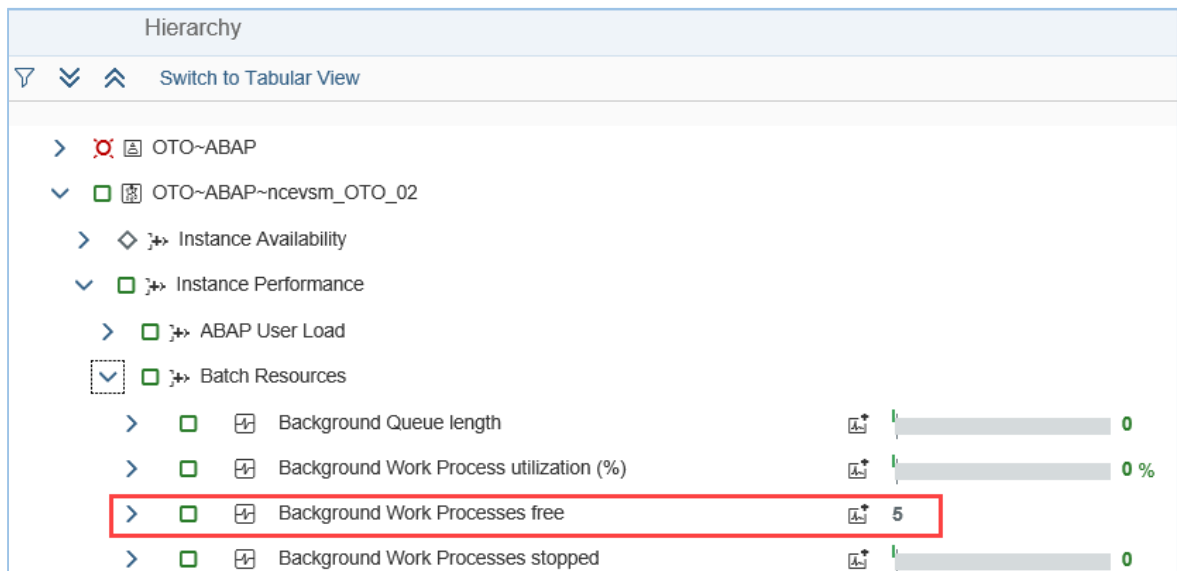


Figure 81. System monitoring metrics

2. Copy the metric's technical name as well as the managed object's name (in this example, we select a technical instance, with managed object name equals to "OTO~ABAP~ncevsm\_OTO\_02")

View: [Standard View] Print Version Export

Category	Metric Type Name	Metric Group	Monitoring Use-Case	Activation Status
Availability	ABAP Message Server Status		Technical System Monitoring	Active
	Instance Local Http Availability		Technical System Monitoring	Active
	Instance Local RFC Availability		Technical System Monitoring	Active
	Instance Status		Technical System Monitoring	Active
Exceptions	Frequency of Short Dumps [min]		Technical System Monitoring	Active
	Frequency of System Log messages [/min]		Technical System Monitoring	Active
	Number of Short Dumps on instance		Technical System Monitoring	Active
	Total number of ABAP System Log Messages		Technical System Monitoring	Active
	Metric group variant: MESSAGE_NO=B19	Number of specific ABAP System Log Messages	Technical System Monitoring	Active
	Metric group variant: MESSAGE_NO=BV4	Number of specific ABAP System Log Messages	Technical System Monitoring	Active

**Details for Metric Type: Background Work Processes free**

Overview | Data Collection | Data Usage | Threshold | **Others**

Metric Name: ABAP\_INST\_BTC\_WP\_FREE  
Metric ID: 0050568E6E9A02DDBFE3302461CED20D

Managed Object Name: OTO~ABAP~ncevsm\_OTO\_02  
Managed Object ID: 0050568E9D6F1ED68E91615514BD8910  
Global ID: 0050568e-9d6f-1ed6-8e91-615514bd8910

Applied from Template: SAP ABAP 7.00 - 7.03  
Applied Template ID: 80E0ED08ADA71DDE8BD04A3DEBB15FDC  
Originating Template: Base template for Technical Instance  
Originating Template ID: INSTANCE0

Figure 82. System monitoring Overview

3. Enter gadget title. Since the gadget could be reused in other dashboards, you should choose a meaningful name for the gadget.
4. Select a description and a renderer
5. Click on "Add Query" in the section "Queries List". The "Query Settings" should be enabled.
6. Select data provider /STDF/DP\_SYSMON
7. Enter the metric's name (ABAP\_INST\_BTC\_WP\_FREE) and the method (AVG)
8. Select the SID of the system (in this example OTO)
9. Select the method (in this example MAX as we are interested in the maximum value on the period)

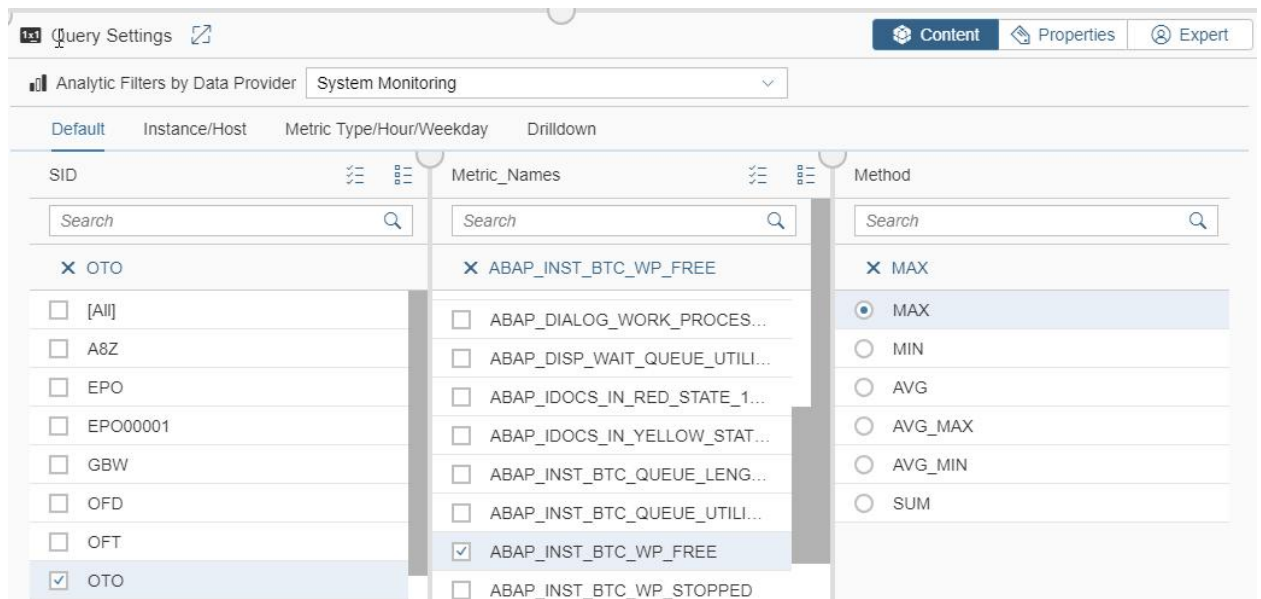


Figure 83. Metric name

10. Select the tab "Instance/Host"

11. In the filter ("Instances\*"), enter the name of the instance. In this example "ncevsm\_OTO\_02" (remark: the technical system name, "OTO~ABAP" is not used as prefix of the technical instance name).

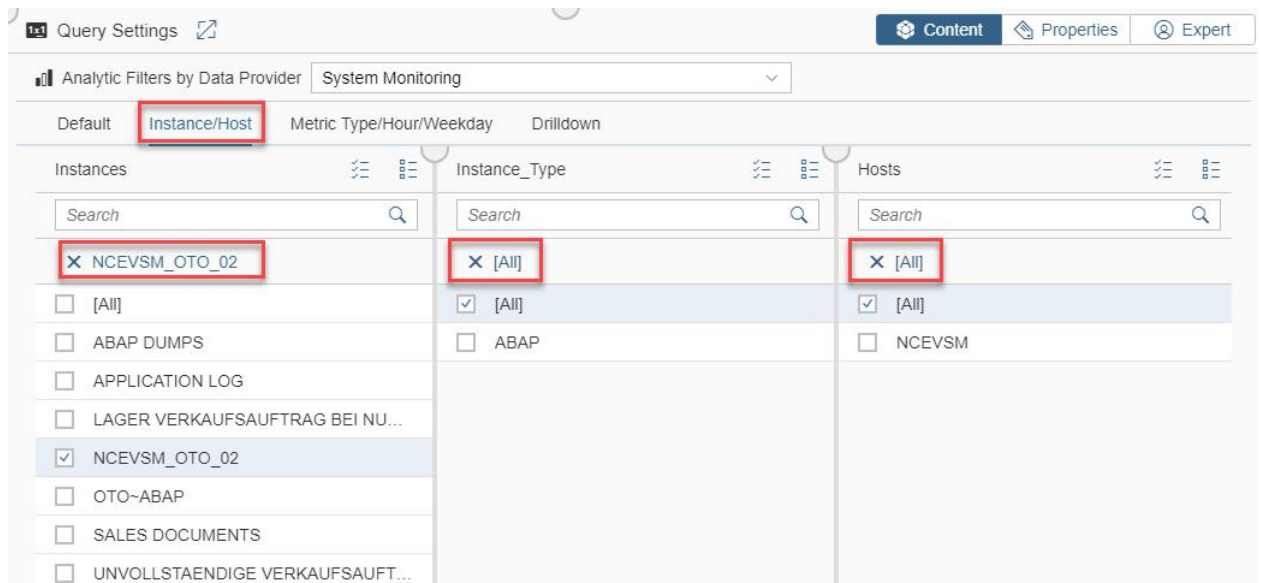


Figure 84. Instance name

12. In the section Query Settings, go to the tab "Expert". A query is generated:

Legend	Query
Avg. free WP	/STDF/DP_SYSMON:legend=Avg. free WP  COLOR=#1f77b4 OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true SID=OTO Instances=NCEVSM_OTO_02 Hosts= Metric_Names=ABAP_INST_BTC_WP_FREE Method=AVG metric= Hours= Weekdays= Drilldown=

13. Enter a text for the legend. In this example: "Avg. free WP".



14. In the preview section, press button "Refresh"



Figure 85. App/Save Dashboard

15. Click on "Save and Close" button.

#### Note

If you select an instance or host related metric but you do not specify a specific instance or a specific host in the gadget's settings, then you will get for example the average or the maximum value (it depends on the method selected) for the technical system (if specified in the query) or for all available values.

## 5.1.2 System Monitoring and Metric Variants

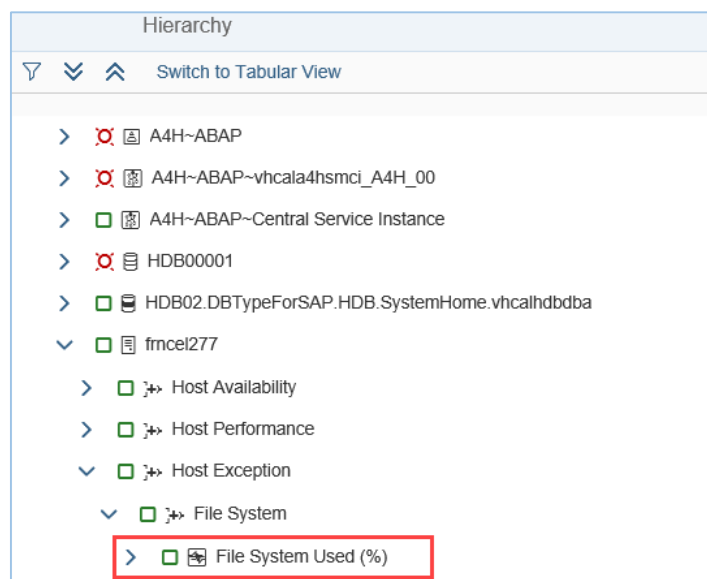


Figure 86. System monitoring and metrics variants

For metric groups like for example “File System Used (%)” at host level, you can use data provider /STDF/DF\_SYSMON\_SNAPSHOT and the copy paste feature (see after) to create a gadget displaying one or several metric variants part of the group.

### 5.1.3 System Monitoring and Custom Metrics

Custom MAI metrics can be display in an OCC gadget using data provider /STDF/DF\_SYSMON. Make sure that in the template definition, you have selected options “Send values to SP NetWeaver Business Warehouse” and at least granularity “Long”.

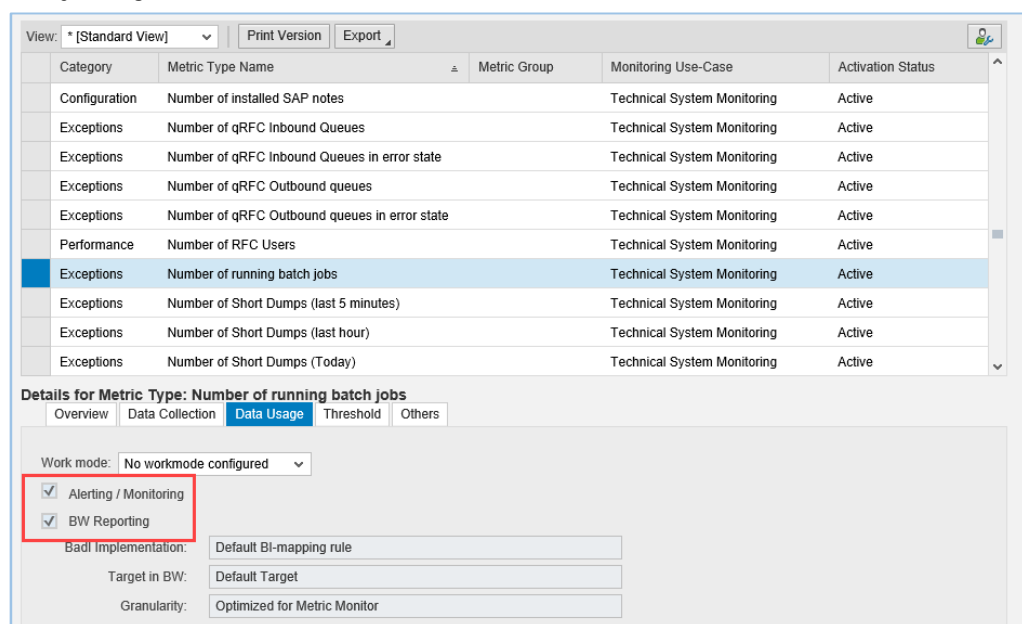


Figure 87. System monitoring and custom metrics

### 5.1.4 Drilldown option

This option enables the user to make a drilldown on the displayed data. There are two possibilities of drilldown: Host & Instance.

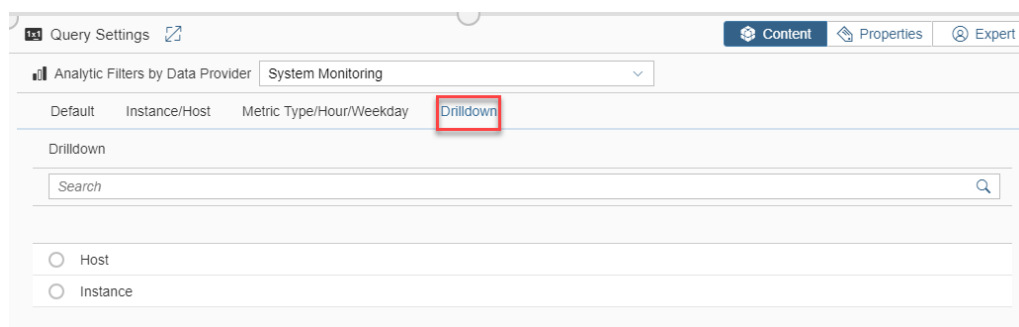


Figure 88. Drilldown Tab

1. In the gadget settings section, enter the title
2. Click on 'Add Query' button in the "Queries List "section
3. Select the data provider /STDF/DP\_SYSMON in the "Queries Settings "section
4. Enter the SID, the metric's name (DIALOG\_RESPONSE\_TIME) and the method (AVG)

Query Settings

Analytic Filters by Data Provider: System Monitoring

Default Instance/Host Metric Type/Hour/Weekday Drilldown

SID	Metric_Names	Method
<input checked="" type="checkbox"/> OFT <input checked="" type="checkbox"/> SHM110	<input checked="" type="checkbox"/> DIALOG_RESPONSE_TIME	<input checked="" type="radio"/> AVG
<input type="checkbox"/> [All]	<input type="checkbox"/> [All]	<input type="radio"/> MAX
<input type="checkbox"/> A8Z	<input type="checkbox"/> % of open orders_001	<input type="radio"/> MIN
<input type="checkbox"/> EPO	<input type="checkbox"/> 0050568E9D6F1ED69C82374EDC...	<input checked="" type="radio"/> AVG
<input type="checkbox"/> EPO00001	<input type="checkbox"/> 0050568E9D6F1ED69C82376A12...	<input type="radio"/> AVG_MAX
<input type="checkbox"/> GBW	<input type="checkbox"/> 0050568E9D6F1ED69C82378FB3...	<input type="radio"/> AVG_MIN
<input type="checkbox"/> OFD	<input type="checkbox"/> ABAP Rated System Availability	<input type="radio"/> SUM
<input checked="" type="checkbox"/> OFT	<input type="checkbox"/> ABAP System Availability	

Figure 89. Metric name

5. Select the tab "Instance/Host"

Query Settings

Analytic Filters by Data Provider: System Monitoring

Default Instance/Host Metric Type/Hour/Weekday Drilldown

Instances	Instance_Type	Hosts
<input checked="" type="checkbox"/> LDCIOFT_OFT_78	<input checked="" type="checkbox"/> [All]	<input checked="" type="checkbox"/> [All]
<input type="checkbox"/> [All]	<input checked="" type="checkbox"/> [All]	<input checked="" type="checkbox"/> [All]
<input type="checkbox"/> CENTRAL SERVICE INSTANCE	<input type="checkbox"/> ABAP	<input type="checkbox"/> LDCIOFT
<input checked="" type="checkbox"/> FRNCELHSM_SHM_01	<input type="checkbox"/> DBMS	
<input checked="" type="checkbox"/> LDCIOFT_OFT_78		
<input type="checkbox"/> OFT		
<input type="checkbox"/> OFT~ABAP		
<input type="checkbox"/> SHM110~ABAP		
<input type="checkbox"/> TOTAL		

Figure 90. Instances name

6. Select the tab "Drilldown"

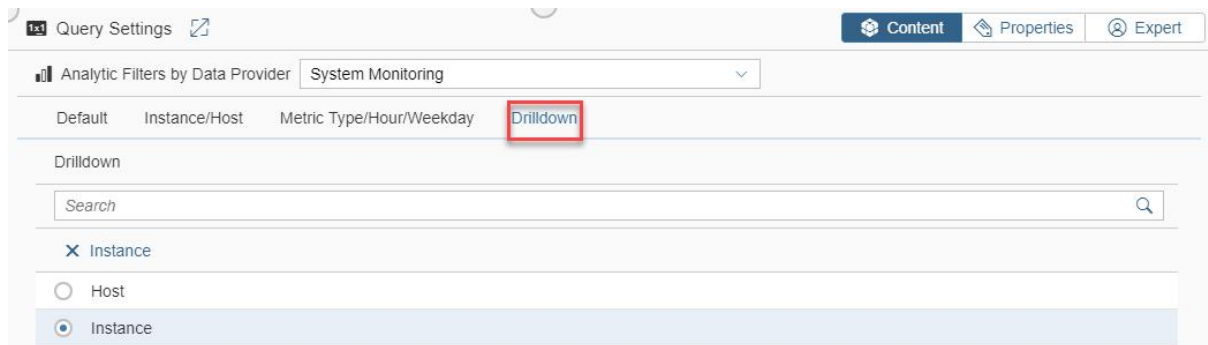


Figure 91. Drilldown type

7. In the section Query Settings, go to the tab "Expert". A query is generated:

Legend	Query
Query 0	/STDF/DP_SYSMON:legend=Query 0 COLOR=#1f77b4 OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true SID=OFT,SHM110 Instances=LDCIOFT_OFT_78,FRNCELHSM_SHM_01 Hosts= Metric_Names=DIALOG_RESPONSE_TIME Method=AVG metric= Hours= Weekdays= Drilldown=Instance

8. Enter a text for the legend. In this example: we didn't add a legend in order to display the instances name.
9. In the preview section, press button "Refresh"

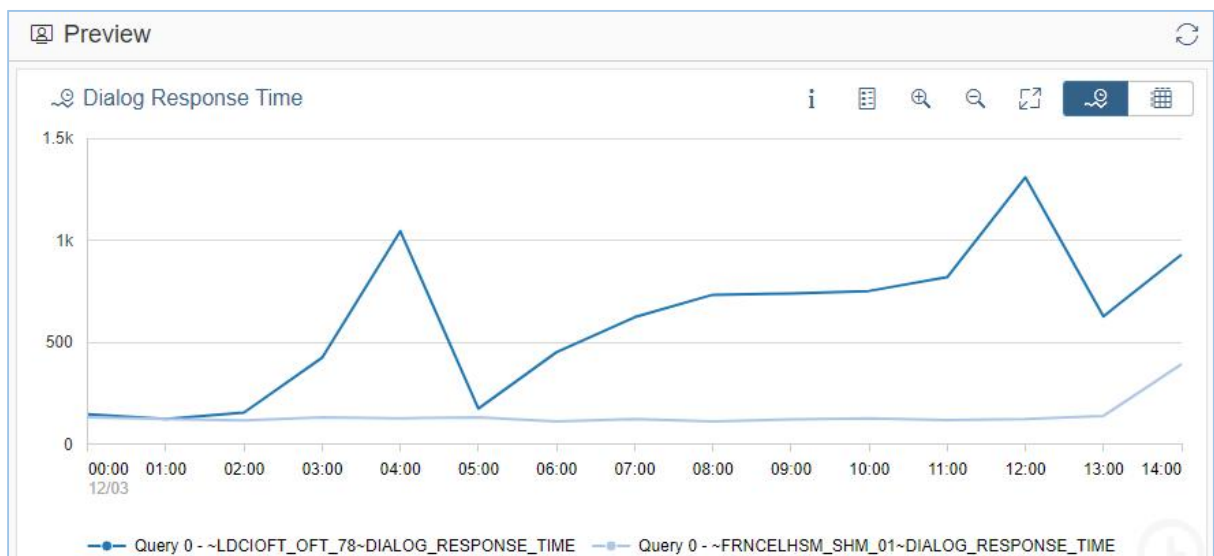


Figure 92. Displayed chart

10. Click on "Save and Close" button.

PS: When using STACK\_COLUMN\_CHART\_2LABEL renderer, we have to:

Check that all the displayed series of data are not null else the renderer won't return any value.

Specify a legend like shown in this screenshot

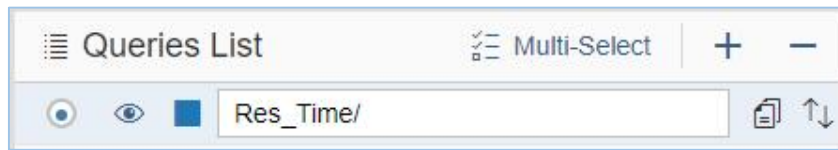


Figure 93. Legend

## 5.2 Data Provider /STDF/DP\_SYSMON\_SNAPSHOT

This data provider associated with renderer ALERT\_TABLE, offers two types of view described below: Overview & Detail.

### 5.2.1 Overview View

This is a table which summarizes the real time monitoring status for the four monitoring categories of MAI (performance, availability, error and configuration) as well as the number of alerts. Each line corresponds to one managed object.

Preview					
Overview SYSMON_SNAPSHOT					
System	Avail	Config	Error	Perf	Alerts
SHD110	✓	?	🔥	🔥	13 Alerts

Figure 94. System monitoring overview

All types of monitored object supported by MAI infrastructure can be picked from the list (technical system, technical instance, host, job monitoring scenarios, EEM scenarios...).

Remark: monitoring categories are not relevant to all monitoring scenarios.

To add a monitored object in the overview table:

1. In the gadget settings section, enter the title
2. Select ALERT\_TABLE renderer
3. Click on 'Add Query' button in the "Queries List" section
4. Select /STDF/DP\_SYSMON\_SNAPSHOT data provider
5. Choose a monitoring object from the list "SHD110 (DBMS)"
6. Select the view "Overview"
7. Select a category "PERFORM"
8. Select a type "DBMS"
9. Select a legend for the row in the table

Remarks:

- 10-From the gadget, a click on the monitored object legend jumps to the detail view for this monitoring object.
- 11-From the gadget, a click on the number of alerts jumps to the Alert Inbox.
- 12-For some monitoring object types, detail view is not available.

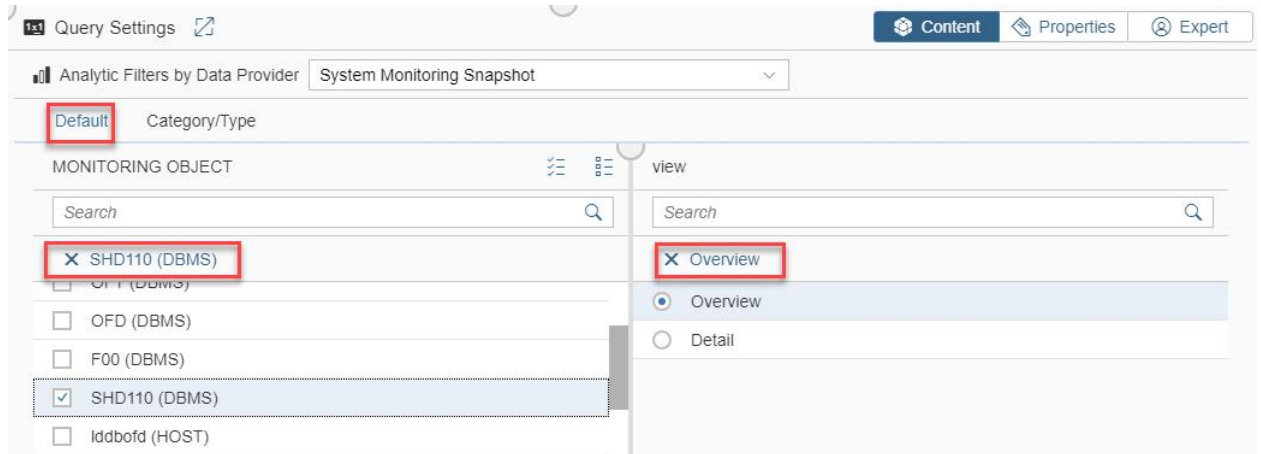


Figure 95. Configure Gadget (1)

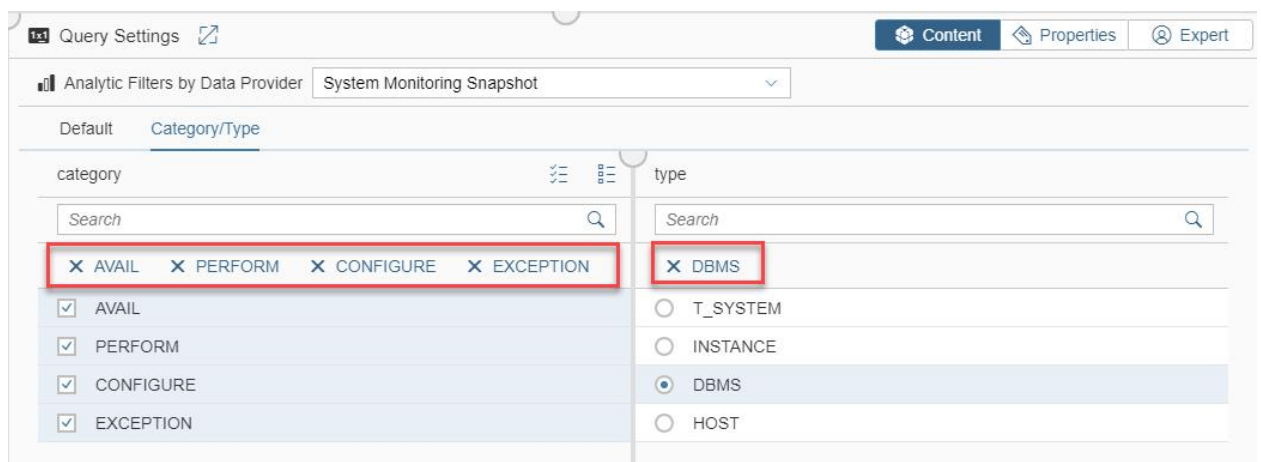


Figure 96. Configure Gadget (2)

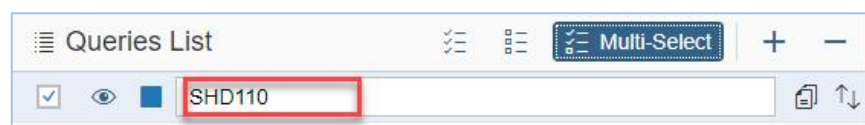


Figure 97. Legend

PS:

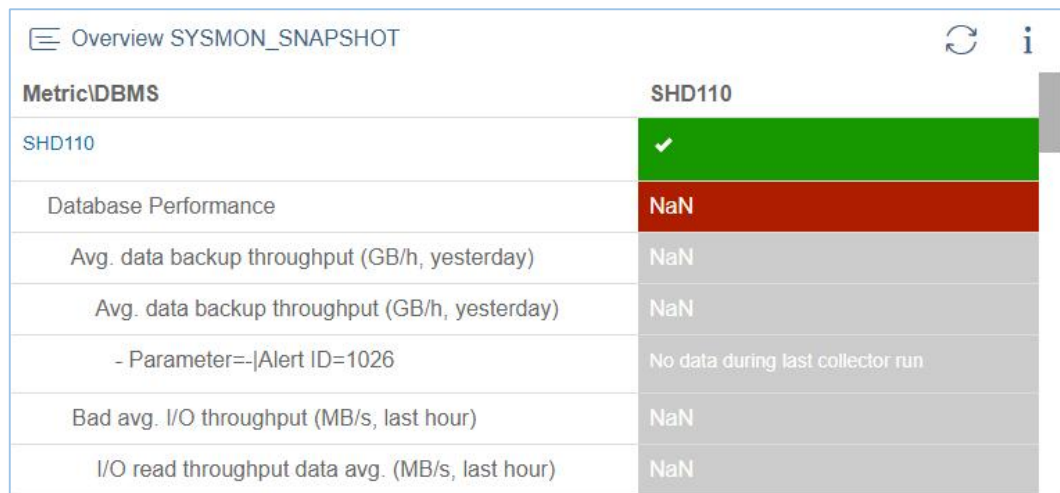
If there are multiple systems, the legend field is disabled and for each system the system column will be automatically filled with the appropriate system name.

The legend would be valid and used only if we have a single system.

To see the legend, the customer should configure a query for each system.

## 5.2.2 Detail View

Detail view shows the monitoring tree for the monitoring object. This view is very similar to the one offered by standard system monitoring application. However, only one monitored object is displayed and not the complete tree starting from the technical system. This view works only for managed object types supporting the tree representation (host, database, technical instance, technical system...).



Metric\DBMS	SHD110
SHD110	✓
Database Performance	NaN
Avg. data backup throughput (GB/h, yesterday)	NaN
Avg. data backup throughput (GB/h, yesterday)	NaN
- Parameter=- Alert ID=1026	No data during last collector run
Bad avg. I/O throughput (MB/s, last hour)	NaN
I/O read throughput data avg. (MB/s, last hour)	NaN

Figure 98. Detail view (1)

A click on a metric value will open a new gadget “on the fly” to display its historical values. This works only for numerical metrics.

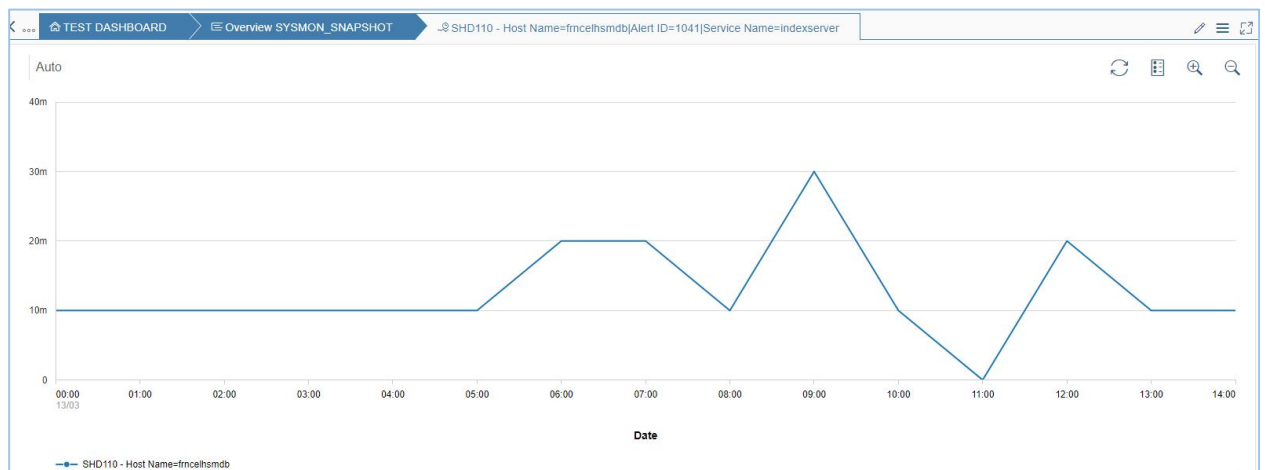


Figure 99. Detail view (2)

## 5.2.3 Copy & Paste Query

With the web browser Chrome, the two table views “Overview” and “Detail view” for data provider /STDF/DP\_SYSMON\_SNAPSHOT support the copy & paste feature.

From the Overview, it is possible to copy & paste one monitored object in a separated gadget. This operation could be done only in edit mode and it should be saved.

- 1- Click on the System you want to copy
- 2- Click on "Copy Query". Check in the section Queries you have a new query added.

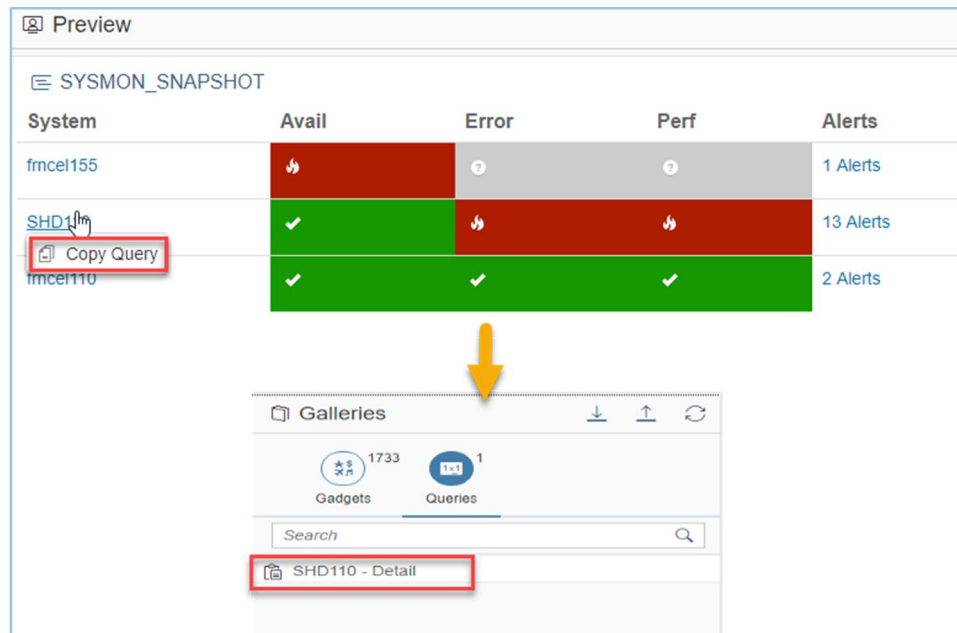


Figure 100. Copy Query (Overview view)

- 3- Select an empty gadget in the section gadget Layout. Select the copied query and click on the button "Paste query"
- 4- Select the renderer ALERT\_TABLE and the title then save the changes.

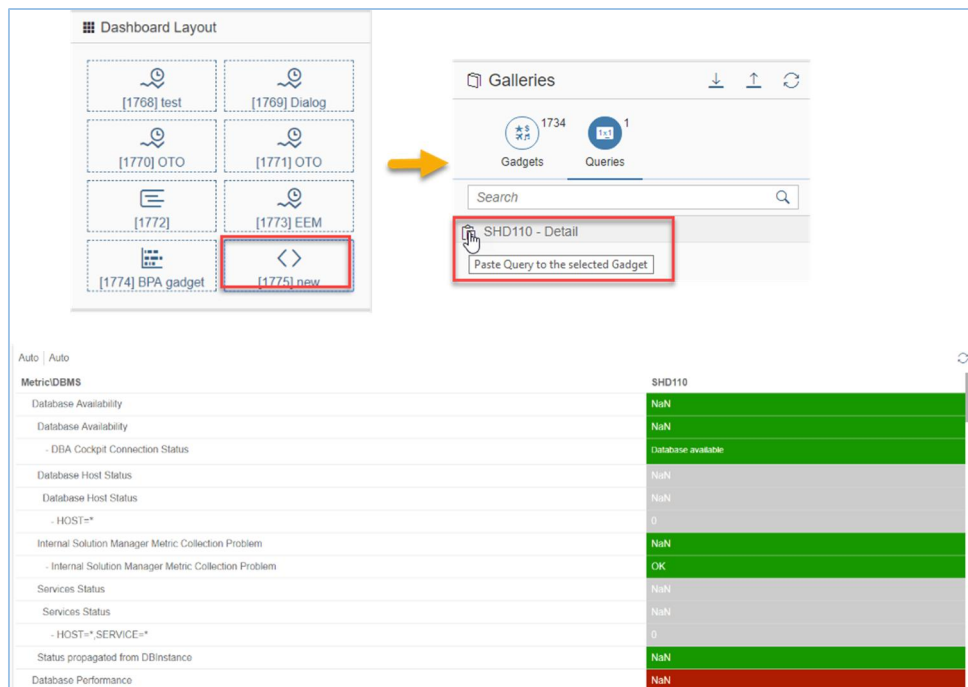


Figure 101. Paste Query (Overview view)



From the detail view, it is possible to copy and paste a metric (with numerical value) in a separated gadget to display it. This operation could only be done in edit mode and it should be saved.

- 1- Click on the Metric (with numerical value) you want to copy
- 2- Click on "Copy Query". Check in the section Queries you have a new query added

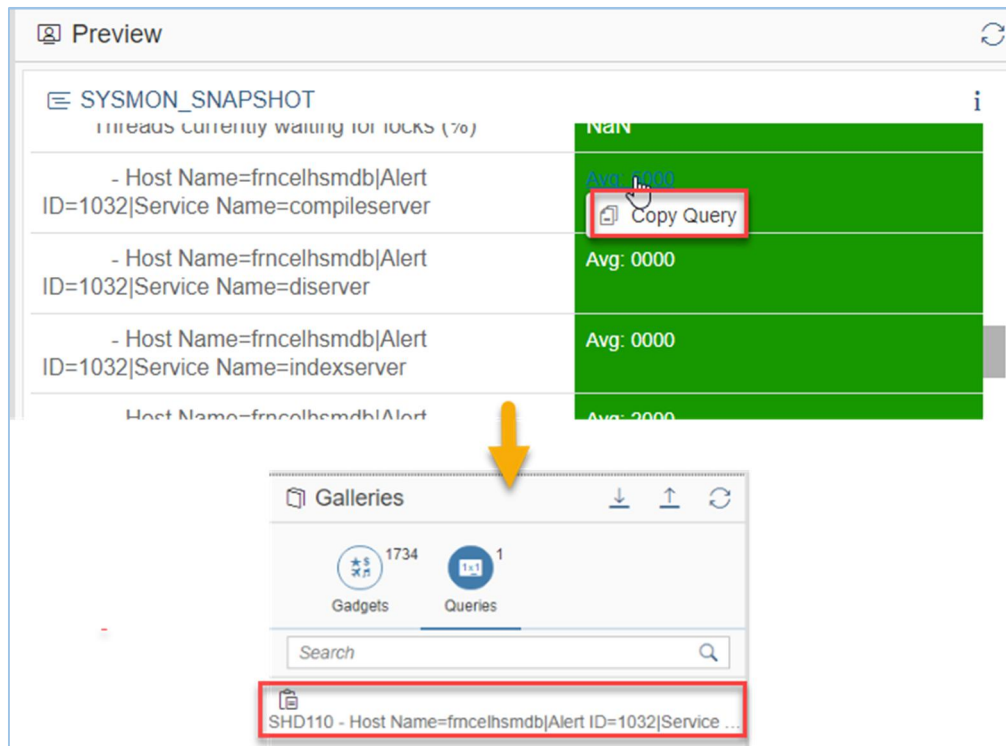


Figure 102. Copy Query (Detail View)

- 3- Select an empty gadget in the section gadget Layout. Select the copied query and click on the button "Paste query"
- 4- Select the renderer LINE\_CHART and the title then save the changes.

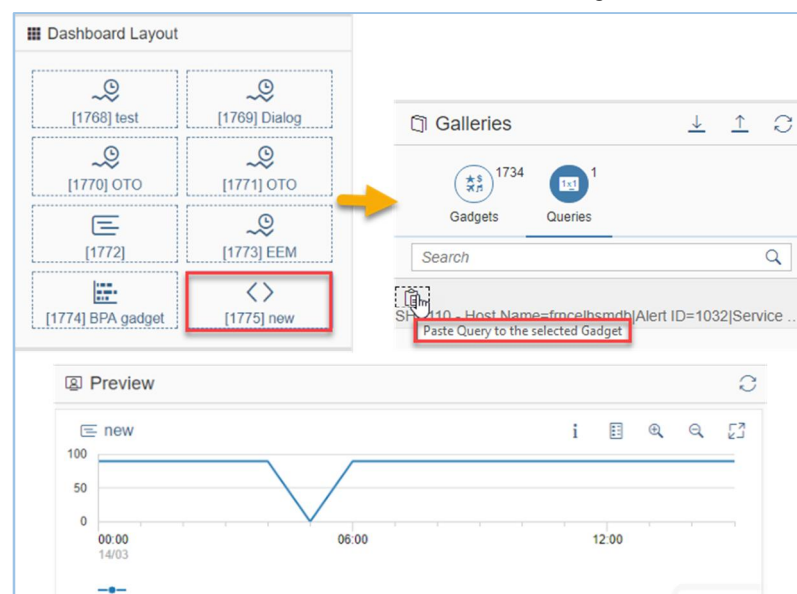


Figure 103. Paste Query (Detail View)

### 5.3 Data Provider /STDF/DP\_EEM

This data provider reports either the status or the response times of an EEM script. You need to select a robot and a script together with the type of metric (status or response time).

This data provider is convenient for real time monitoring with short time frame and small granularities (raw, minutes, hours) as it reads the values from EEM tables. For longer period, data provider /STDF/DP\_EEM\_BI should be used instead.

Analytic Filters by Data Provider

End-user Experience Monitoring Data Provider

General

agent

script

metric

Search

Search

Search

X

vhcala4hsmci

vhcala4hsmci

vhcala4hsmci

vhcala4hsmci

vhcala4hsmci

X

UXMon Selfcheck Script

UXMon Selfcheck Script

Sales Order Full

MII Scheduler Status

Script\_S4H

X

Response Time

Response Time

Status

Figure 104. EEM data provider

Legend	Query
Query 0	/STDF/DP_EEM:COLOR=#1f77b4 legend=Query 0 OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true M=AVAILABILITY:AVAILABILITY T=YESTERDAY:DAY D=TECH_SYSTEM:HDB F=SYS_TYPE:HANAD B P= display_value=false agent=vhcala4hsmci script=UXMon Selfcheck Script metric=RESPONSE_TIME

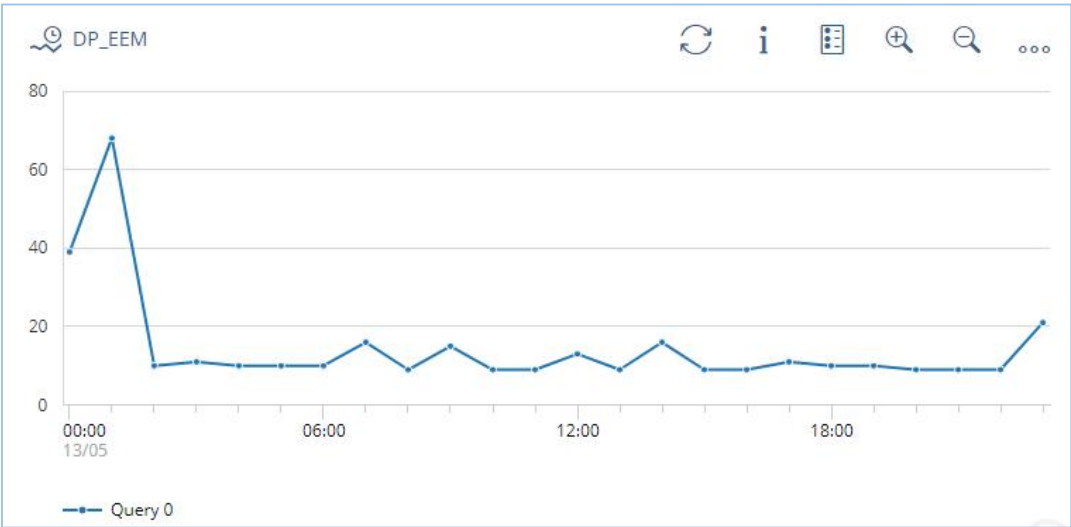


Figure 105. Metric chart

## 5.4 Data provider /STDF/DP\_EEM\_BI

This data provider reports, for a given robot, the average response time of an EEM script or some EEM script's steps execution. Since data are extracted from BW, It is recommended to report on longer time periods.

You must choose:

- The agent
- The script
- The step

Analytic Filters by Data Provider: End-user Experience Monitoring BI Data Provider		
Agent/Script/Step	Hour/Weekday	
<b>agent</b>	<b>script</b>	<b>step</b>
<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>
<input checked="" type="checkbox"/> vhcala4hsmci	<input checked="" type="checkbox"/> UXMon Selfcheck Script	<input checked="" type="checkbox"/> [All]
<input type="checkbox"/> [All]	<input type="checkbox"/> [All]	
<input type="checkbox"/> vhcals4hci	<input type="checkbox"/> Sales Order Full	
<input type="checkbox"/> frontend	<input type="checkbox"/> MII Scheduler Status	

Figure 106. Gadget Configuration (1)

Using the tab "Hour/Weekday" It's possible to filter on business hours or business days.

Analytic Filters by Data Provider: End-user Experience Monitoring BI	
Agent/Script/Step	Hour/Weekday
<b>hour</b>	<b>weekday</b>
<input type="text" value="Search"/>	<input type="text" value="Search"/>
<input type="checkbox"/> [All]	<input checked="" type="checkbox"/> [All]
<input type="checkbox"/> 00	<input type="checkbox"/> MO
<input type="checkbox"/> 01	<input type="checkbox"/> TU
<input type="checkbox"/> 02	<input type="checkbox"/> WE
<input type="checkbox"/> 03	<input type="checkbox"/> TH
	<input type="checkbox"/> FR
	<input type="checkbox"/> SA

**More**  
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Figure 107. Gadget Configuration (2)

Legend	Query
All_week	/STDF/DP_EEM_BI:COLOR=#aec7e8 legend=All_week OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true agent=vhcala4hsmci script=UXMon Selfcheck Script step=Call Public Ping hour= weekday= display_value=false subchart=COLUMN
MO_TU	/STDF/DP_EEM_BI:COLOR=#aec7e8 legend=MO_TU OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true agent=vhcala4hsmci script=UXMon Selfcheck Script step= hour= weekday=1,2 display_value=false subchart=LINE



Figure 108. EEM Dashboards overview

## 5.5 Data Provider /STDF/DP\_BPA\_KPI

This Data provider gives you access to all metrics of BPA (Business Process Analytic). You need to select solutions, Key figures, dimensions, filters and options.

Solutions	Branches	MonitoringID	System	Client
<input checked="" type="radio"/> Corporate Solution	<input checked="" type="radio"/> Operations	<input checked="" type="radio"/> PtP: Purchase orders in approv	<input checked="" type="radio"/> S4H	<input type="radio"/> 804
<input type="radio"/> Operations	<input type="radio"/> Corporate Solution	<input type="radio"/> PtP: Purchase order items ...	<input type="radio"/> S4H	
		<input type="radio"/> PtP: Purchase requisition it...		
		<input type="radio"/> PtP: Overdue MM invoices ...		
		<input type="radio"/> PtP: Overdue open vendor i...		

Figure 109. DP\_BPA\_KPI Gadget configuration (1)

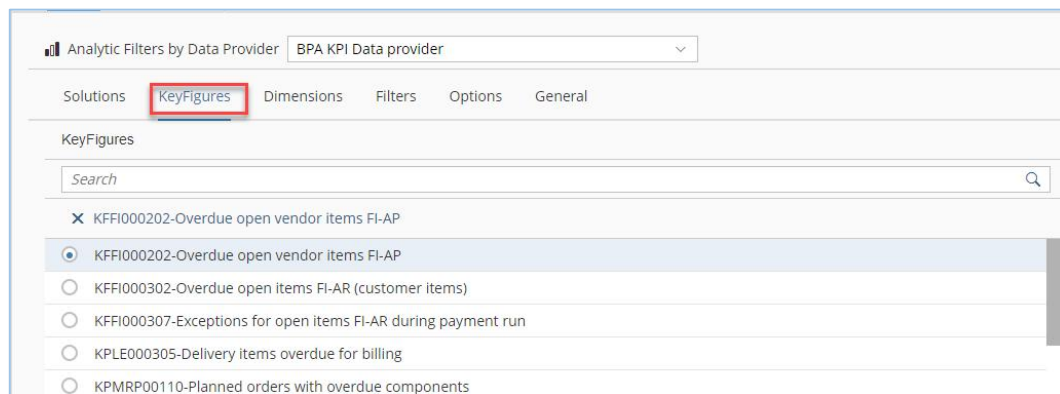


Figure 110. DP\_BPA\_KPI Gadget configuration (2)

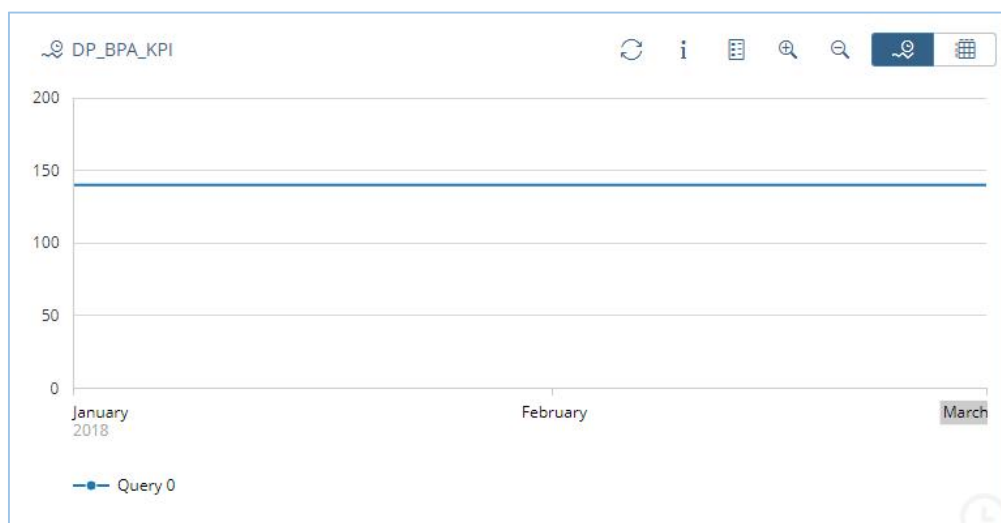


Figure 111. Detail view

## 5.6 Data Provider /STDF/DP\_BEX\_QUERIES

This data provider gives you access to create a new query.

The user can choose a query then the filters that are supported will be dynamically displayed.

The selection will be also dynamically displayed as follow:

- Selection
- Fill\_gaps
- X\_axis

Legend	Query
Availability	/STDF/DP_BEX_QUERIES:COLOR=#1f77b4 legend=Availability OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true Queries=OCCMPDAT A-/STDF/QM_AVAILABILITY Filters= Selection= Fill_gaps= X_axis= OSMD_LSID=A4H

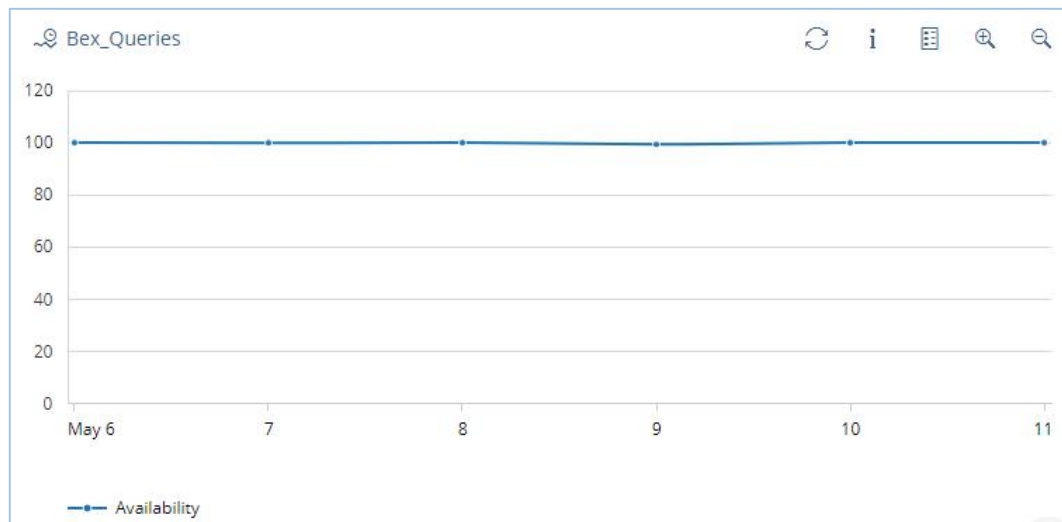


Figure 112. Detail view

## 5.7 Data Provider /STDF/DP\_DF\_TAC

This Data provider gives you access to add the instances which are added in the TAC dashboard. The user is able to add a new query.

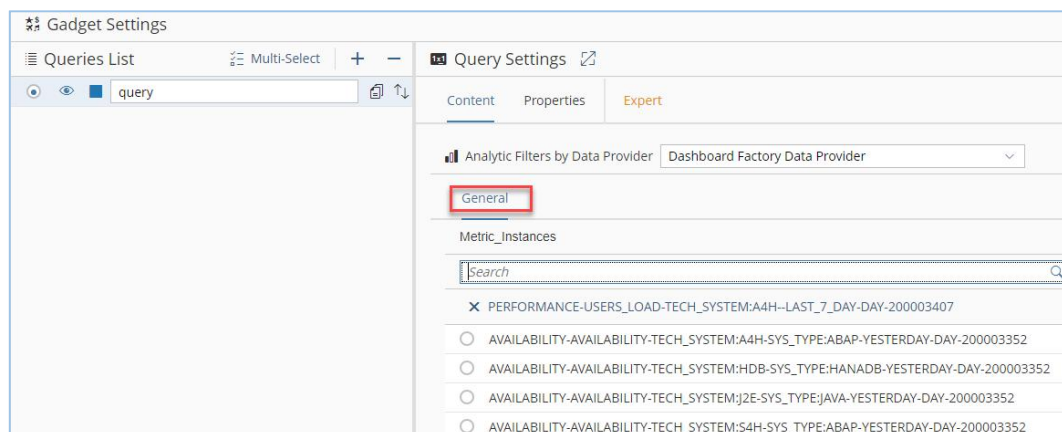


Figure 113. DP\_DF\_TAC configuration gadget

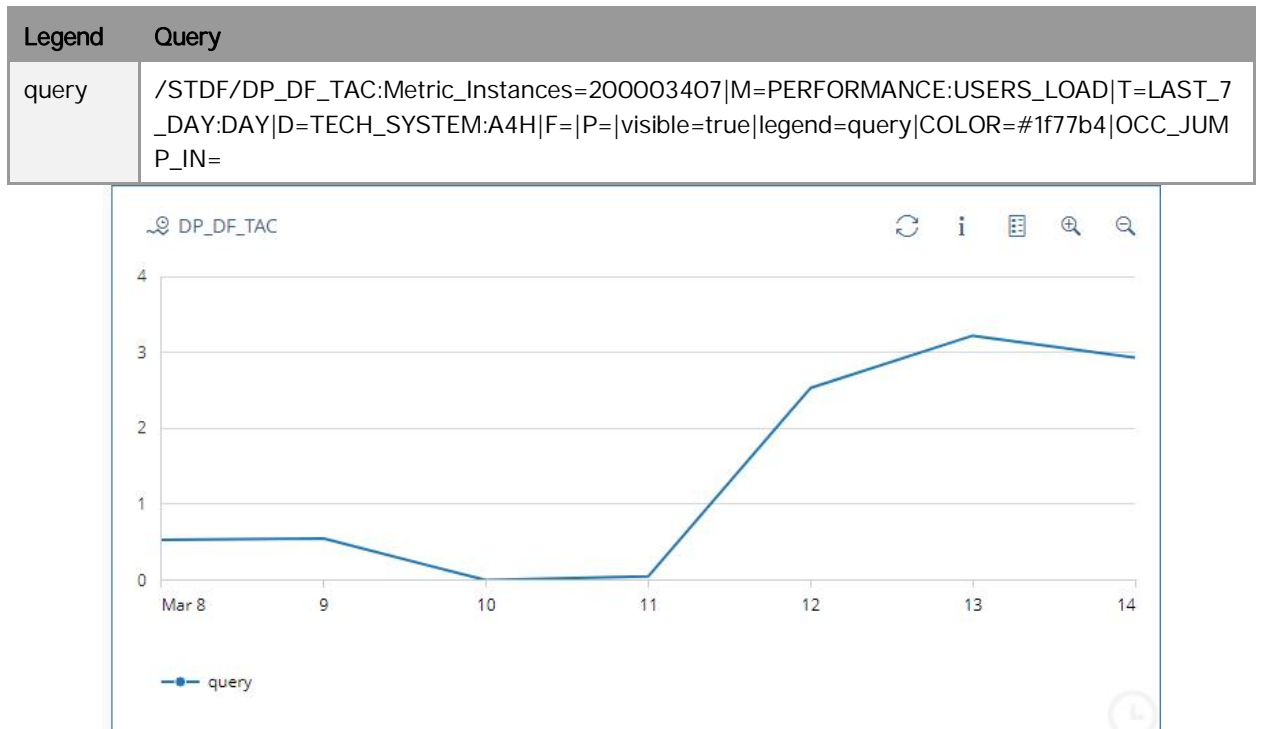


Figure 114. DP\_DF\_TAC Gadget

## 5.8 Data Provider /STDF/DP\_DVM (Data Volume Management)

The Data Volume Management Data Provider provides access to 4 keys metrics in the data volume management area.

As a Pre-requisites: setup Solution Manager DVM scenario.

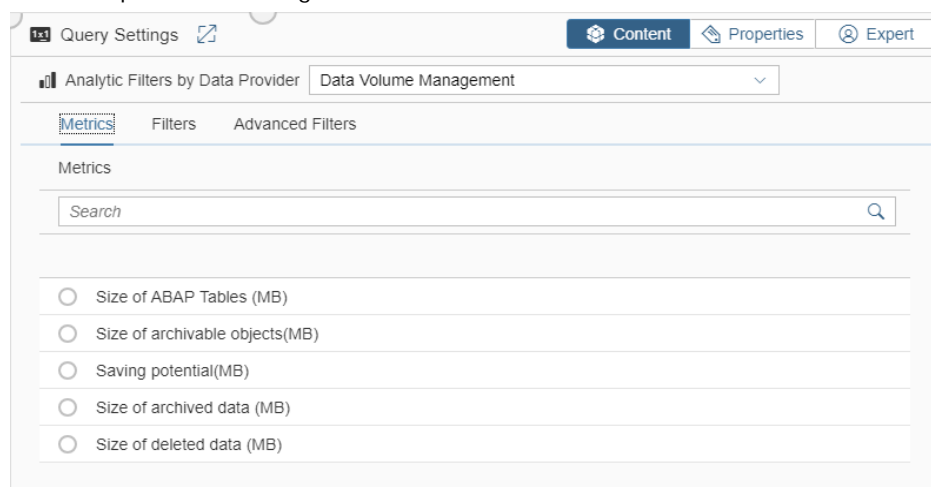


Figure 115. DVM DP: KPI List

This data provider gives you access to calculate:

- 1- Size of achievable objects (MB): Total size of DB data concerned by archiving process. See also Archive Administration tool in Solution Manager (TCODE SARA).
- 2- Saving potential (MB): Size of DB data that could be potentially archived by applying a given archiving strategy (prerequisite: configure a DVM saving potential scenario).
- 3- Size of archived data (MB): Size of data archived.
- 4- Size of deleted data (MB): Size of data deleted from the DB.
- 5- Size of ABAP table (MB): Total size of DB data.

Depending on the metric, several filters are possible (see table below): Scenario(s) (DVM saving potential scenario, dedicated configuration required), product(s), application area(s), technical system(s), archiving object(s), document type(s). For each filter it is possible to select one value, several values or all values.

Metric	Filters
Size of ABAP table (MB)	Product, Application Area, System, Document Type
Size of achievable objects (MB)	Product, Application Area, System, Archiving Object, Document Type
Saving potential (MB)	Scenario, Application Area, System, Archiving Object, Document Type
Size of archived data (MB)	Archiving Object, System
Size of deleted data (MB)	

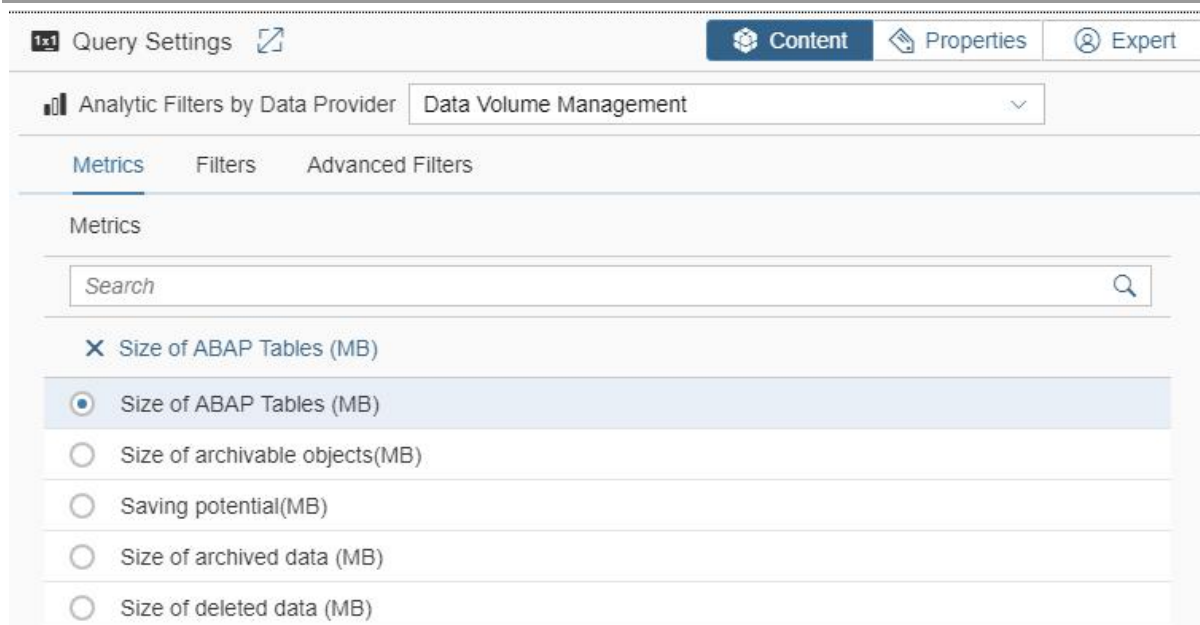


Figure 116. DVM data provider



Legend	Query
Size of ABAP Tables (MB)	/STDF/DP_DVM:COLOR=#1f77b4 legend=Size of ABAP Tables (MB) OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true Metrics=Size of ABAP Tables (MB) Filters= Advanced_Filters= Product=SAP SOLUTION MANAGER 7.2 Application_Area=BC System=A4H Document_type=ABAP Connectivity and Integration Tools

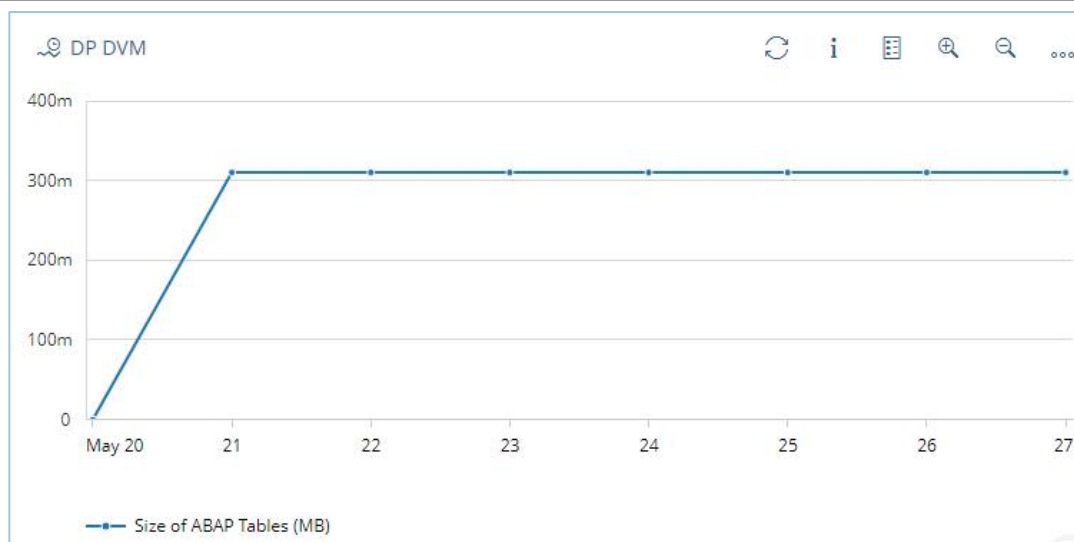


Figure 117. DVM DP detail view

## 5.9 Data Provider /STDF/DP\_MAI\_ALERTING

This data provider gives an access to calculate these metrics:

- 1- Number of alerts created (Number of new alerts created during the time period)
- 2- Current number of alerts (Current number of open alerts in the alert inbox during the requested time period)
- 3- Average alert processing duration (min) (Average processing time (in minutes) of open alerts in the alert inbox during the requested time period)
- 4- Average time from Alert is opened till confirmed by Operator (min) (Average time (in minutes) between the alert is opened (i.e. created by the system) until the alert is closed manually by the operator)
- 5- Number of alerts confirmed by Operator (Number of alerts closed by operator)
- 6- Maximum time from Alert is opened till confirmed by Operator (Min) (Maximum time (in minutes) between the alert is opened (i.e. created by the system) until the alert is closed manually by the operator)
- 7- Average time from Alert is opened till manual Incident is created (Min): (Average time in minutes between the alert is opened (i.e. created by the system) until the operator open an incident for this alert)
- 8- Number of manual Incidents created (Number of incidents opened by operator)
- 9- Maximum time from Alert is opened till manual Incident is created (Min) (Maximum time in minutes between the alert is opened (i.e. created by the system) until the operator open an incident for this alert)

For these metrics, we have to select the specified tabs and choose the appropriate information:

- Filters
  - Managed Object
  - Alert Name
  - Technical Scenario
- Options
  - Managed Object Type
  - Category
  - Rating
  - With incident
  - Severity

PS: Another tab named "Duration" exists and it applied only with the Current number of alerts metric.

The selected managed object must be compatible with the chosen managed object type, else the DP returns no data.

Figure 118. Gadget configuration (1)

Figure 119. Gadget configuration (2)

Analytic Filters by Data Provider Alert Monitoring Data Provider

KPI Filters Options **Duration**

Threshold Unit	Threshold Value	With Processor
<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>
<input checked="" type="radio"/> Day	<input checked="" type="radio"/> 2	<input type="radio"/> Yes
<input type="radio"/> Minute	<input type="radio"/> 1	<input type="radio"/> No
<input type="radio"/> Hour	<input checked="" type="radio"/> 2	
<input checked="" type="radio"/> Day	<input type="radio"/> 3	
<a href="#">More</a> [ 20 / 27 ]		

Figure 120. Gadget configuration (3)

The generated query is:

Legend	Query
L1	/STDF/DP_MAI_ALERTING:KPI=Counter_Cur CONTEXT_ID=OTO-ABAP ALERT= TECHNICAL_S CENARIO= CONTEXT_TYPE= CATEGORY= RATING= Incident= SEVERITY= Threshold_unit=Day  Threshold_value=2  processor= visible=true legend= COLOR=#1f77b4 OCC_JUMP_IN=

TEST DASHBOARD MAI_ALERTING									
Auto		Auto							
	ALERT_LINK	RATING	CATEGORY	MANAGED_OBJECT	TYPE	STATUS	START_TIME	END_TIME	
1	<a href="https://ldciotf.wdf.sap.corp.44378/">https://ldciotf.wdf.sap.corp.44378/</a>	3	EXCEPTION	OTO-ABAP	T SYSTEM	Transferred	05.03.2018 10:58:31	16.03.2018 11:32:08	Upd
							Duration =11 days > 2 days		

Figure 121. Detail view

PS: In this case, the returned result will show the alerts of the specified managed object that have a duration (Duration= END\_TIME - START\_TIME) equal or greater than 2 Days.

## 5.10 Data Provider /STDF/DP\_DF\_KPI

The Dashboard Factory KPI are predefined metrics offering best practices IT indicators abstracting the technical source of the data.

The Metrics are used by the Focused Insights Dashboards.

Query Settings [Content](#) [Properties](#) [Expert](#)

Analytic Filters by Data Provider: Dashboard Factory KPI

Metric Dimension SLA Filters Documentation

Category

Search

AVAILABILITY

PERFORMANCE

MONITORING

DATABASE

HW RESSOURCES

AVAILABILITY

CHANGE

EXCEPTION

Metric

Search

Percentage of Successful Runs ( EEM Availability )(EEM\_AVAIL\_RUNS)

Instance Availability Status-(AS STATUS)

Availability ABAP-(AVAILABILITY ABAP)

System Avail DR-(SYSTEM AVAIL DR)

Availability JAVA-(AVAILABILITY JAVA)

Availability Real Time-(AVAILABILITY RT)

Availability-(AVAILABILITY)

System avail DR-(AVAIL\_DR)

Figure 122. Gadget configuration (1)

Query Settings [Content](#) [Properties](#) [Expert](#)

Analytic Filters by Data Provider: Dashboard Factory KPI

Metric Dimension SLA Filters Documentation

Dimension Name

Search

EEM\_SCRIPT

EEM\_SCRIPT

EEM\_ROBOT

EEM\_SCENARIO

Dimension Value

Search

[ALL]

Wc\_availability\_on\_OFT

Figure 123. Gadget configuration (2)

Legend	Query
Selfmon	/STDF/DP_DF_KPI:Category=AVAILABILITY Metric=/STDF/CL_EEM_AVAIL_RUNS__1_0 Dim_name=OSMD_SCRI Dim_value=UXMon Selfcheck Script Period= SLA= G2Y= Y2R= UNIT= Filters= Documentation= OSMD_AGENT= OSMD_TSCN= legend=Selfmon visible=true COLOR=#1f77b4 OCC_JUMP_IN= display_value=false



Figure 124. Detail View

## 5.11 Data Provider /STDF/DP\_ITSM

The ITSM data provider gives an access to calculate these KPIs:

- 1- Number of Tickets For ITSM Transactions
- 2- Average Processing Time
- 3- Average Work Effort
- 4- Total Average Work Effort
- 5- Average Number of Status Iterations
- 6- Number of Tickets out of IRT
- 7- Number of Tickets out of MPT
- 8- Number of Open Tickets
- 9- Average deviation from MPT
- 10- Average deviation from IRT

For these metrics, we can filter on:

- 11- Transaction
- 12- Priority
- 13- Business Partner
- 14- Category level
- 15- Status

The following screenshots show an example of the gadget configuration for the Number of Tickets For ITSM Transactions:

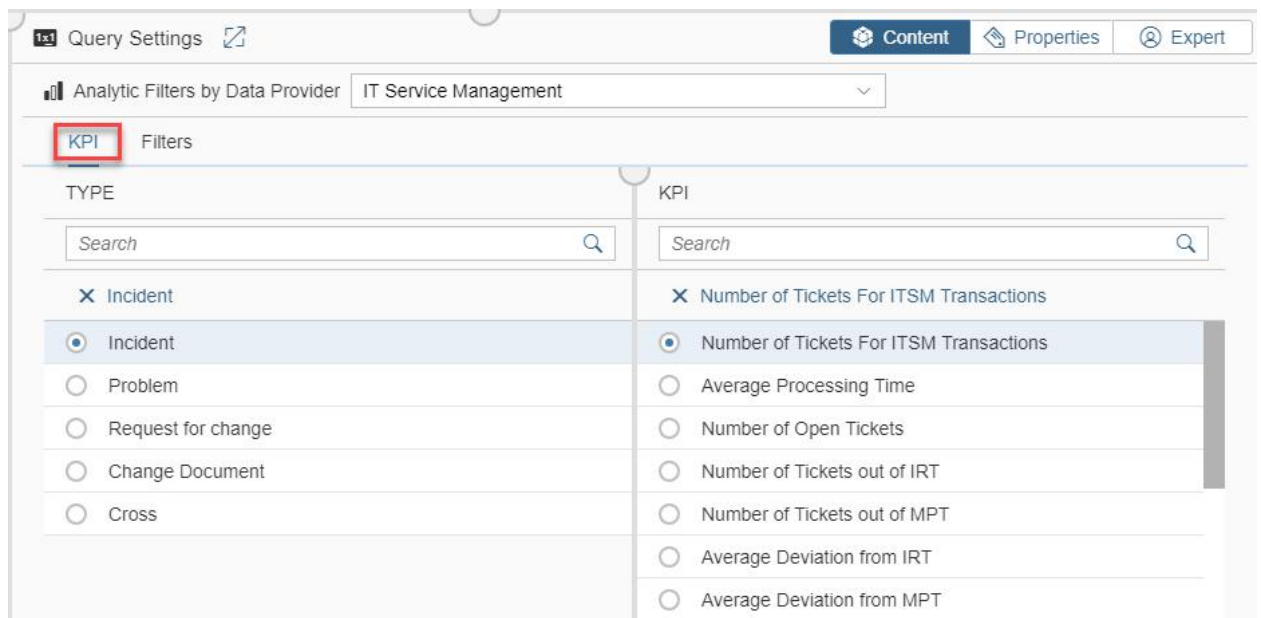


Figure 125. Gadget configuration (1)

1+1

Query Settings

Content

Properties

Expert

Analytic Filters by Data Provider

IT Service Management

KPI

Filters

Transaction	Priority	Support Team	Processor	Category Level 1	Status
<input type="text" value="Sear..."/>	<input type="text" value="Sear..."/>	<input type="text" value="Sear..."/>	<input type="text" value="Sear..."/>	<input type="text" value="Sear..."/>	<input type="text" value="Sear..."/>
<div>Defect</div> <div> <input type="checkbox"/> [All] <input checked="" type="checkbox"/> Defect <input type="checkbox"/> Defect Cor... <input type="checkbox"/> Test Case ... <input type="checkbox"/> Functional... <input type="checkbox"/> Incident <input type="checkbox"/> ZIncident </div>	<div></div> <div> <input type="checkbox"/> [All] <input type="checkbox"/> 0 <input type="checkbox"/> 1: Very High <input type="checkbox"/> 2: High <input type="checkbox"/> 3: Medium <input type="checkbox"/> 4: Low </div>	<div></div> <div> <input type="checkbox"/> [All] <input type="checkbox"/> BASIS_IM <input type="checkbox"/> 0000000332 <input type="checkbox"/> 0000000614 <input type="checkbox"/> QUADTD <input type="checkbox"/> Tobias Mei... <input type="checkbox"/> Print Media </div>	<div></div> <div> <input type="checkbox"/> [All] <input type="checkbox"/> Custom... <input type="checkbox"/> Holger ... <input type="checkbox"/> Christo... <input type="checkbox"/> Jagmoh... <div>More</div> <div>[ 20 / 39 ]</div> </div>	<div></div> <div> <input type="checkbox"/> [All] <input type="checkbox"/> Applicat... <input type="checkbox"/> SAP <input type="checkbox"/> Code <input type="checkbox"/> Configu... <input type="checkbox"/> Non SAP <input type="checkbox"/> Code </div>	<div>New</div> <div> <input type="checkbox"/> [All] <input checked="" type="checkbox"/> New <input type="checkbox"/> In Proc... <input type="checkbox"/> Tester A... <input type="checkbox"/> Sent to ... <input type="checkbox"/> Solution... <input type="checkbox"/> Confirmed </div>

Figure 126. Gadget configuration (2)

PS: When selecting a transaction type from the filters Tab, the appropriate lists of category and status are displayed automatically for the specified transaction.

The generated query is:

Legend	Query
New defects	/STDF/DP_ITSM:COLOR=#1f77b4 legend=New defects OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true TYPE=Incidents KPI=Number of Tickets For ITSM Transactions Transaction=S1DM Priority= Support_Team= Processor= Category_Level_1= Status=S1DM0001E0001

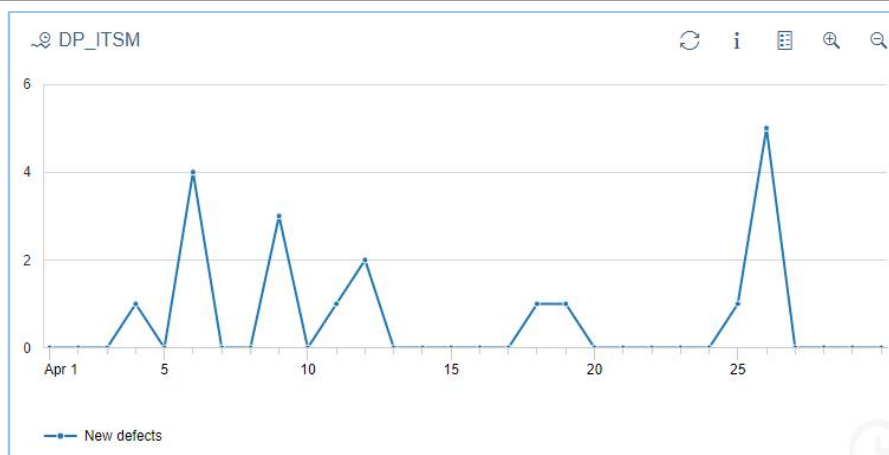


Figure 127. Detail View

## 5.12 Data Provider /STDF/DP\_CCM

The Custom Code Data Provider provides access to a set of pre-defined CCM KPIs that need to be configured in the DF Metric Instance editor.

As a Pre-requisites: Metrics have to be created with a webdynpro Wizard to extract the data from the CCLM ad-hoc reporting tables.

Schedule CCM job (Focused Insights GP setup).

The metric instances can be configured via webdynpro application:

Metric Instance Builder application link:

[https://host:port/sap/bc/webdynpro/stdf/wd\\_mi#](https://host:port/sap/bc/webdynpro/stdf/wd_mi#)

The following screenshots show an example of the gadget configuration for the DP\_CCM:

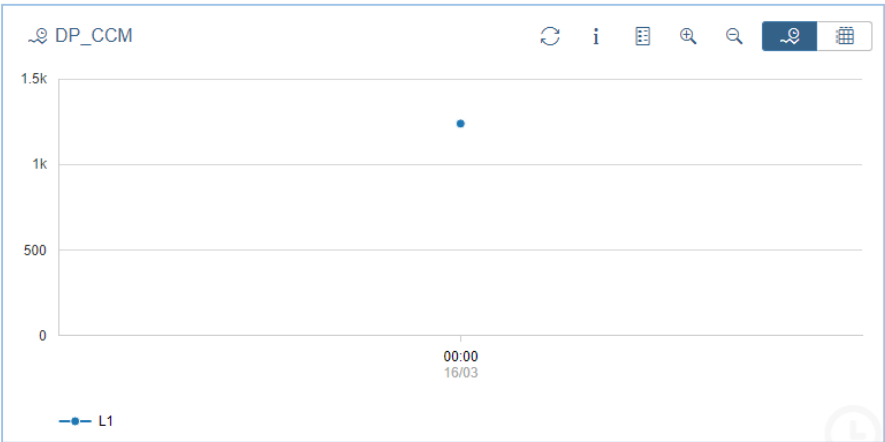


Figure 128. Gadget configuration

The generated query is:

Legend	Query
L1	/STDF/DP_CCM:legend=L1 COLOR=#1f77b4 OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true Metric_Instances=7 LIVE_COLLECT=TRUE

The screenshot shows the 'Query Settings' window for the 'Custom Code Management' data provider. It displays the 'Metric\_Instances' configuration. On the left, there is a list of metric instances with search bars. The first item, 'CC test test-Custom code objects with Quality issues', is selected and highlighted with a red box. Below it are other options like 'CC objects used-Custom code objects used', 'Nb. standard and custom code objects used QA-Nb. stand...', 'CC objects used QA-Custom code objects used', and 'CC objects Created-Custom code objects created'. On the right, the 'Live Collect' checkbox is checked and highlighted with a red box. The bottom of the window shows a 'More' button and a pagination indicator '[ 20 / 37 ]'.

Figure 129. CCM DP detail view

## 5.13 Data Provider /STDF/DP\_CRM

The data provider returns the number of objects found on CRM using a chosen saved search created in CRM. It traits all types of saved searches (i.e. incidents, normal change) and support daily, weekly and monthly aggregation.

P.S:

The saved search needs to provide the 'Transaction Type' in order to get a correct result. Otherwise, the message 'No transaction Type specified' appears.

When using the DYNAMIC TABLE renderer, there is a possibility of jump-in to the CRM UI from the link existing in the OBJECT\_ID field showing the result of the query.

The user may affect a drilldown operation on the displayed data using the "Drilldown" tab.

To use the STACK\_COLUMN\_CHART\_2LABEL, we should choose the period and resolution in the way that the gadget returns one value. (Examples: Today/Day, Last\_Month/Month...).

Also, we need to specify a legend like shown below:

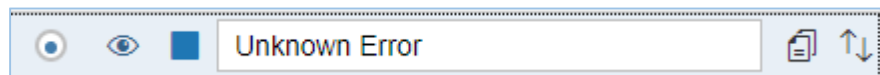


Figure 130. Legend

The '/' is required to get a correct display.

We have to be sure that the selected drilldown can be applied on the selected saved search.

The following screenshots show an example of the gadget configuration for CRM DP:

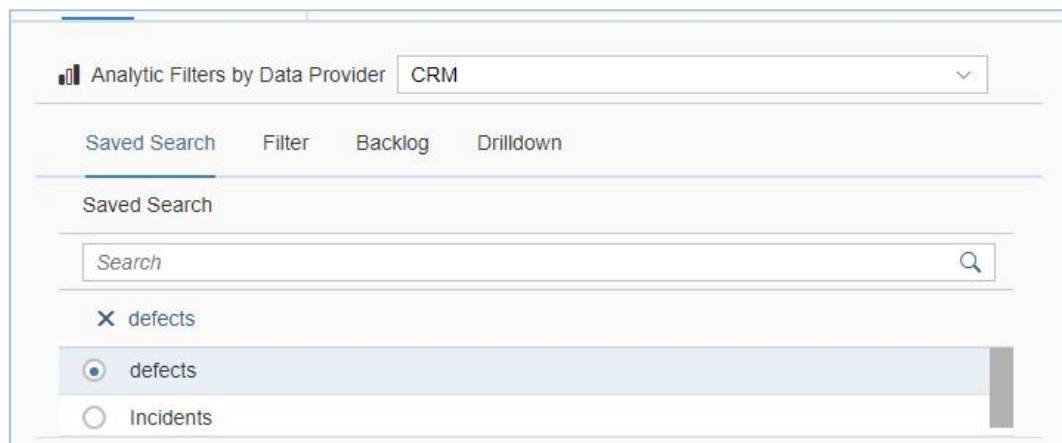


Figure 131. Gadget configuration (1)



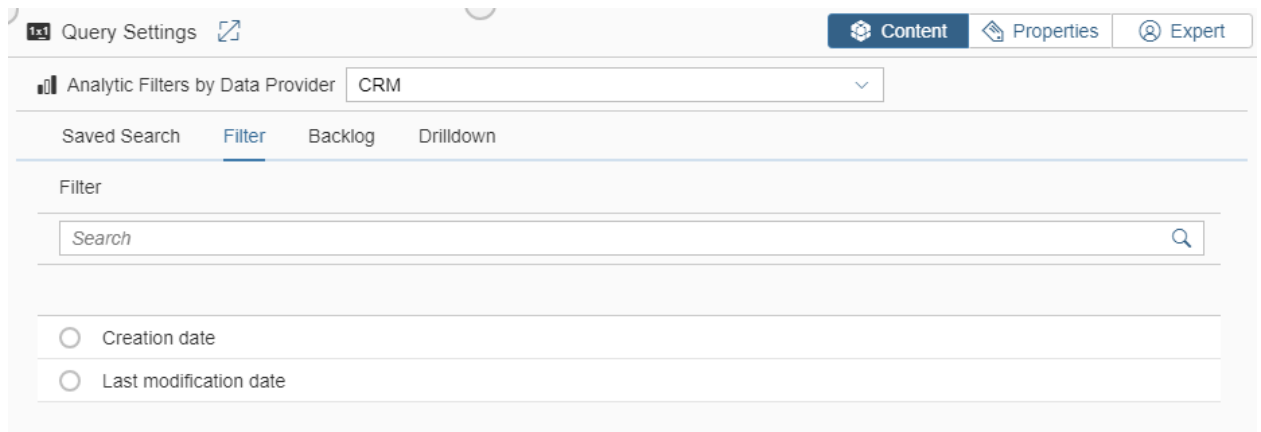


Figure 132. Gadget configuration (2)

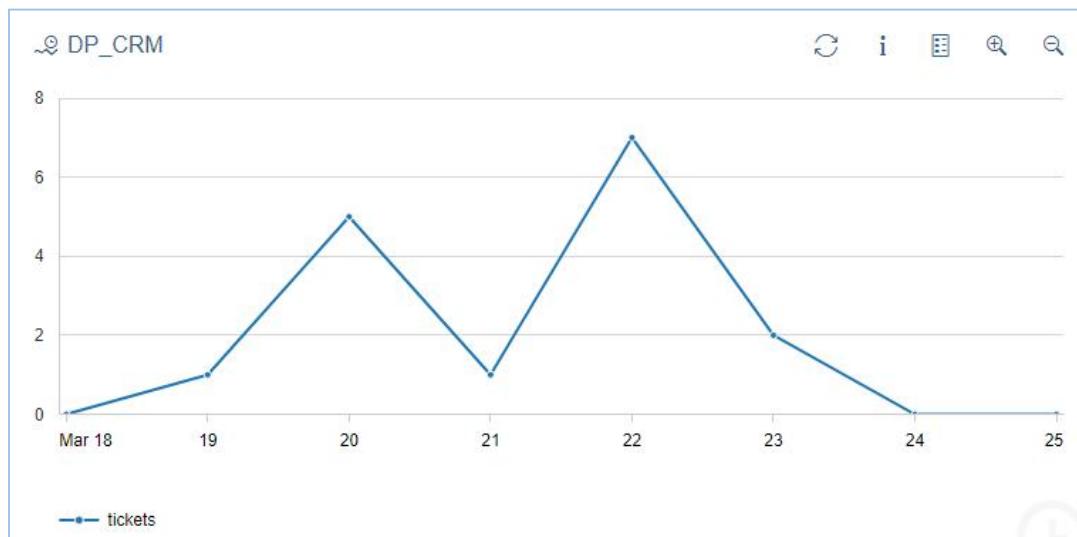


Figure 133. Detail view

## 5.14 Data Provider /STDF/DP\_CALCULATION

This data provider enables the user to affect mathematical operations on the different metrics. These operations are multiplication, addition, division and subtraction.

In order to use the /STDF/DP\_CALCULATION data provider, we have to proceed like shown below:

1. Create two queries. (Select a metric from any Data provider: In this case, we have select /STDF/DP\_DF\_TAC and the selected metric is availability)

Legend	Query
ABAP	/STDF/DP_DF_TAC:COLOR=#1f77b4 legend=ABAP OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true calcQuery=377 Metric_Instances=200003352 M=AVAILABILITY:AVAILABILITY T=YESTERDAY:DAY D=TECH_SYSTEM:A4H F=SYS_TYPE:ABAP P=

J2E	/STDF/DP_DF_TAC:COLOR=#aec7e8 legend=J2E OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true Metric_Instances=200003352 M=AVAILABILITY:AVAILABILITY T=YESTERDAY:DAY D=TECH_SYSTEM:J2E F=SYS_T YPE:JAVA P=
-----	--

2. Save the created gadget

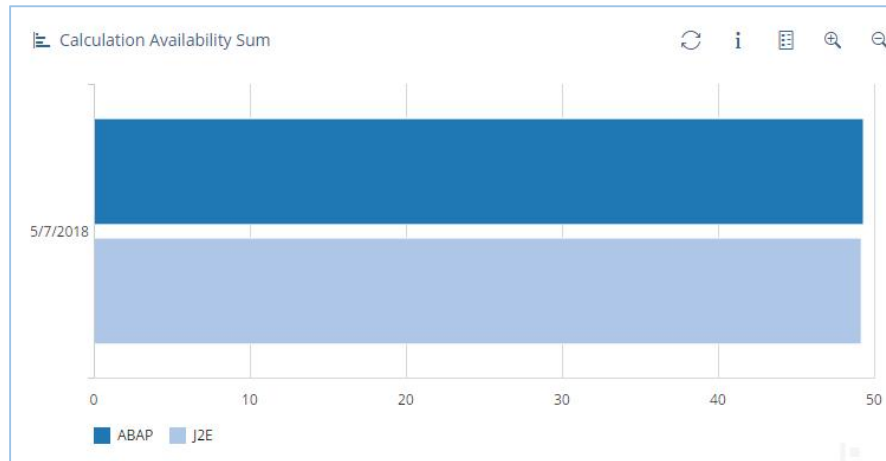


Figure 134. Detail view (ABAP and J2E availability)

3. Select the /STDF/DP\_CALCULATION data provider

4. Select an Operand1 (Example: ABAP)

5. Select an operator (Example: Add)

5. Select an Operand2 (Example: J2E)

The generated query is:

Legend	Query
SUM	/STDF/DP_CALCULATION:COLOR=#ff7f0e legend=SUM OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=false calcQuery=377 Oper and1=ABAP Operator=Add Operand2=J2E calcQuery=377

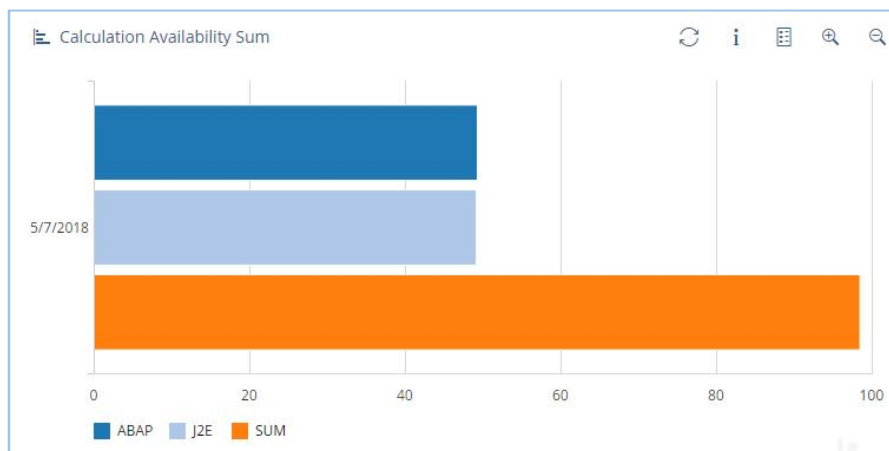


Figure 135. Detail view (ABAP, J2E availability and the sum)

## 5.15 Data Provider /STDF/DP\_DCM

This data provider gives you an access to calculate the KPIs using these filters:

- 1- Model Name
- 2- Comparison Name
- 3- Metrics

For this data provider we must select one metric in the list below:

- 4- Indicator
  - Number of objects existing only in system 1
  - Number of objects existing only in system 2
  - Number of common objects with differences
  - Number of identical objects
- 5- Quality
  - Number of run
  - Number of successful run
- 6- Summary
  - Number of compared objects
  - Number of inconsistencies

The screenshot shows a configuration interface for the Data Consistency Management data provider. It features three main columns for selection: Model Name, Comparison Name, and Metrics. The 'Model Name' column lists 'CDC\_DEMO\_BUSINESS\_PARTNER', 'ZDC\_DASHBOA', and 'ZODATA\_TAC', with 'CDC\_DEMO\_BUSINESS\_PARTNER' selected. The 'Comparison Name' column lists 'DEMO' and 'DEMO2', with 'DEMO2' selected. The 'Metrics' column lists several options, including 'Number of common objects with differences', 'Number of objects existing only in system 1', 'Number of objects existing only in system 2', 'Number of identical objects', 'Number of runs', 'Number of successful run', and 'Number of compared objects'. The 'Number of common objects with differences' metric is selected. The interface also includes a 'Query Settings' tab and buttons for 'Content', 'Properties', and 'Expert'.

Figure 136. Configuration Gadget

The generated query is:

Legend	Query
DP_DCM	/STDF/DP_DCM:COLOR=#1f77b4 legend=Query O OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES=  visible=true COMP_OBJ=CDC_DEMO_BUSINESS_PARTNER COMP_INST=DEMO2 METRI CS=3

DP_DCM			
	INCON_TYPE	OBJ_KEY_1	OBJ_KEY_2
1	3	134E3749149F4B11E10000000A42442C	
2	3	194E3749149F4B11E10000000A42442C	
3	3	72503749149F4B11E10000000A42442C	
4	3	73503749149F4B11E10000000A42442C	
5	3	9EEE9B4920D8383BE10000000A42442C	
6	3	9EEE9B4920D8383BE10000000A42442C	
7	3	F5513749149F4B11E10000000A42442C	

Figure 137. Detail View

An export button is available to have results displayed in CVS format.

## 5.16 Data provider /STF/DF/DP\_ICM

This Data Provider supports the Interface Channel Monitoring scenario.

The following screenshots show an example of configuration for the DP\_ICM gadget:

Query Settings

Content Properties Expert

Analytic Filters by Data Provider Interface Channel Monitoring

Filters Metric Options

Scenario	Channel	Interface
<input checked="" type="checkbox"/> Scenario for Self Monitoring	<input checked="" type="checkbox"/> A4H-SELF MONITORING 1 (RFC)	No data
<input type="checkbox"/> Connection Monitoring	<input checked="" type="checkbox"/> A4H-SELF MONITORING 1 (RFC)	
<input checked="" type="checkbox"/> Scenario for Self Monitoring	<input type="checkbox"/> A4H-SELF MONITORING 2 (HTTP)	
	<input type="checkbox"/> A4H-SELF MONITORING 3 (GW)	

Figure 138. Configuration gadget (1)

Query Settings

Content Properties Expert

Analytic Filters by Data Provider Interface Channel Monitoring

Filters Metric Options

Metric

Search

Average RFC Response Time

Number of exceptions in SAP S&OP (Data Integration)

Single exceptions in S&OP (Data Integration)

qRFC Throughput Inbound

qRFC Throughput Outbound

More

[ 20 / 231 ]

Parameter

Search

No data

Figure 139. Configuration gadget (2)

The generated query is:

Legend	Query
Average RFC Response Time	/STDF/DP_ICM:COLOR=#1f77b4 legend=Response time OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTE S= visible=true scenario=SELF MONITORING~INTER_MON channel=1255A578FFF21ED78CB415AD92C7BB38 interface= metric=ICMON_IFCHANNEL_RFC_RESPONSE_TIME parameter= Fill_gaps= aggregation=



Figure 140. Detail view

## 5.17 Data Provider /STDF/DP\_EWA

This data provider gives access to the history of EWA data.

In the following example we will use the DYNAMIC\_TABLE\_RENDERER as a renderer for a better display.

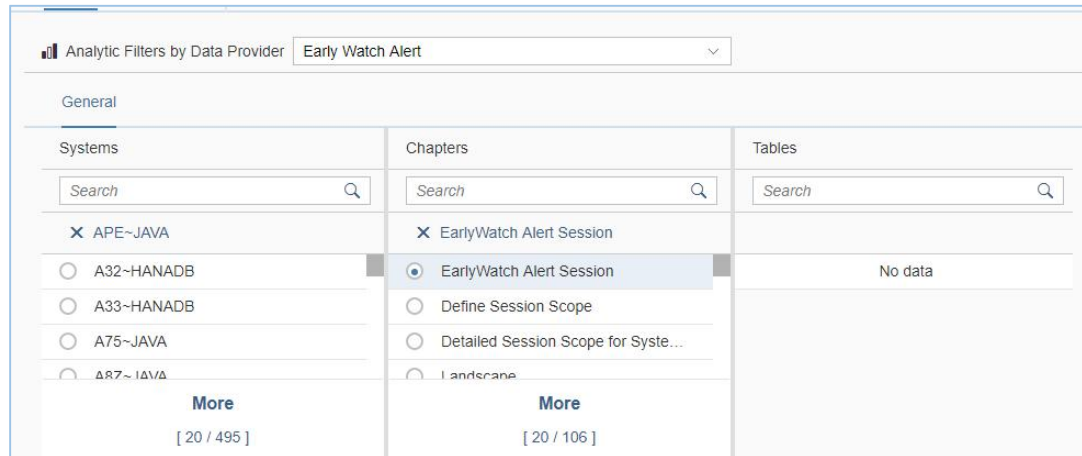


Figure 141. Gadget configuration

The generated query is:

Legend	Query
S4 HANA	/STDF/DP_EWA:COLOR=#1f77b4 legend=S4 HANA OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true Systems=S4H~ABAP Chapters=00001,SESSION,,EW_ROOT,EA001000 0002555 TABLE= display_value=false

EWA all chapters							
	SESSION_ID	CHAPTER_NAME	INCLUDED_IN_REPORT	INSTALLATION_NUMBER	SYSTEM_ID	DATE	RATING
192	0010000002555	Additional download information	No	0020624476	S4H	07.05.2018	undefined
193	0010000002555	SAP HANA Database HDB	Yes	0020624476	S4H	07.05.2018	Error
194	0010000002555	SAP HANA HDB	No	0020624476	S4H	07.05.2018	Error
195	0010000002555	HANA Download Function Module	No	0020624476	S4H	07.05.2018	Warning
196	0010000002555	Overview	Yes	0020624476	S4H	07.05.2018	Green
197	0010000002555	SAP HANA Critical Revisions	No	0020624476	S4H	07.05.2018	Green
198	0010000002555	SAP HANA Critical Operating System	No	0020624476	S4H	07.05.2018	Green
199	0010000002555	SAP HANA Stability and Alerts	Yes	0020624476	S4H	07.05.2018	Warning

Figure 142. Detail view

Rating Mapping: Each color has a specified indication:

Very critical è Red

Critical è Yellow

OK è Green

No rating è Green

Other è Grey

## 5.18 Data Provider /STDF/DP\_BPO

This data provider is used to monitor critical SAP business processes.

In order to use the /STDF/DP\_BPO data provider, we have to proceed like shown below:

1. Click on "Add query" button
2. Select the data provider '/STDF/DP\_BPO'
3. Add the 'Solution'
4. Add the 'System Role'
5. Add the 'Site'
6. Add the 'Scenario'
7. Add the 'Process'
8. Add the 'Step'
9. Add the 'Monitoring Object'
10. Add the 'Metric'
11. Choose the right time Range
12. Click on "Save" button

The image shows a configuration interface for 'Data Provider For BP monitoring'. The 'Context' tab is active, displaying three columns: 'Solution', 'System Role', and 'Site'. Each column has a search bar and a list of options. The 'Solution' column lists 'Corporate Solution - Operations()' (selected) and 'Corporate Solution - Production()'. The 'System Role' column lists 'Production System' (selected). The 'Site' column lists 'Global' (selected).

Solution	System Role	Site
<input checked="" type="radio"/> Corporate Solution - Operations()	<input checked="" type="radio"/> Production System	<input checked="" type="radio"/> Global
<input type="radio"/> Corporate Solution - Production()		

Figure 143. Configuration gadget (1)

The image shows the same configuration interface, but with the 'Business Process' tab active. It displays three columns: 'Scenario', 'Process', and 'Step'. Each column has a search bar and a list of options. The 'Scenario' column lists 'E2E\_Order-to-Cash' (selected) and 'E2E\_Procure-to-Pay'. The 'Process' column lists 'E2E\_OTC\_Sale-from-Stock Direct Sales' (selected). The 'Step' column lists 'Sales Order Entry' (selected), 'Create Sales Order', 'Sales Order IDocs Inbound', and 'Review Sales Orders'.

Scenario	Process	Step
<input checked="" type="radio"/> E2E_Order-to-Cash	<input checked="" type="radio"/> E2E_OTC_Sale-from-Stock Direct...	<input checked="" type="radio"/> Sales Order Entry
<input type="radio"/> E2E_Procure-to-Pay		<input type="radio"/> Create Sales Order
		<input type="radio"/> Sales Order IDocs Inbound
		<input type="radio"/> Review Sales Orders

Figure 144. Configuration gadget (2)





## 5.19 Data Provider /STDF/DP\_SOLDDOC

This Data Provider supports the Solution Documentation application.

The following screenshots show an example of configuration for the DP\_SOLDDOC gadget:

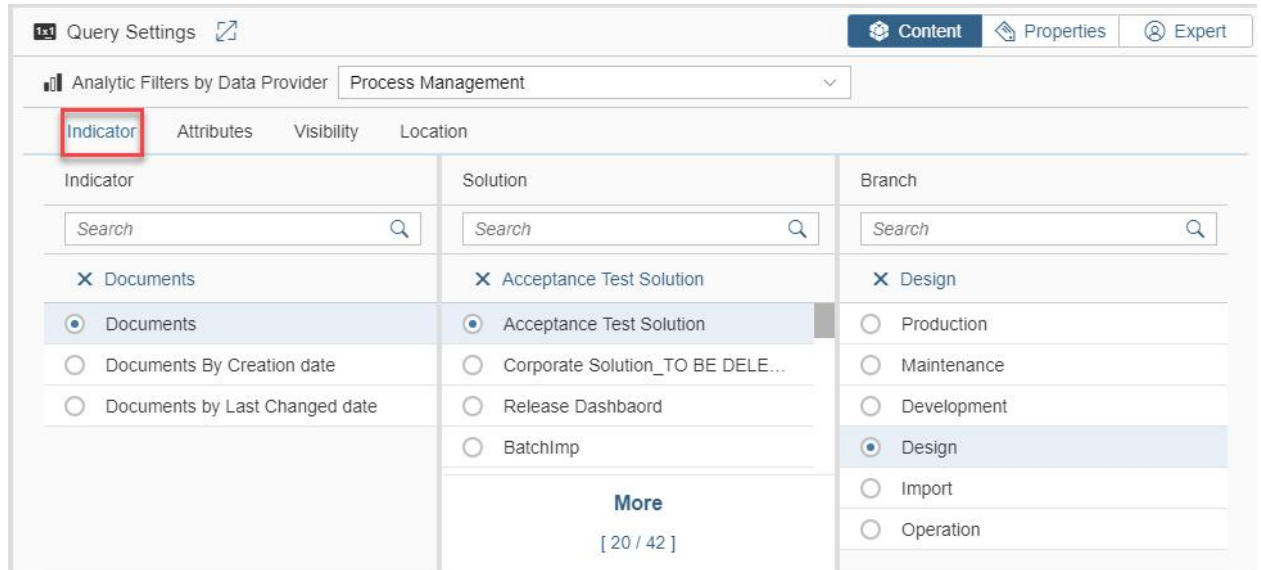


Figure 147. Gadget Configuration (1)

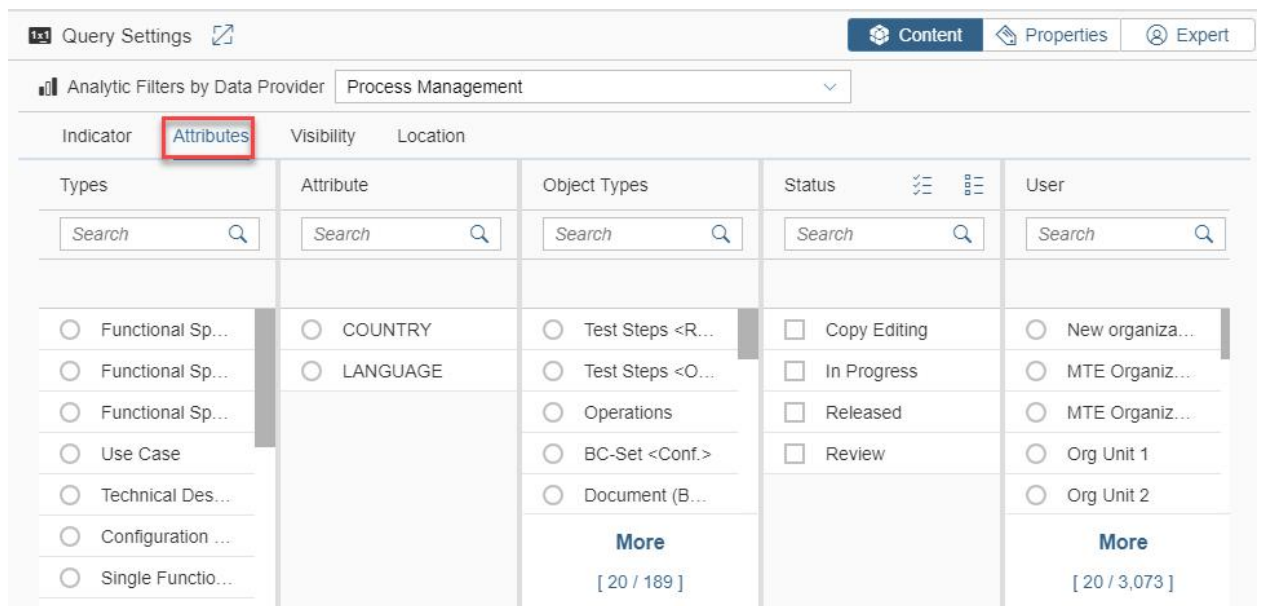


Figure 148. Gadget Configuration (2)

Query Settings [🔗](#) Content Properties Expert

Analytic Filters by Data Provider Process Management

Indicator   Attributes   **Visibility**   Location

Type	Scope	Sites	Role
<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>
<input type="radio"/> End-to-End Processes <input type="radio"/> Modular Processes <input type="radio"/> SAP Best Practices I... <input type="radio"/> SAP Model Company... <input type="radio"/> DG Test <input type="radio"/> Nicolas <input type="radio"/> AJ	<input type="radio"/> Show All <input type="radio"/> BRAEMERH <input type="radio"/> DE_Processes <input type="radio"/> dropDocs structures <input type="radio"/> ERP FIT Round1 <input type="radio"/> Holger's View <input type="radio"/> Logistics DE	<input type="radio"/> Global	<input type="radio"/> Organizational unit <input type="radio"/> User

Figure 149. Gadget Configuration (3)

Query Settings [🔗](#) Content Properties Expert

Analytic Filters by Data Provider Process Management

Indicator   Attributes   Visibility   **Location**

Libraries	Process
<input type="text" value="Search"/>	<input type="text" value="Search"/>
<input type="radio"/> <PACKAGES> <input type="radio"/> BC-MID-RFC <input type="radio"/> SV <input type="radio"/> BC-MID-ICF <input type="radio"/> BC-XI	<input type="radio"/> Order-to-Cash - Standard <input type="radio"/> Order-to-Cash - Rush Order <input type="radio"/> Procure-to-Pay - Standard <input type="radio"/> Procure-to-Pay - Short <input type="radio"/> Cause-based Time Recording
<a href="#">More</a> [ 20 / 108 ]	<a href="#">More</a> [ 20 / 59 ]

Figure 150. Gadget Configuration (4)

The generated query is:

Legend	Query
nbr doc	/STDF/DP_SOLDLOC:COLOR=#1f77b4 legend=nbr doc OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTE S= visible=true INDICATOR=2 SOLUTION=051MZfrl7jQGr3ihYVhm0W BRANCH=051MZfrl 7jQGr3ihYVhm0W OBJECT_TYPES= TYPES= STATUS= USER= ATTRIBUTE= ATTRIBUTE _V= SCOPE= ROLE= SITES= TYPE= LIBRARIES= PROCESS=

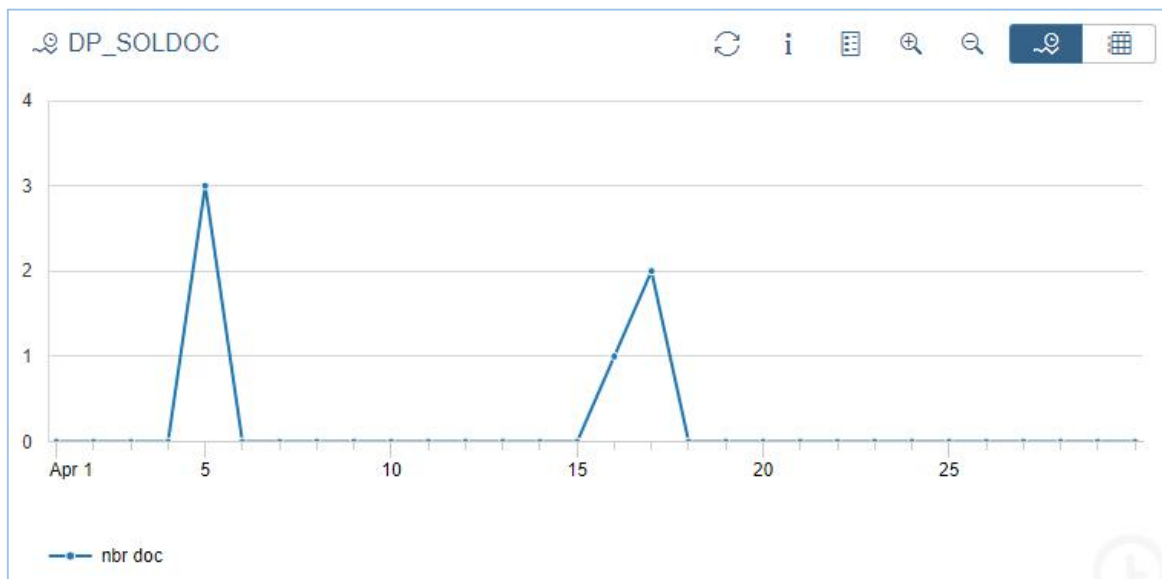


Figure 151. Detail View

## 5.20 Data Provider /STDF/DP\_BUILD

This data provider is designated to users using both Focused Insights and Focused Build Applications. It provides real-time insight on the most used documents of focused build based on a set of standard indicators for Velocity, Reliability Efficiency and Quality.

For this data provider we must select one metric in the list below:

- 1- Number: number of documents changing to the selected status (created, in dev, ...) for the given resolution (day, week, ...).
- 2- Lead time: number of days for a document to reach a target status from a source status for the given resolution.
- 3- Snapshot: number of documents having the selected status (created, in dev, ...) for the given resolution (day, week, ...).
- 4- Progress This indicator analyses the status of a document of a project for a specific wave. It returns a set of measurements to track the progress of wave completion between the start date of the Wave and the end date of the wave or the current date if the wave is not finished.

For this metric we use a new Renderer: Waterfall Chart

These metrics are used with the following parameters:

- 1- Document
- 2- Status
- 3- Target status
- 4- Classification
- 5- Projects

- 6- Sub projects
- 7- Wave
- 8- Sprint

And you can use the category levels:

- 1- Level 1
- 2- Level 2
- 3- Level 3
- 4- Level 4

The following screenshots show an example of the gadget configuration for the Number of Work Packages:

Figure 152. Gadget Configuration (1)

Figure 153. Gadget Configuration (2)

Query Settings
Content
Properties
Expert

Analytic Filters by Data Provider
Build

Parameters
Metric
Category

Level 1	Level 2	Level 3	Level 4
<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>
<div> <input type="radio"/> Applications <input type="radio"/> IT Infrastructure <input type="radio"/> Project <input type="radio"/> End User Workspace <input type="radio"/> Functional Integration Te... </div> <div> More [ 20 / 29 ] </div>	No data	No data	No data

Figure 154. Gadget Configuration (3)

The generated query is:

Legend	Query
CREATED	/STDF/DP_BUILD:OBJECT=S1IT STATUS=E0001 TARGET=E0017 CLASSIFICATION= PROJECTS= SUBPROJECTS= WAVE= METRIC=NUMBER legend=CREATED%20 visible=true COLOR=#dd2f04 OCC_JUMP_IN= display_value=false SPRINT= OPEN= CLOSED= LEVEL_1= LEVEL_2= LEVEL_3= LEVEL_4=

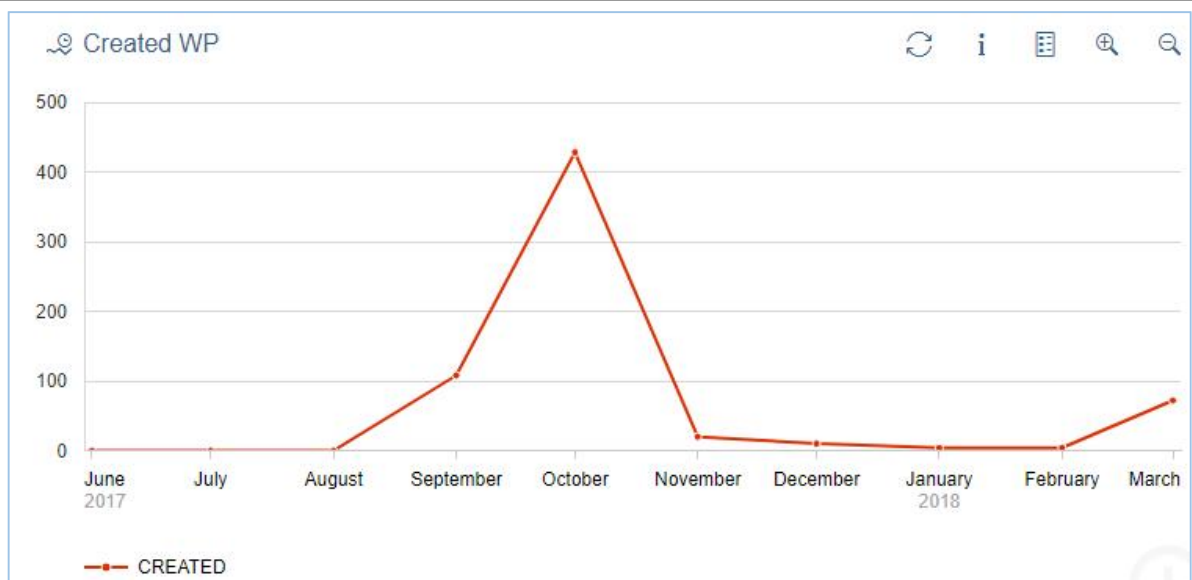


Figure 155. Detail View

## 5.21 Data Provider /STDF/DP\_SECURITY

The following screenshots show an example of configuration for the DP\_SECURITY gadget.

We choose as renderer the SLR\_TABLE\_RENDERER:

Figure 156. Gadget Configuration (1)

Figure 157. Gadget Configuration (2)

The generated query is:

Legend	Query
O-4 / PC4	/STDF/DP_SECURITY:legend=O-4 / PC4 COLOR=#aec7e8 OCC_JUMP_IN=DYNAMIC_TABLE SLA= TREND= g2y=100 y2r=20 0 color_rating=ONLY DISPLAY_ATTRIBUTES= CV_Report=Critical Basis Authorizations Metrics=USERS Selection=VALUE Target_Value= Compliance=NO visible= true display_value=false
O-4 / PQ6	/STDF/DP_SECURITY:legend=O-4 / PQ6 COLOR=#2ca02c OCC_JUMP_IN=DYNAMIC_TABLE SLA= TREND= g2y=3 y2r=4 col or_rating=ONLY DISPLAY_ATTRIBUTES= CV_Report=ABAP Profile

Parameters Metrics=PAHI Selection= Target_Value= Compliance=YES visible=true display_value=false		
DS Finance GPMR		
	PC4	PQ6
O-4	186.00	29.00

Figure 158. Detail View

## 5.22 Data Provider /STDF/DP\_FRUN

When using this data provider, you can consume FRUN services. You need first to configure system alias to consume Odata services.

The following screenshots show an example of configuration for the DP\_FRUN gadget.

Query Settings

Analytic Filters by Data Provider: FRUN

Configuration Alerts Filters

System Alias

Search

FRUNLMBFQ4

[Default]

FRUNLMBFQ4

Figure 159. Gadget Configuration (1)

Query Settings

Analytic Filters by Data Provider: FRUN

Configuration Alerts Filters

Alerts

Search

AlertsByCategory

AlertsByCategory

Category

Search

Configuration Availability

[All]

Availability

Configuration

Exceptions

Performance

Self-Monitoring

Rating

Search

[All]

Critical

Warning

Figure 160. Gadget Configuration (2)

Query Settings

Content Properties Expert

Analytic Filters by Data Provider

FRUN

Configuration Alerts **Filters**

Customer	Data Center	System Type	IT Admin Role	EXT System ID	Lifecycle Status
Search	Search	Search	Search		Search
<input type="checkbox"/> [All] <input type="checkbox"/> 789 <input type="checkbox"/> ABC <input type="checkbox"/> ADM <input type="checkbox"/> CID <div>More</div> <div>[ 20 / 41 ]</div>	<input type="checkbox"/> [All] <input type="checkbox"/> 123456781... <input type="checkbox"/> AMS <input type="checkbox"/> BER <input type="checkbox"/> BLN <div>More</div> <div>[ 20 / 27 ]</div>	<input type="checkbox"/> [All] <input type="checkbox"/> .NET System <input type="checkbox"/> Apache To... <input type="checkbox"/> Application ... <input type="checkbox"/> Application ... <div>More</div> <div>[ 20 / 23 ]</div>	<div>× Undefined</div> <input checked="" type="checkbox"/> [All] <input checked="" type="checkbox"/> Undefined <input type="checkbox"/> Production ... <input type="checkbox"/> Quality Ass... <input type="checkbox"/> Developme... <input type="checkbox"/> Maintenan... <input type="checkbox"/> Demo System		<div>× Undefined</div> <input checked="" type="checkbox"/> [All] <input checked="" type="checkbox"/> Undefined <input type="checkbox"/> Planned <input type="checkbox"/> Ordered <input type="checkbox"/> Installed <input type="checkbox"/> Active <input type="checkbox"/> Inactive

Figure 161. Gadget Configuration (3)

The generated query is:

Legend	Query
Alerts by category	/STDF/DP_FRUN:COLOR=#1f77b4 legend=Alerts by category OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true SYSTEM_ALIAS=FRUNLMDBFQ4-FRUNACCFQ4 ALERTS=AlertsByCategory Category=Configuration,Availability,Exceptions Rating= CUSTOMER= DATACENTER= STYPE= ITADROLE=, EXTSID= LCStatus=,0 display_value=false



Figure 162. Detailed View



## 5.23 Data Provider /STDF/DP\_BPA

With this data provider, you can display any metric available from Business Process Operation Dashboards.

BPO Dashboards provide a graphical display for application specific and technical key figures in order to give the end user an overview of the most important information for a certain business topic, area or process. This information can be retrieved from various SAP and non-SAP data sources and is displayed in panels. All information needed by the end user is provided at a glance on a single screen: a Dashboard.

The BPO Dashboards must be setup properly in order to use data provider /STDF/DP\_BPA. For more information, check related documentation.

In order to reuse BPO dashboards AKFIs (analytical key figure instances), you need to create a panel which includes the AKFIs. It is not necessary to setup a BPO Dashboard.

The following screenshots show an example of configuration for the DP\_BPA gadget.

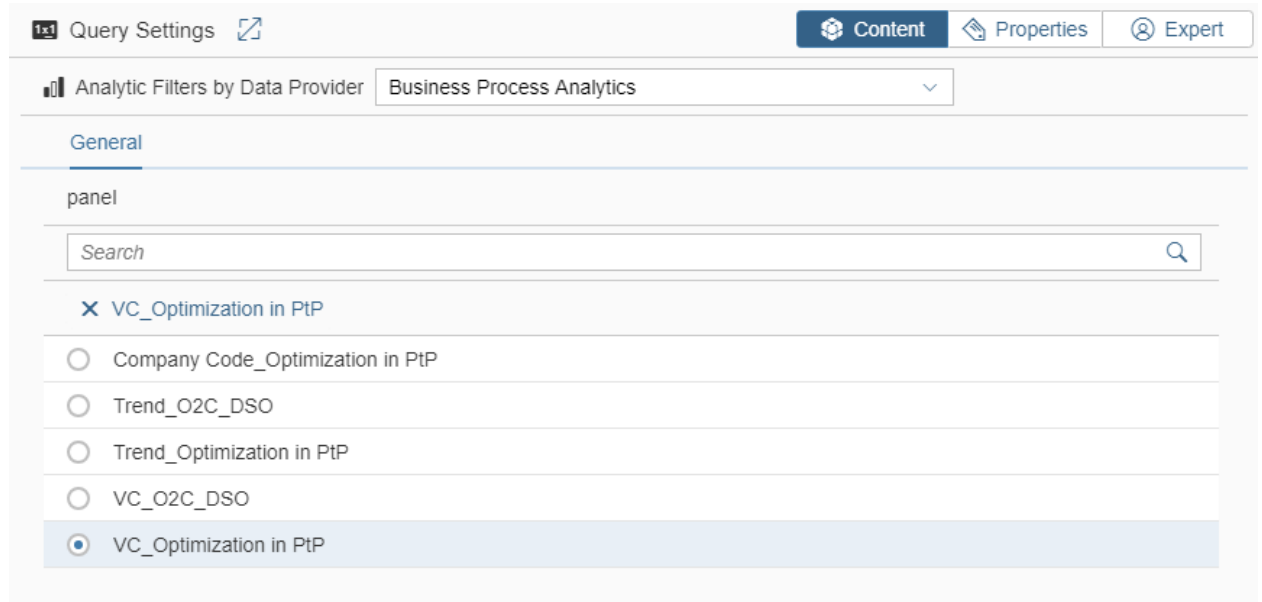
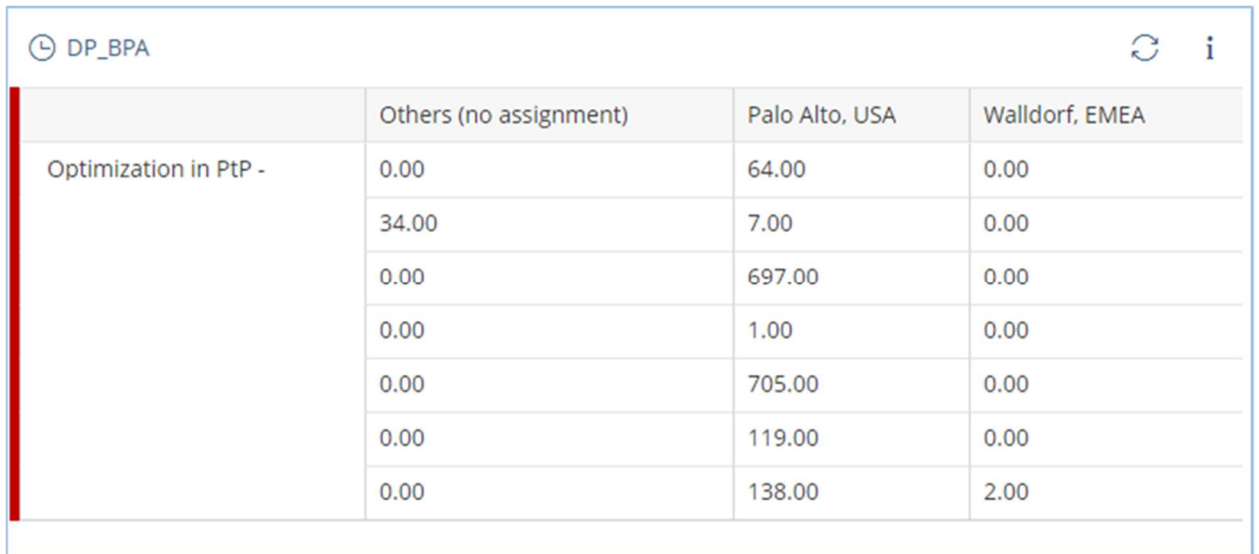


Figure 163. Gadget Configuration (1)

The generated query is:

Legend	Query
Optimization in PtP	/STDF/DP_BPA:COLOR=#1f77b4 legend=Optimization in PtP OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTE S= visible=true panel=VC_Optimization in PtP display_value=false



	Others (no assignment)	Palo Alto, USA	Walldorf, EMEA
Optimization in PtP -	0.00	64.00	0.00
	34.00	7.00	0.00
	0.00	697.00	0.00
	0.00	1.00	0.00
	0.00	705.00	0.00
	0.00	119.00	0.00
	0.00	138.00	2.00

Figure 164. Detailed View

## 5.24 Data Provider /STDF/DP\_TEST

With DP\_TEST we are able to answer the following questions

- How many test are executed?
- How many tests are executed automatically?
- What is the test coverage of the test execution?

For a selected project and wave we get the related test plans.

For those Test plans we calculated the following metrics:

Automation Rate : Number of automatic tests/ total number of tests.  
 Test Coverage : Number of tests with status "tested ok" / total number of testes.  
 Test Execution : Number of test executions  
 Automatic Test Execution : Number of automatic test executions  
 Number of test cases : Number of test cases

The following screenshots show an example of configuration for the DP\_TEST gadget.

Query Settings [Content](#) [Properties](#) [Expert](#)

Analytic Filters by Data Provider Test

**Parameters** Metric

Project	Wave	Test Plans
<input type="text" value="Search"/> <ul style="list-style-type: none"> <li><input checked="" type="radio"/> Build 2 AT</li> <li><input type="radio"/> Build 1 AT</li> <li><input checked="" type="radio"/> Build 2 AT</li> <li><input type="radio"/> Master AT</li> </ul> <p><a href="#">More</a></p> <p>[ 20 / 21 ]</p>	<input type="text" value="Search"/> <ul style="list-style-type: none"> <li><input checked="" type="radio"/> Wave 1</li> <li><input type="radio"/> Wave 2</li> </ul>	<input type="text" value="Search"/> <ul style="list-style-type: none"> <li><input type="checkbox"/> E_TP_1</li> <li><input type="checkbox"/> TP_OST200_WILLIAMS</li> </ul>

Figure 165. Configuration Gadget (1)

Query Settings [Content](#) [Properties](#) [Expert](#)

Analytic Filters by Data Provider Test

Parameters **Metric**

Metric

☒ Number of test cases

- ☐ Automation Rate
- ☐ Test Coverage
- ☐ Test Execution
- ☐ Automatic Test Execution
- ☒ Number of test cases

Figure 166. Configuration Gadget (2)

The generated query is:

Legend	Query
Test Cases	/STDF/DP_TEST:COLOR=#1f77b4 legend=Test Cases OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true Project=0050568E9D6F1ED69185FADEC4D26479 Wave=0050568E9D6F1ED69185FADEC4D7E479 TEST_PLAN=TP_OST200_WILLIAMS Metric=TEST_CASE visible=true legend= COLOR=#1f77b4 OCC_JUMP_IN= display_value=false

Test cases result for TP_OST200_WILLIAMS Test Plan			
	KEY	PARENT_KEY	ROOT_KEY
1	0050568E9D6F1ED69AA0457DE	0050568E9D6F1ED69AA0457DE	0050568E9D6F1ED69AA0457DE
2	0050568E9D6F1ED69AA04A08B	0050568E9D6F1ED69AA04A08B	0050568E9D6F1ED69AA04A08B
3	0050568E9D6F1ED69AA04BD97	0050568E9D6F1ED69AA04BD97	0050568E9D6F1ED69AA04BD97
4	0050568E9D6F1ED69AA075C06	0050568E9D6F1ED69AA075C06	0050568E9D6F1ED69AA075C06

Figure 167. Detailed View

## 5.25 Data Provider /STDF/DP\_SQLSCRIPTS

This data provider gives the user the possibility to execute SQL queries.

In the following example we will use the DYNAMIC\_TABLE\_RENDERER as a renderer for a better display.

The user of this data provider need an SQL query and DBCON

1:1 Query Settings

Content
Properties
Expert

Analytic Filters by Data Provider
Data Provider to execute SQL scripts

Query\_Instances

Query	DBCON
<input type="text" value="Search"/>	<input type="text" value="Search"/>
<input checked="" type="checkbox"/> HANA_Memory_TopConsumers	<input checked="" type="checkbox"/> HDB
<input type="radio"/> ITCALNDAR_NEXT_50_EVENTS	<input type="radio"/> ESH
<input type="radio"/> HANA_Memory_Overview_1.00.90+	<input type="radio"/> J2E
<input type="radio"/> HANA_Memory_Overview_HANA2	<input type="radio"/> HDBSYS_S
<input type="radio"/> HANA_Threads_CurrentThreads	<input type="radio"/> HDB00001
<input type="radio"/> HANA_Tables_DiskSize	<input type="radio"/> HDB00002
<input checked="" type="radio"/> HANA_Memory_TopConsumers	<input type="radio"/> HDBSYS_A
	<input type="radio"/> SAP_BPA
	<input checked="" type="radio"/> HDB

Figure 168. Configuration Gadget

Legend	Query
Top Consumers HANA Memory	/STDF/DP_SQLSCRIPTS:COLOR=#1f77b4 legend= Top Consumers HANA Memory OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true Query=HANA_Memory_TopConsumers DBCON=HDB

Top Consumers HANA Memory									
	HOST	PORT	AREA	SUBAREA	DETAIL	COUNT	GAL_GB		
1	any	any	COLUMN	Column Store (Main)	any	119205	256.00	80.1	
2	any	any	HEAP	Heap (System)	any	1704	256.00	27.7	
3	any	any	HEAP	Heap (System - Page Cache)	any	2	256.00	13.7	
4	any	any	HEAP	Heap (Column Store Tables)	any	8	256.00	11.2	
5	any	any	HEAP	Heap (Statement Execution & Intermediate Results)	any	1384	256.00	9.4	
6	any	any	COLUMN	Column Store (Delta)	any	119205	256.00	4.47	
7	any	any	ROW	Row Store (Tables)	any	6681	256.00	3.31	
8	any	any	HEAP	Heap (Caches)	any	72	256.00	3.2	
9	any	any	HEAP	Heap (Monitoring & Statistical Data)	any	213	256.00	2.9	

Figure 169. Detailed View

## 5.26 Data Provider /STDF/DP\_TRANSACTION

This data provider gives the user the possibility to monitor different metrics for different SAP transactions.

- 1- Total Response Time
- 2- Average Response Time
- 3- Average CPU Time
- 4- Average DB Time
- 5- Average Wait Time
- 6- Average roll Wait Time
- 7- Number of Dialogue Steps

For all the metrics we can do a drilldown on:

- Transaction
- Task
- Report

In the following example we will use the BAR\_CHART\_RENDERER as a renderer Type



## 5.27 Data Provider /STDF/BEX\_VIEW

The Bex\_View data provider give the user the possibility to display the saved BEX views he has created.

The displayed views can be configured as follow:

1. Execute **RSRT1** Transaction code in the SAP Logon.
2. Enter the Bex query name that the view will be created for. (For example, **OCCMPDATA//STDF/QD\_AVAILABILITY\_D**)
3. Execute the query

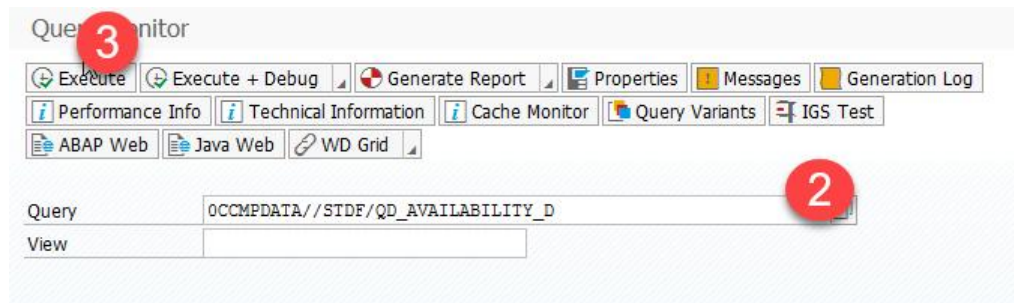


Figure 172. Configuration Steps 1 and 2

4. Enter the appropriate filters.
5. Save the view

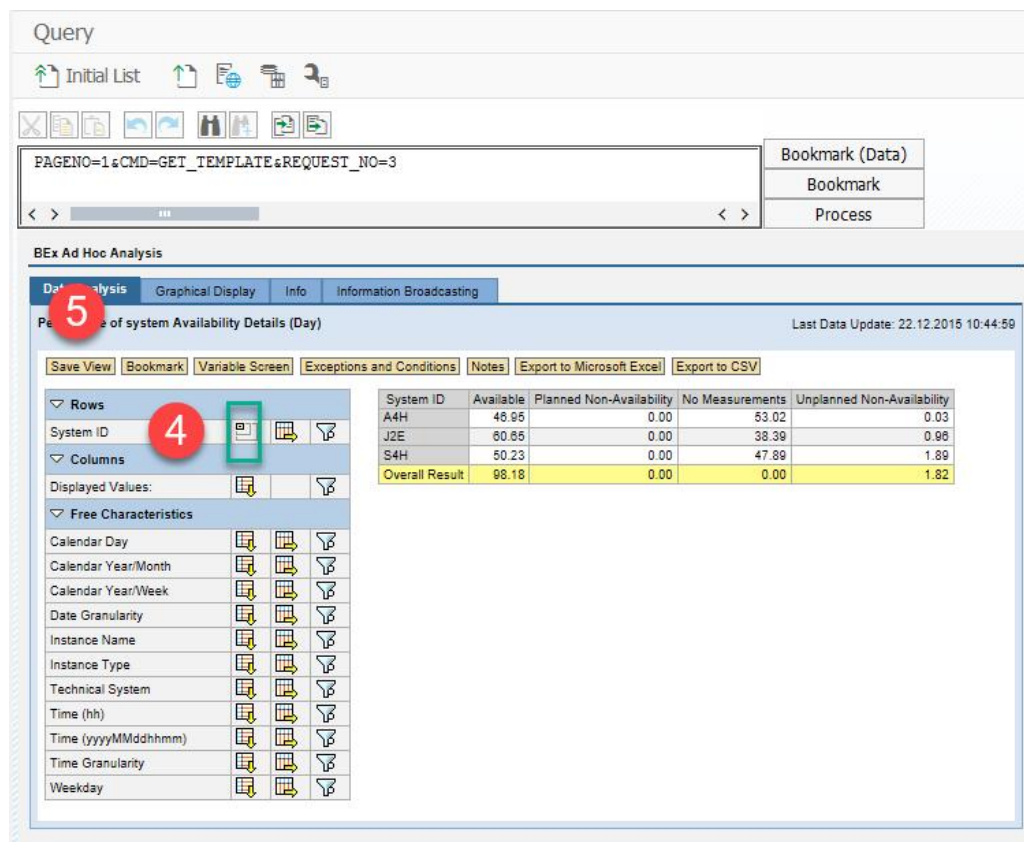


Figure 173. Configuration Steps 3 and 4

6. Enter the view description
7. Enter the view technical name
8. Click on save button

The image shows a 'Save View' dialog box. It has two text input fields: 'Description' and 'Technical Name', both containing the text 'System\_Availability'. Below these fields is a checkbox labeled 'Write Existing View' which is currently unchecked. At the bottom are 'Save' and 'Cancel' buttons. Red circles with numbers are overlaid on the image: circle 6 is over the 'Description' field, circle 7 is over the 'Technical Name' field, and circle 8 is over the 'Save' button.

Figure 174. Configuration Step 6,7 and 8

In this example we will use the DYNAMIC\_TABLE\_RENDERER as a renderer type and as we can see the views created are displayed within the DP Bex\_View in the OCC Dashboard

The image shows a configuration gadget interface. At the top, there are tabs for 'Query Settings', 'Content', 'Properties', and 'Expert'. Below the tabs, there is a section 'Analytic Filters by Data Provider' with a dropdown menu set to 'BEX VIEWS'. Underneath, there is a 'Views' section with a search bar. Below the search bar, there is a list of views. The first view is 'SYSTEM\_AVAIBILITY' with a red 'X' icon. The second view is 'SYSTEM\_AVAIBILITY' with a radio button icon. The second view is highlighted with a green box.

Figure 175. Configuration Gadget

Availability

	System ID	Available	Planned Non-Availability	No Measurements	Unplanned Non-Availability
1	A4H	46.95	0.00	53.02	0.03
2	J2E	60.65	0.00	38.39	0.96
3	S4H	50.23	0.00	47.89	1.89
4	SUMME	51.08	0.00	47.97	0.95

Figure 176. Detail View

## 5.28 Data Provider /STDF/DP\_TABLE

The Table data provider give the user the possibility to display the content of multiple systems table.



This DP is used with the following parameters (select options) and they are built according to the customer's entries in the Database table **/STDF/DP\_TAB\_SRC**.

- Alias
- Dimensions
- Key Figure
- Options (Aggregation, Drilldown)

The user should create a table entry in the Database table **/STDF/DP\_TAB\_SRC** as follow

1. Execute **SE11** Transaction code in the SAP Logon and tape **/STDF/DP\_TAB\_SRC** in the database table.
2. Click on the button change

ABAP Dictionary: Initial Screen

Database table  **1**

View

Data type

Type Group

Domain

Search help

Lock object  **2**

Display Change Create

Figure 177. Configuration Step 1 and 2

3. Click on the buttons contents.

Dictionary: Display Table

Transparent Table  Active **3**

Short Description

Attributes Delivery and Maintenance Fields Entry help/check Currency/Quantity Fields

Field	Key	Ini...	Data element	Data Type	Length	Deci...	Short Description	Group
ALIAS_NAME	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		CHAR	32	0		
RFC	<input type="checkbox"/>	<input type="checkbox"/>		STRING	0	0		
TABLE_NAME	<input type="checkbox"/>	<input type="checkbox"/>		STRING	0	0		
TIMESTAMP_FIELD	<input type="checkbox"/>	<input type="checkbox"/>		STRING	0	0		
DIMENSIONS_FIEL...	<input type="checkbox"/>	<input type="checkbox"/>		STRING	0	0		
KEYFIGURES_FIEL...	<input type="checkbox"/>	<input type="checkbox"/>		STRING	0	0		
TIMESTAMP_FORMAT	<input type="checkbox"/>	<input type="checkbox"/>		STRING	0	0		

Figure 178. Configuration Step 3

4. Click on the button Execute.

**4** Data Browser: Table /STDF/DP\_TAB\_SRC: Selection Screen

Number of Entries

ALIAS\_NAME  to

Width of Output List

Maximum No. of Hits

Figure 179. Configuration Step 4

- Click on the button create.

**5** Data Browser: Table /STDF/DP\_TAB\_SRC Select Entries 4

Table: /STDF/DP\_TAB\_SRC  
Displayed Fields: 1 of 7 Fixed Columns: [1] List Width 0250

<input checked="" type="checkbox"/>	ALIAS_NAME
<input type="checkbox"/>	DEMO_APP_TICKETS
<input type="checkbox"/>	OFT_UCONRFMCALLERATT
<input type="checkbox"/>	OTO_UCONRFMCALLERATT
<input type="checkbox"/>	S4H277_UCONRFMCALLERATT

Figure 180. Configuration Step 5

- The user should specify an ALIAS NAME, a RFC if the table is located in a distant system, TIMESTAMP FIELD, DIMENSIONS FIELDS, KEYFIGURES FIELDS, TIMES TAMP FORMAT

**6** Table /STDF/DP\_TAB\_SRC Insert

Reset

ALIAS NAME

RFC

TABLE NAME

TIMESTAMP FIELD

DIMENSIONS FIELDS

KEYFIGURES FIELDS

TIMESTAMP FORMAT

Figure 181. Configuration Step 6

The user at end should click on the button save.

In the following, an example of an entry in the table

Table /STDF/DP_TAB_SRC Display	
ALIAS NAME	DEMO_APP_TICKETS
RFC	
TABLE NAME	ZOCC_APP_TICKTS
TIMESTAMP FIELD	CALDAY
DIMENSIONS FIELDS	APPLICATION, SEVERITY
KEYFIGURES FIELDS	COUNTER
TIMESTAMP FORMAT	YYYYMMDDHHMMSS

Figure 182. Entry table example

Now, we will use the COLUMN\_CHART\_RENDERER as a renderer Type to display of the already created table DEMO\_APP\_TICKETS.

Query Settings

Content Properties Expert

Analytic Filters by Data Provider Table Data Provider

Alias Dimensions Key figure Options

Alias name

Search

DEMO\_APP\_TICKETS

DEMO\_APP\_TICKETS

OFT\_UCONRFMCALLERATT

OTO\_UCONRFMCALLERATT

S4H277\_UCONRFMCALLERATT

Figure 183. Configuration Gadget (1)

Query Settings

Content Properties Expert

Analytic Filters by Data Provider Table Data Provider

Alias Dimensions Key figure Options

DIMENSIONS	APPLICATION	SEVERITY
Search	Search	Search
No data	<input type="checkbox"/> CRM <input type="checkbox"/> ERP <input type="checkbox"/> HR	<input type="checkbox"/> HIGH <input type="checkbox"/> MEDIUM <input type="checkbox"/> VERY HIGH

Figure 184. Configuration Gadget (2)

1x1 Query Settings

Content Properties Expert

Analytic Filters by Data Provider Table Data Provider

Alias Dimensions Key figure Options

Key figures

☐ COUNTER

Figure 185. Configuration Gadget (3)

1x1 Query Settings

Content Properties Expert

Analytic Filters by Data Provider Table Data Provider

Alias Dimensions Key figure Options

Aggregation	Drilldown
<input type="text" value="Search"/>	<input type="text" value="Search"/>
<input type="radio"/> Average	<input type="radio"/> APPLICATION
<input type="radio"/> Maximum	<input type="radio"/> SEVERITY
<input type="radio"/> Sum	

Figure 186. Configuration Gadget (4)

Legend	Query
ERP / Very High)	/STDF/DP_TABLE:COLOR=#161af9 legend=ERP / Very High) OCC_JUMP_IN= SLA= TREND= G2Y=3 Y2R=10 COLOR_RATING=YES DISPLAY_AT TRIBUTES= FILTER_VALUE= visible=true ALIAS_NAME=DEMO_APP_TICKETS DIMENSIO NS= KEY_FIGURE=COUNTER AGGREGATION=SUM DRILLDOWN= APPLICATION=ERP S EVERITY=VERY HIGH Project= Wave= TEST_PLAN= Metric= display_value=false

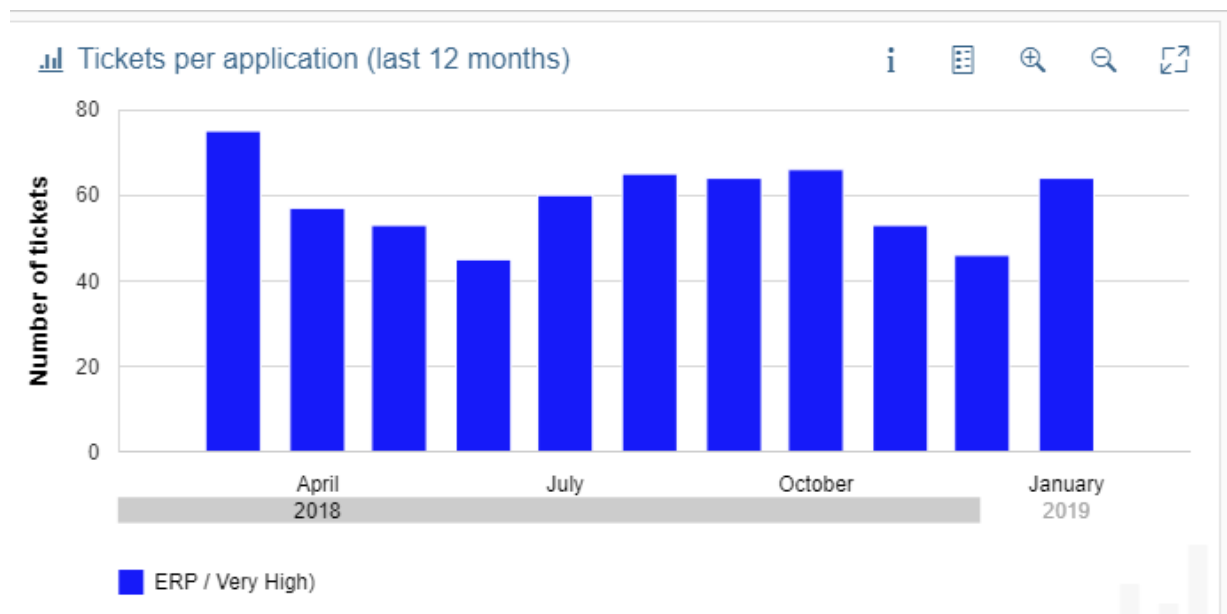


Figure 187. Detailed View

## 5.29 Data Provider /STDF/DP\_JSM (Job Scheduling Monitoring)

The Job Scheduling Monitoring Data Provider provides access to 7 keys metrics in the job scheduling monitoring area .

- Number of executions: the number of all execution jobs
- Average duration: the average of duration
- Total duration: the total all job duration
- Minimum duration: minimum duration of jobs (\*)
- Maximum duration: maximum duration of jobs (\*)
- Average delay: the average of the delay of jobs
- Total delay: all delay jobs
- (\*) Key figures not available with resolutions greater than hour; Duration is used instead.

Analytic Filters by Data Provider: Job scheduling management

Key Figure | Filters | Options | HTML Content

Key Figure

Search

- ☐ Number of executions
- ☐ Average duration
- ☐ Total duration
- ☐ Minimum duration
- ☐ Maximum duration
- ☐ Average delay
- ☐ Total delay

Figure 189: Available metrics for JSM data provider

The user can filter on:

- System
- Status
- Job Name
- Execution User
- Scheduling User

è All filters are multiple selection.

Analytic Filters by Data Provider: JSM Job data provider

Key Figure | **Filters** | Options

System	Status	Job Names	Execution User	Scheduling User
Sea... <input type="text"/>	Sea... <input type="text"/>	Sea... <input type="text"/>	Sea... <input type="text"/>	Sea... <input type="text"/>
<input type="checkbox"/> A4H	<input type="checkbox"/> Canceled	<input type="checkbox"/> /AIF/S...	<input type="checkbox"/> APPO...	<input type="checkbox"/> APPO...
<input type="checkbox"/> S4H	<input type="checkbox"/> Finished	<input type="checkbox"/> /BDL/T...	<input type="checkbox"/> BOSCHS	<input type="checkbox"/> BOSCHS
	<input type="checkbox"/> Released	<input type="checkbox"/> /BDL/T...	<input type="checkbox"/> BPINST	<input type="checkbox"/> BPA_C...
	<input type="checkbox"/> Scheduled	<input type="checkbox"/> /BDL/T...	<input type="checkbox"/> BPOP_...	<input type="checkbox"/> BPINST
		<input type="checkbox"/> /BDL/T...	<input type="checkbox"/> BWAL...	<input type="checkbox"/> BPOP_...
		<input type="checkbox"/> /BDL/T...	<input type="checkbox"/> CAMPO	<input type="checkbox"/> BRAE...
		<input type="checkbox"/> /IWBE...	<input type="checkbox"/> CCM_...	<input type="checkbox"/> BWAL...
		<input type="checkbox"/> /IWBE...	<input type="checkbox"/> CCM_...	<input type="checkbox"/> BWAL...
		<b>More</b>	<b>More</b>	<b>More</b>
		[ 20 / 1,2...	[ 20 / 30 ]	[ 20 / 35 ]

Figure 190: Filters tab

The user the drilldown on:

- System : the default is to do the drilldown on all system if there is no system selected .
- Status : the default is to do the drilldown on al status if there is no status selected .

- Job name : there is not default drilldown the user should at least select one job .
- Execution user : there is not default drilldown the user should at least select one user .
- Scheduling user : there is not default drilldown the user should at least select one user .

The screenshot shows the 'Options' tab of the 'Drilldown' section. It features a search input field with the placeholder text 'Search' and a magnifying glass icon. Below the search bar, there are five radio button options arranged vertically: 'System', 'Status', 'Job Name', 'Execution User', and 'Scheduling User'. The 'Options' tab is highlighted with a blue border.

Figure 191: Drilldown Tab

#### Example of configuration :

This is an example of the usage of the JSM data provider with the key figure : **Number of executions** .

The screenshot displays the 'Query Settings' window for the 'JSM Job data provider'. The 'Filters' tab is active, showing five filter categories: 'System', 'Status', 'Job Names', 'Execution User', and 'Scheduling User'. Each category has a search bar and a list of filter items. The 'Status' filter has 'Finished' selected. The 'Execution User' filter has 'SM\_EFWK' selected. The 'Scheduling User' filter has 'SOLMAN\_ADMIN' selected. The 'System' filter has 'A4H' and 'S4H' listed. The 'Job Names' filter has a list of job names including '/AIF/SAP\_AIF\_C...', '/BDL/TASK\_PRO...', and '/IWBEP/QUERY\_...'. The 'Execution User' filter has a list of users including 'APPOP\_CONFIG', 'BOSCHS', 'BPINST', 'BPOP\_CONFIG', 'BWALEREMOTE', 'CAMPO', and 'CCM\_CONFIG'. The 'Scheduling User' filter has a list of users including 'APPOP\_CONFIG', 'BOSCHS', 'BPA\_COMM', 'BPINST', 'BPOP\_CONFIG', 'BRAEMERH', and 'BWALEREMOTE'. Each filter category has a 'More' button and a count of items in brackets.

Figure 192: Selected Filters

Legend	Query
Query01111	/STDF/DP_JSM_JOB:COLOR=#1f77b4 legend=Query01111 OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES=SCHEDULE_USER,EXECUTION_USER,JOB_NAME,STATUS,DURATION,COUNTER,DELAY,DURATION_MIN,DURATION_MAX visible=true KEY_FIGURES=OSM_JSMNO SID= STATUS=Finished JOB_NAMES=EFWK RESOURCE MANAGER EX_USER=SM_EFWK SCH_USER=SOLMAN_ADMIN DRILLDOWN=STATUS display_value=false value_precision=2

The displayed result for the configured query is the following:

#### Line CHART:

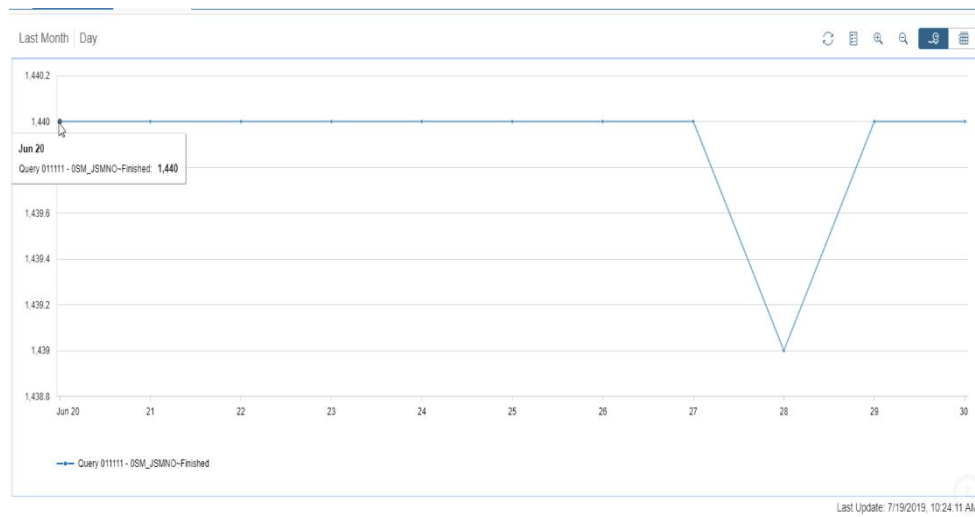


Figure 193: Line Chart-DP\_JSM

#### DYNAMIC TABLE:

The dynamic table contains all information of selected filters in addition of the key figures:

Schedule user , execution user , job name , status , duration , counter , delay , duration min , duration max .

	SCHEDULE_USER	EXECUTION_USER	JOB_NAME	STATUS	DURATION	COUNTER	DELAY	DURATION_MIN
1	SOLMAN ADMIN	SM EFWK	EFWKRESOURCEMANAG	Finished	5181.000	1440	20987.000	
2	SOLMAN ADMIN	SM EFWK	EFWKRESOURCEMANAG	Finished	5132.000	1440	25152.000	
3	SOLMAN ADMIN	SM EFWK	EFWKRESOURCEMANAG	Finished	5393.000	1440	26794.000	
4	SOLMAN ADMIN	SM EFWK	EFWKRESOURCEMANAG	Finished	5259.000	1440	27959.000	
5	SOLMAN ADMIN	SM EFWK	EFWKRESOURCEMANAG	Finished	4932.000	1440	29527.000	
6	SOLMAN ADMIN	SM EFWK	EFWKRESOURCEMANAG	Finished	5246.000	1440	31014.000	
7	SOLMAN ADMIN	SM EFWK	EFWKRESOURCEMANAG	Finished	5319.000	1440	32598.000	
8	SOLMAN ADMIN	SM EFWK	EFWKRESOURCEMANAG	Finished	5252.000	1440	34718.000	
9	SOLMAN ADMIN	SM EFWK	EFWKRESOURCEMANAG	Finished	5049.000	1439	36566.000	
10	SOLMAN ADMIN	SM EFWK	EFWKRESOURCEMANAG	Finished	5055.000	1440	37956.000	
11	SOLMAN ADMIN	SM EFWK	EFWKRESOURCEMANAG	Finished	5116.000	1440	38984.000	

Figure 194: Dynamic Table-DP\_JSM



To validate the displayed data we should define:

- Design Time
  - § Dimensions values & key figures are retrieved from Info Provider OSM\_JSM\_H
- Runtime Data
  - § For resolutions HOUR / RAW: Info Provider OSM\_JSM\_H
  - § For resolution DAY: Info Provider OSM\_JSM\_D
  - § For resolutions WEEK or above: Info Provider OSM\_JSM\_W

Figure 195: Data validation-DP\_JSM

For the same period the user should group all values by sum :

"OSM\_JSM\_D", List output

OSM_JSM...	OSM_JSMJU	JSM Job Name	OSM_JSM EU	Calendar Day	OSM_JS...	JSM Delay	Σ OSM_JSM...
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	4.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	1.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	6.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	2.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	2.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	1.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	5.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	5.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	1.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	1.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	1.000	0.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	7.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	1.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	6.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	11.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	1.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	1.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	2.000	1.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	3.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	4.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	6.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	1.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	6.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	13.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	4.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	1.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	7.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	6.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	5.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	4.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	1.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	4.000	14.000	1
Finished	SOLMAN_ADMIN	EFWK RESOURCE MANAGER	SM_EFWK	20.06.2019	5.000	14.000	1
							1,440

Figure 196: Validation Data- DP\_JSM

## 5.30 Data provider /STDF/DP\_ATC

The ABAP quality check is a data provider allows you to monitor several pre-defined Key product indicators. The DP\_ATC fetch data from the custom code management quality cockpit.

To be able to display data using the ATC data provider you should first have tasks that are configured to run on a regular basis in the quality cockpit.

To use the DP\_ATC, you should select an ATC Project (regular running task) and a Metric (key product indicator) from the general tab:

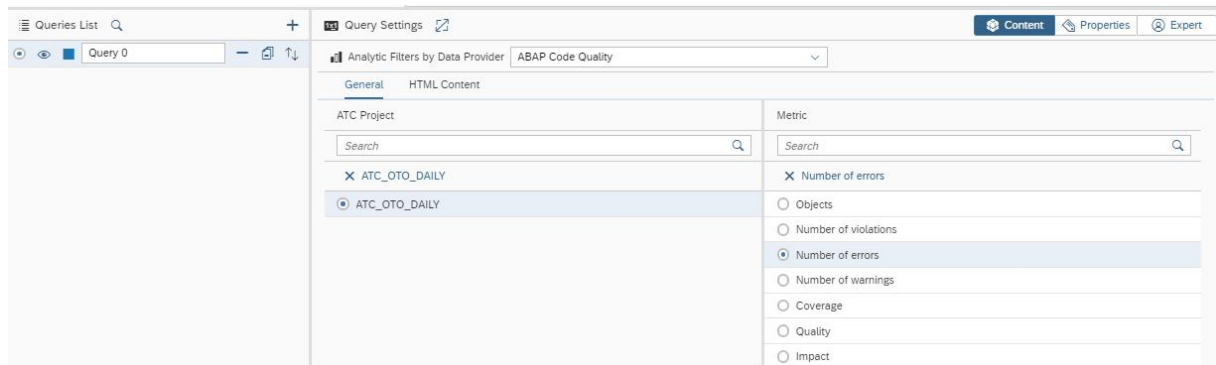


Figure 197: Select Options-DP\_ATC

The available metric list is the following:

- **Objects:** Number of objects that were analyzed.
- **Number of violations:** Number of errors and warnings together.
- **Number of errors:** Number of errors.
- **Number of warnings:** Number of warnings.
- **Coverage:** represents the number of used and tested objects (objects whose their "last used" column contains a date, if there is no date it means that the object is not used hence not taken into consideration).
- **Quality:** It is a float number (X.Y) which can be between 0.0 and 3.5 which can be considered as an overall quality indicator of the analysis. This metric must be displayed using the SLR renderer.
- **Impact:** number of used objects with issues divided by the total number of objects then multiplied by 100.

## Data Validation:

The user can validate the displayed data through the custom code improvement or just the quality cockpit by following the steps below:

1. Display first the projects list



Figure 197: quality cockpit landing page

2. Select the project name

Project List

Project	Description	Quality
<input checked="" type="radio"/> ATC_OTO_DAILY	ATC_OTO_DAILY	◇
<input type="radio"/>		
<input type="radio"/>		
<input type="radio"/>		
<input type="radio"/>		
<input type="radio"/>		
<input type="radio"/>		

● Critical ▲ To Be Improved ■ Information

Figure 198: project list

3. Select a time range, click on apply button then select a job

Analysis History

From: 23.12.2019  To: 27.12.2019

Date	Status	Quality	Total Objects	Started By
<input checked="" type="radio"/> 25.12.2019	Finished	◇	0	FI_CONFIG
<input type="radio"/> 24.12.2019	Finished	◇	0	FI_CONFIG
<input type="radio"/> 23.12.2019	Finished	◇	0	FI_CONFIG
<input type="radio"/> 23.12.2019	Finished	◇	0	FI_CONFIG
<input type="radio"/>				
<input type="radio"/>				
<input type="radio"/>				
<input type="radio"/>				

● Critical ▲ To Be Improved ■ Information

Figure 199: selecting a run

Now you use the following information to figure out the value of the selected metric

Object Statistics		
Total Number of Objects	2.200	
Number of Critical Objects -goal	1.320	100 %
Number of Objects to be Improved -goal	382	100 %
Total Number of ATC Results	9.246	
Number of ATC Errors	5.940	
Number of ATC Warnings	1.875	
Objects with no Results	0	

Figure 200: objects statistics

To calculate the value of the coverage metric you should access the object list:

Analysis History

From: 23.12.2019

To: 27.12.2019

Apply

Object List

	Date	Status	Quality	Total Objects	Started By
	25.12.2019	Finished		0	FI_CONFIG
	24.12.2019	Finished		0	FI_CONFIG
	23.12.2019	Finished		0	FI_CONFIG
	23.12.2019	Finished		0	FI_CONFIG

Critical

To Be Improved

Information

Figure 201 : objects list



## 5.31 Data provider /STDF/DP\_GADGET\_CALCULATION

The gadget calculation data provider is used to perform operations on data series using the SLA property of the query and it can also perform operations on more than one gadget using arithmetic operators (+, -, \*, /).

In a multi series chart the DP applies the SLA to each series then it sum them , for example if you have two gadgets with one of those using a multi-series line chart, say, three series, the equation form will be as follow : [SLA(serie1)+SLA(serie2)+SLA(serie3)](Gadget1) "operator(+,-,x, /)" [SLA(Serie)](gadget2), or you can simply display the Gdget1 without using the operators.

The following figure illustrate the calculation pad you will use to compose your equation:



Figure 202: Calculation pad

- 1- Available arithmetic operators
- 2- Brackets
- 3- Identify the gadget by its ID
- 4- Used to add numerical operators
- 5- Delete the selected element
- 6- Erase button

Below an illustrated example of the gadget calculation data provider usage:

1. Configure the first operand:
  - Select the column chart as a renderer.
  - In the "query list" click on the "Add query" button.
  - Add ATC (ABAP code quality) as a data provider
  - Select an ATC object and a metric
  - Click on save button to save the first Operand.

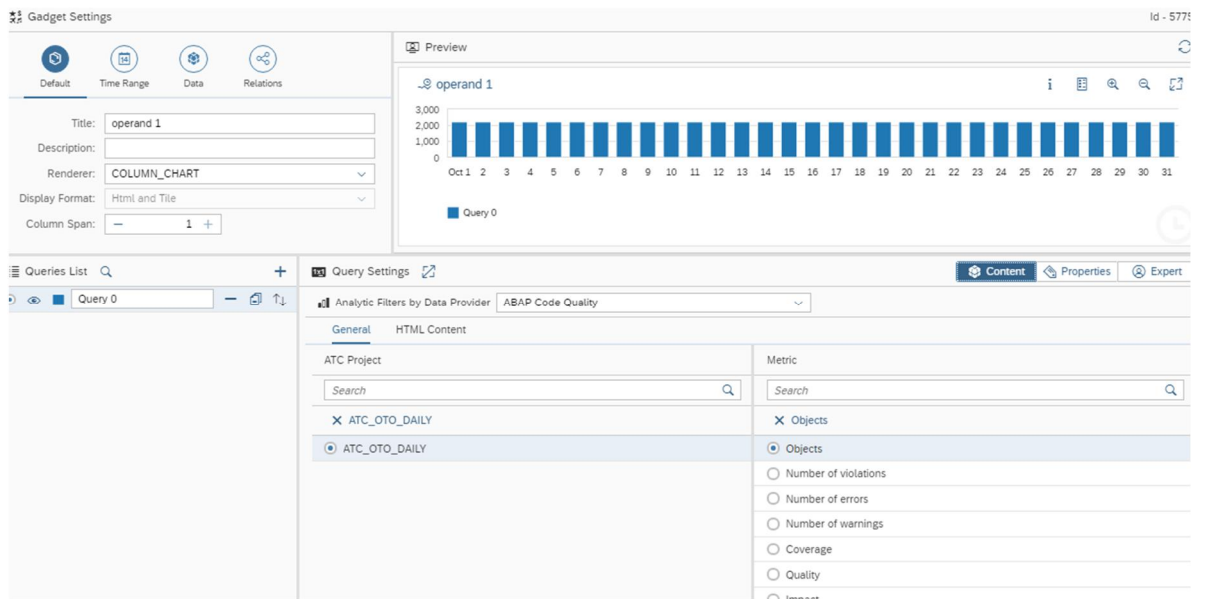


Figure 203: Operand1 configuration

## 2. Configure the second operand:

- Select the column chart as a renderer.
- In the "query list" click on the "Add query" button.
- Check the query's radio box
- Add ATC (ABAP code quality) as a data provider
- Select ATC\_AUTO\_DAILY as ATC object and number of violations as metric
- Click on save button

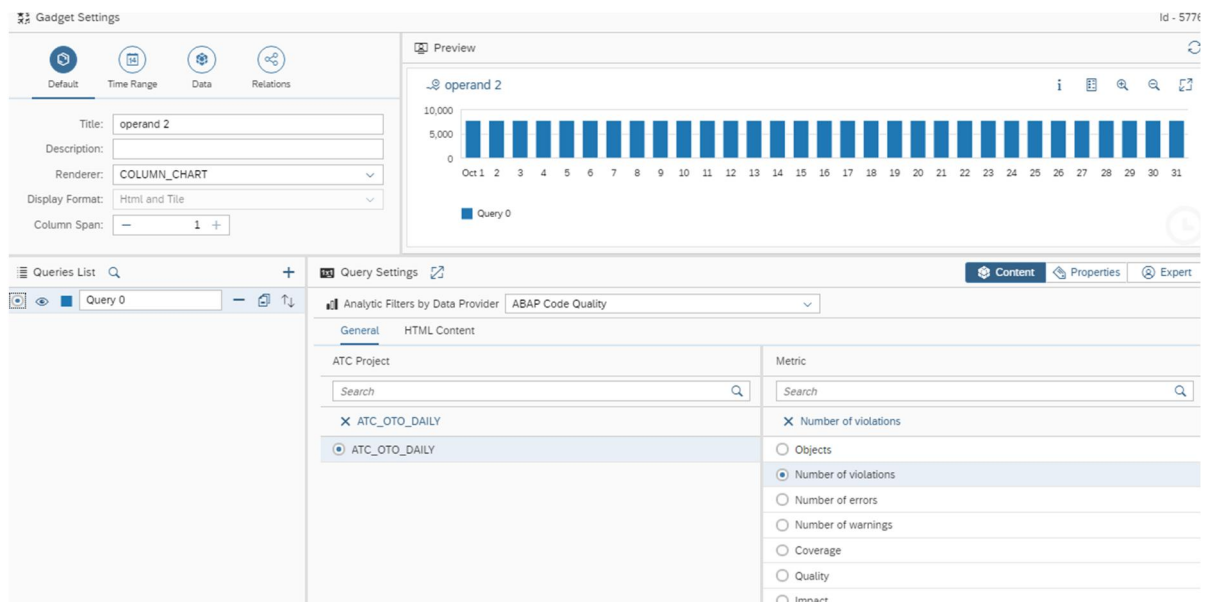


Figure 204: Operand2 configuration

### 3. Configure the result gadget:

- Select the column chart as a renderer.
- In the "Queries list" click on add a query button.
- In the query settings add the "DP\_Gadget\_Calculation" data provider.
- Click on GSUM button.
- Enter the ID of the Operand1 Gadget then click on "Add" button

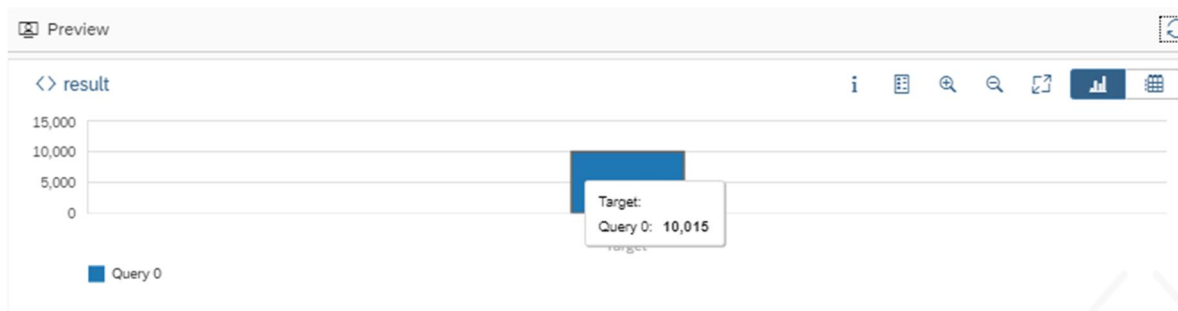
**GSUM Parameter**

---

Gadget Id

✓ Add   ✕ Close

- Select the "+" operator
- Click again on GSUM
- Enter the ID of the gadget "Operand2"
- Refresh the chart, the result should be the sum of the average value (as the SLA property is by default on average)



Note that you can change the SLA value by:

1. Select the first query
2. Go to "properties" Tab
3. Change the SLA to "Maximum", "Minimum", "SUM" ... for each one of the two operands to get a different result



## 5.32 Data Providers Status

The following table is displaying the data Providers status in SP03:

	New in SP05	In usage	Deprecated
DP_SYSMON		x	
DP_SYSMON_SNAPSHOT		x	
DP_EEM		x	
DP_EEM_BI		x	
DP_BPA_KPI		x	
DP_BEX_QUERIES		x	
DP_DF_TAC		x	
DP_DVM		x	
DP_MAI_ALERTING		x	
DP_DF_KPI		x	
DP_ITSM		x	
DP_CCM		x	
DP_CRM		x	
DP_CALCULATION		x	
DP_DCM		x	
DP_ICM		x	
DP_EWA		x	
DP_BPO		x	
DP_SOLDLOC		x	
DP_BUILD		x	
DP_SECURITY		x	
DP_FRUN		x	
DP_BPA		x	
DP_TEST		x	
DP_DF			x
DP_SQLSCRIPTS		x	
DP_BEX_VIEW		x	
DP_TRANSACTION		x	
DP_TABLE		x	
DP_JSM		x	
DP_ATC	x		
DP_GADGET_CALCULATION	x		

## 6 Renderers

### 6.1 Line Chart

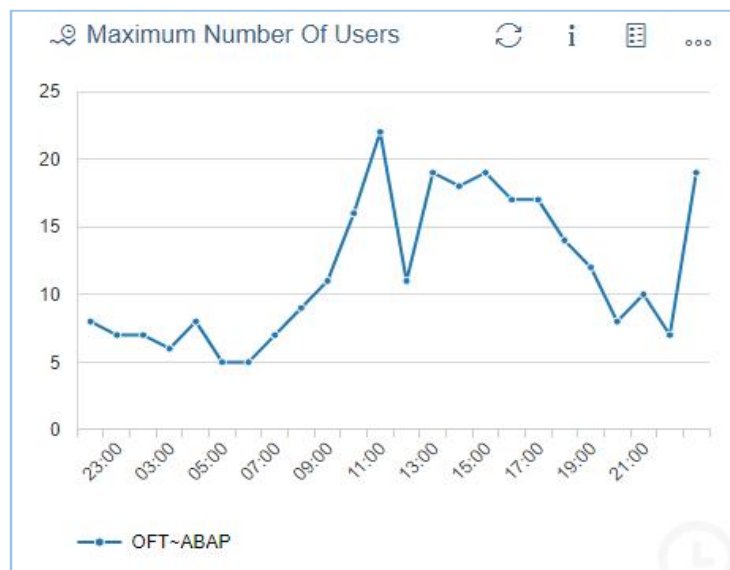


Figure 188. Line Chart

### 6.2 Bar Chart

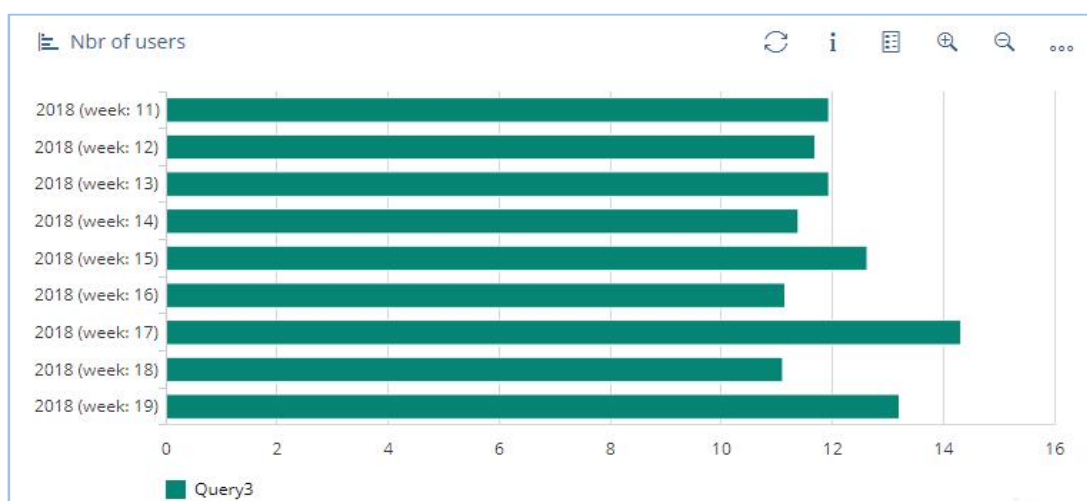


Figure 189. Bar Chart

## 6.3 Column Chart



Figure 190. Column Chart

To classify the data displayed in the column chart in different categories we can use the Color Categories parameter. In the following example showing how to configure it.

Query Settings

Jump in: Default Line Chart Renderer

SLA: Trend: Yellow Thresh...:

Display Value: O x Trend Line: Red Threshold:

Display Attribu...: Color Rating:

Filter Values:

Color Categories: January 2019,December 2018:Months 1,#14d140& October 2018,November 2018:Months 2

Figure 191. Color Categories Configuration

Color Categories: January 2019, December 2018:Months 1,#14d140& October 2018,November 2018:Months 2,#fc053e

"|": Delimiter between values

"|": Delimiter between column name and category

"&": Delimiter between different color categories

#14d140 and #fc053e are the color codes related to each category.

Months 1 and Months 2 are the names of each category.



Figure 192. Color Categories Detailed View

## 6.4 Line Column

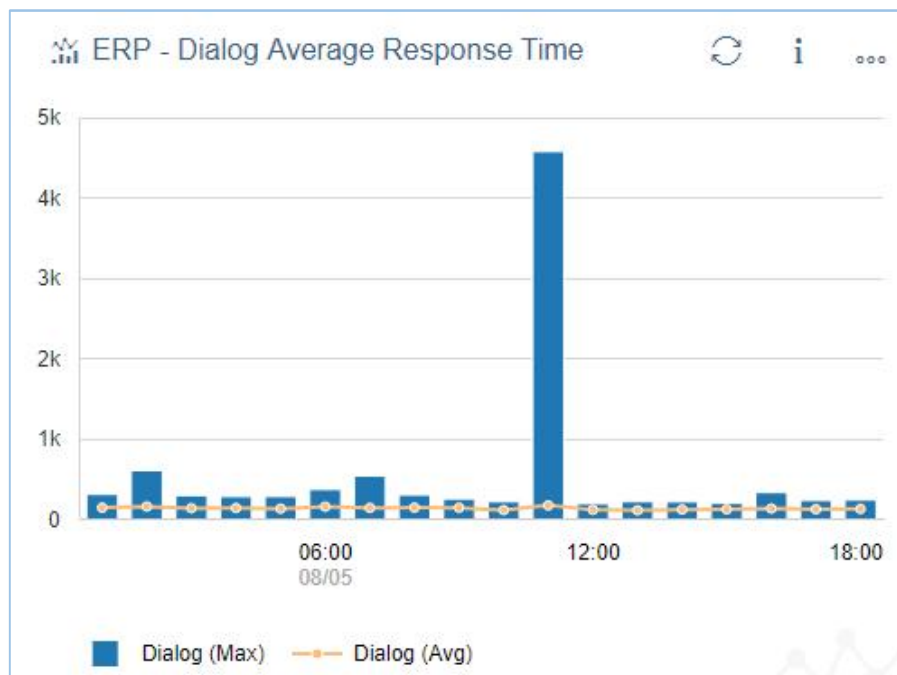


Figure 193. Line Column

## 6.5 Pie Chart

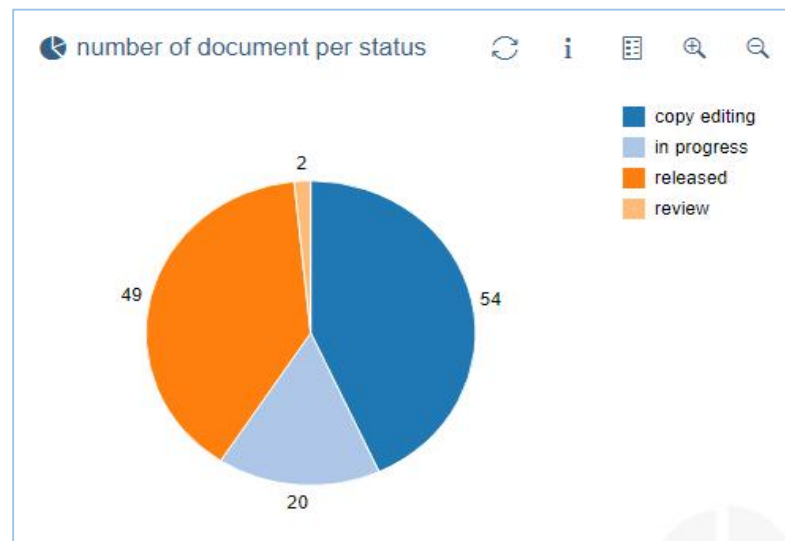


Figure 194. Pie Chart

## 6.6 Donut Chart

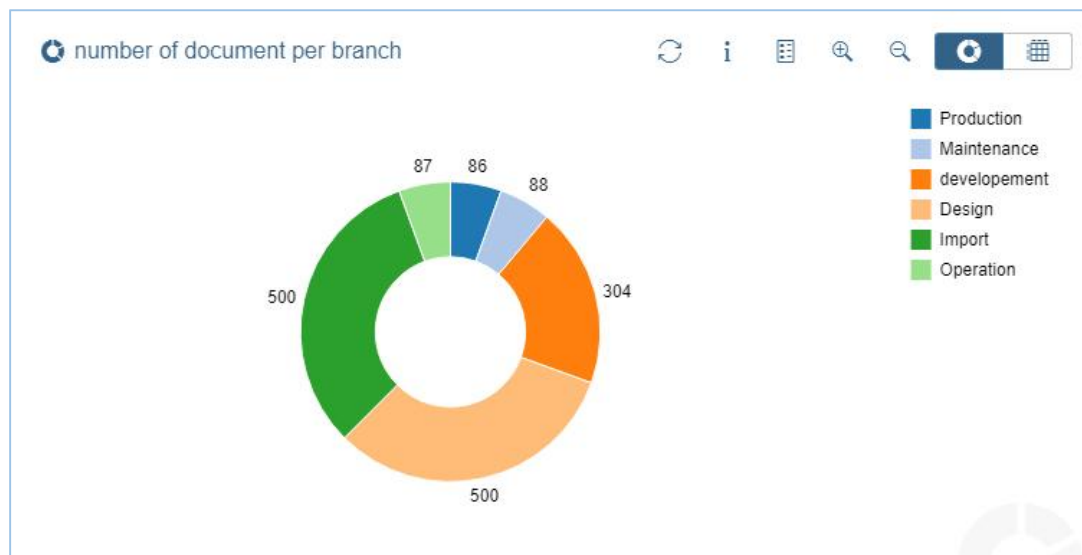


Figure 195. Donut Chart

## 6.7 Dual Bar Chart

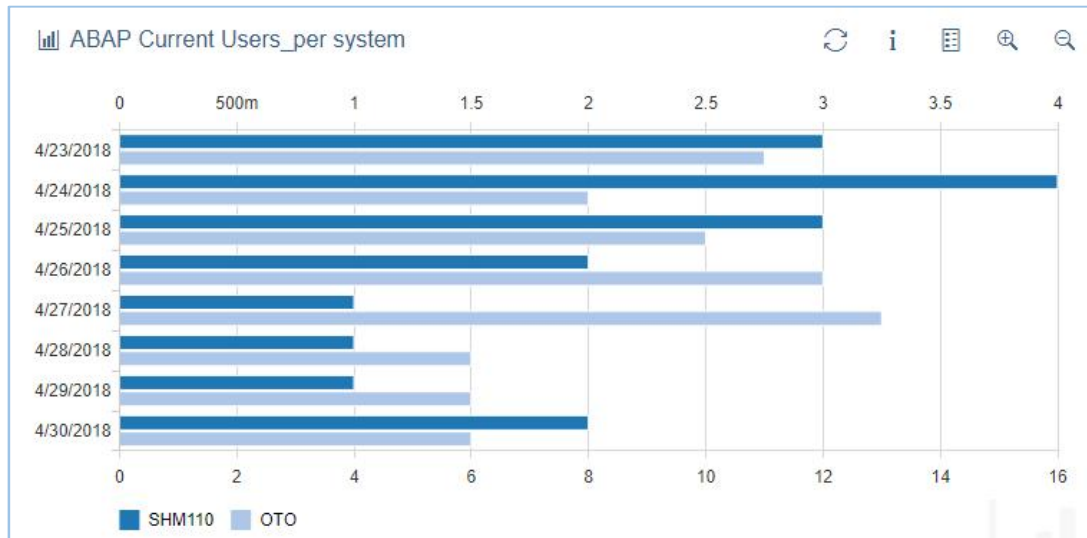


Figure 196. Dual Bar Chart

## 6.8 Dual Line

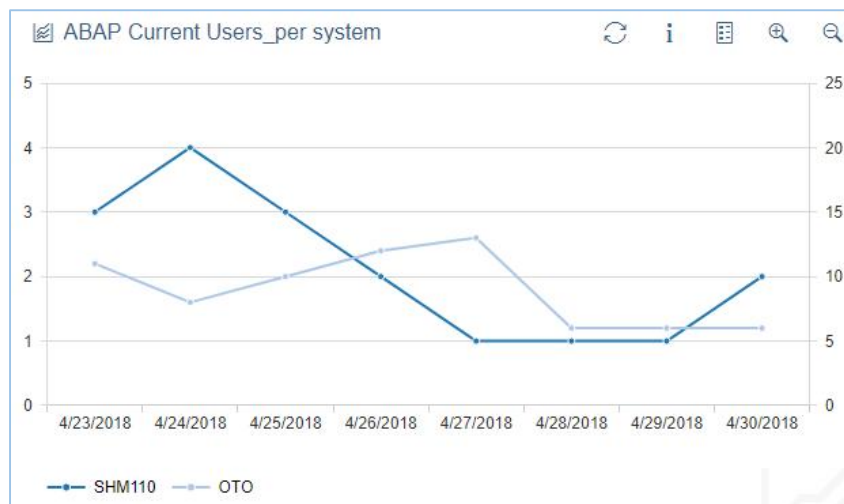


Figure 197. Dual Line Chart

## 6.9 Dual Line-column



Figure 198. Dual Line-column

## 6.10 Alert Table

SHD110					
System	Avail	Config	Error	Perf	Alerts
SHD110	✓	ⓘ	🔥	🔥	18 Alerts

Figure 199. Alert Table renderer

## 6.11 Dynamic Table

Here is an example for the use of Dynamic Table renderer, we will describe also in this section the utility of "Display Attributes" and "Filter Values" properties.

- Prepare a saved search on the CRM, Go to the Transaction CRM\_UI

Search: Incidents

Search Criteria

Hide Search Fields

Transaction Type

is

Defect (S1DM)

Time Frame

is

Last month

Maximum Number of Results:

100

Search

Clear

Save Search As:

defects

Include View

Save

Result List: 27 Incidents Found

New

New from Template

Create Follow-Up

Refresh

Filter:

ID

Ranking

Descript...

Priority

User St...

Posting ...

Message...

Support...

Category

IRT Usage

IRT Status

IRT Text

MPT Us...

MPT St...

MPT Text

Change...

Transac...

800000...

0

Test 005

3: Medi...

New

09.04.2...

0%

0%

09.04.2...

Defect

800000...

0

Dumm...

3: Medi...

New

12.04.2...

0%

0%

12.04.2...

Defect

800000...

0

Dumm...

3: Medi...

New

12.04.2...

0%

0%

12.04.2...

Defect

800000...

0

Dumm...

3: Medi...

Confir...

12.04.2...

0%

0%

13.04.2...

Defect

Figure 200. Results in the CRM UI

- Display all the content of the saved search columns using a dynamic table renderer:

The generated query is:

Legend	Query
OFT	/STDF/DP_CRM:COLOR=#1f77b4 legend=defects OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true Saved_search=5CF3FCE8D2301EE88CA1D5130FA1E121 Filter=1 Backlog= Drilldown=

Defects <span>Grid</span> <span>Refresh</span> <span>Info</span>				
	GUID	PROCESS_TYPE	PROCESS_TYPE_TXT	OB
20	5CF3FCDCEC001EE88EF818302	S1DM	Defect	<a href="#">8000000928</a>
21	5CF3FCDCEC001EE88EB4F8A3	S1DM	Defect	<a href="#">8000000927</a>
22	5CF3FCDCEC001EE88EB44E62	S1DM	Defect	<a href="#">8000000926</a>
23	5CF3FCDCEC001EE88EB3F7B6	S1DM	Defect	<a href="#">8000000925</a>
24	5CF3FCDCEC001EE88EB3E043	S1DM	Defect	<a href="#">8000000923</a>
25	5CF3FCDCEC001EE88EAF3769	S1DM	Defect	<a href="#">8000000922</a>
26	5CF3FCDCEC001EE88EAF0766	S1DM	Defect	<a href="#">8000000921</a>
27	5CF3FCDCEC001EE88E8510657	S1DM	Defect	<a href="#">8000000909</a>

Figure 201. Detail view (Display all the table columns)

- In this example, we will keep the content of two columns only and we will rename them as follow:

<KEY1> > <Display\_name1>, <KEY2> > <Display\_name2>



Query Settings

Jump in: Default Line Chart Renderer Yellow Thresh...: Red Threshold: Color Rating: Trend: Trend Line: SLA: Display Value: Display Attribute: Guid>GUID CRM,PROCESS\_TYPE>Process Type Filter Values: Color Categories:

Figure 202. Use of Display Attribute property

The generated query is:

Legend	Query
OFT	/STDF/DP_CRM:COLOR=#1f77b4 legend=defects OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES=Guid>GUID CRM,PROCESS_TYPE>Process Type visible=true Saved_search=5CF3FCE8D2301EE88CA1D5130FA1E121 Filter=1 Backlog= Drilldown= display_value=false

	GUID CRM	PROCESS TYPE
20	5CF3FCDCEC001EE88EF818302	S1DM
21	5CF3FCDCEC001EE88EB4F8A3	S1DM
22	5CF3FCDCEC001EE88EB44E62	S1DM
23	5CF3FCDCEC001EE88EB3F7B6	S1DM
24	5CF3FCDCEC001EE88EB3E043	S1DM
25	5CF3FCDCEC001EE88EAF3769	S1DM
26	5CF3FCDCEC001EE88EAF0766	S1DM
27	5CF3FCDCEC001EE88E8510657	S1DM


Figure 203. Detail view (Select/Edit some columns titles)

Also using the Display attributes property, we can select/edit some columns titles and Keep the left attributes with the same behavior using this syntax <KEY1> > <Display\_name1>, <KEY2> > <Display\_name2>, \*

The Asterisk in column means that we will show all other columns in addition to those with changed names.

In a very similar way to the DISPLAY\_ATTRIBUTES, the FILTERS\_VALUES feature is used to select/Edit some rows.


FILTERS\_VALUES= <KEY1>: <Value1>, <Value2>& <KEY2> : <Value1>, <Value2>

1x1 Query Settings 

Content Properties Expert

Jump in: Default Line Chart Renderer Yellow Thresh...:

SLA: Trend: Red Threshold:

Display Value:  Trend Line: Color Rating:

Display Attribu...:

Filter Values: <Object>: <8000026353>, <8000026354>

Color Categories:

Figure 204. Use of Display Filter Values property

#### Sort Columns in the Dynamic Table Renderer:

1. Click on the Column Header in the Dynamic Table Renderer
2. A column menu entry for sorting will be displayed: there is two possibilities for sorting
  - a. Sort Ascending
  - b. Sort Descending

	ALERT_NAME		ALERT_LINK
345	Sort Ascending	illable	/sap/bc/webdynpro/sap/diag app starter?APP ID=TECHMON ALERT INBOX&MO ID=FA163E15E1BA1EE8A0EB4C8F725E7419&MO TYPE=T SYSTEM&CATEGORY=&ALTY ID=0050568E
59	Sort Descending		/sap/bc/webdynpro/sap/diag app starter?APP ID=TECHMON ALERT INBOX&MO ID=FA163E15E1BA1EE8A0EB4C8F725E7419&MO TYPE=T SYSTEM&CATEGORY=&ALTY ID=0050568A
125	Batch Job Errors		/sap/bc/webdynpro/sap/diag app starter?APP ID=TECHMON ALERT INBOX&MO ID=FA163E15E1BA1EE8A0EB4C8F725E7419&MO TYPE=T SYSTEM&CATEGORY=&ALTY ID=0050568A
173	Batch Job Errors		/sap/bc/webdynpro/sap/diag app starter?APP ID=TECHMON ALERT INBOX&MO ID=FA163E15E1BA1EE8A0EB4C8F725E7419&MO TYPE=T SYSTEM&CATEGORY=&ALTY ID=0050568A
175	Batch Job Errors		/sap/bc/webdynpro/sap/diag app starter?APP ID=TECHMON ALERT INBOX&MO ID=FA163E15E1BA1EE8A0EB4C8F725E7419&MO TYPE=T SYSTEM&CATEGORY=&ALTY ID=0050568A
187	Batch Job Errors		/sap/bc/webdynpro/sap/diag app starter?APP ID=TECHMON ALERT INBOX&MO ID=FA163E15E1BA1EE8A0EB4C8F725E7419&MO TYPE=T SYSTEM&CATEGORY=&ALTY ID=0050568A
246	Batch Job Errors		/sap/bc/webdynpro/sap/diag app starter?APP ID=TECHMON ALERT INBOX&MO ID=FA163E15E1BA1EE8A0EB4C8F725E7419&MO TYPE=T SYSTEM&CATEGORY=&ALTY ID=0050568A
305	Batch Job Errors		/sap/bc/webdynpro/sap/diag app starter?APP ID=TECHMON ALERT INBOX&MO ID=FA163E15E1BA1EE8A0EB4C8F725E7419&MO TYPE=T SYSTEM&CATEGORY=&ALTY ID=0050568A
358	Batch Job Errors		/sap/bc/webdynpro/sap/diag app starter?APP ID=TECHMON ALERT INBOX&MO ID=FA163E15E1BA1EE8A0EB4C8F725E7419&MO TYPE=T SYSTEM&CATEGORY=&ALTY ID=0050568A
7	Errors in ABAP System Log		/sap/bc/webdynpro/sap/diag app starter?APP ID=TECHMON ALERT INBOX&MO ID=FA163E15E1BA1EE8A0EB4C8F725DB419&MO TYPE=INSTANCE&CATEGORY=&ALTY ID=80E0ED0E
16	Errors in ABAP System Log		/sap/bc/webdynpro/sap/diag app starter?APP ID=TECHMON ALERT INBOX&MO ID=FA163E15E1BA1EE8A0EB4C8F725DB419&MO TYPE=INSTANCE&CATEGORY=&ALTY ID=80E0ED0E
29	Errors in ABAP System Log		/sap/bc/webdynpro/sap/diag app starter?APP ID=TECHMON ALERT INBOX&MO ID=FA163E15E1BA1EE8A0EB4C8F725DB419&MO TYPE=INSTANCE&CATEGORY=&ALTY ID=80E0ED0E
36	Errors in ABAP System Log		/sap/bc/webdynpro/sap/diag app starter?APP ID=TECHMON ALERT INBOX&MO ID=FA163E15E1BA1EE8A0EB4C8F725DB419&MO TYPE=INSTANCE&CATEGORY=&ALTY ID=80E0ED0E
62	Errors in ABAP System Log		/sap/bc/webdynpro/sap/diag app starter?APP ID=TECHMON ALERT INBOX&MO ID=FA163E15E1BA1EE8A0EB4C8F725DB419&MO TYPE=INSTANCE&CATEGORY=&ALTY ID=80E0ED0E
72	Errors in ABAP System Log		/sap/bc/webdynpro/sap/diag app starter?APP ID=TECHMON ALERT INBOX&MO ID=FA163E15E1BA1EE8A0EB4C8F725DB419&MO TYPE=INSTANCE&CATEGORY=&ALTY ID=80E0ED0E

Figure 205. Figure 1 Sort Dynamic Table Renderer

## 6.12 SLR table renderer

Solution Availability		i
System Availability CRM	100.00	
System Availability S4H	100.00	
System Availability Portal	100.00	
Availability Alerts raised	37	
Portal Average Response Time	3450	
Number of Jobs cancelled	350	

Figure 206. SLR Table Renderer

## 6.13 SLR Renderer

This Renderer display a Rating (Green, Warning or Red) for each query defined in the Gadget.

The rating is based on:

1. Target Thresholds for the SLA.
2. Period, Resolution for the SLA.
3. Color Rating.

★\$

Gadget Settings

General

Time Range

Data

Title:

SLR renderer

Description:

Renderer:

SLR\_RENDERER

Figure 207. SLR renderer

The SLR\_Renderer uses ANY Queries defined in the Gadget and compute the SLA Rating based on the following values:

4. Thresholds are taken from the Query String (G2Y and Y2R) or the Gadget configuration: If there is no Thresholds, the Rating will be Green.
5. Period for the Rating is taken from the gadget period.
  - o If the Data Provider is of type DP\_DF\_KPI, the following parameters can be used: Period, Resolution
6. Rating is either High Is Good or Low is good depending on the G2Y and Y2R values.

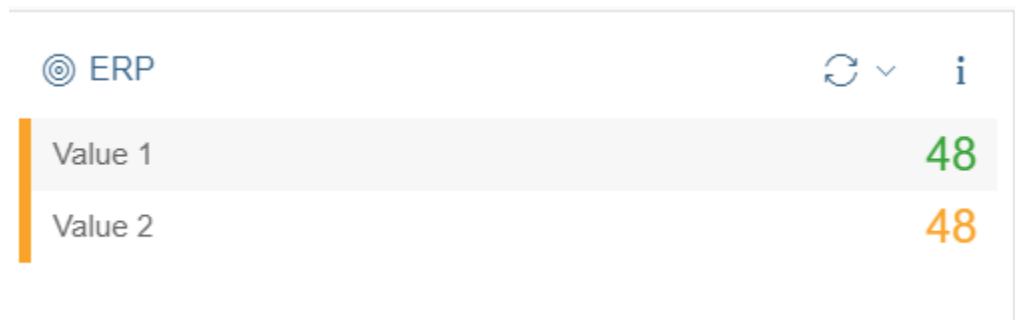


Figure 208. SLR renderer thresholds

## 6.14 Stack Bar Chart

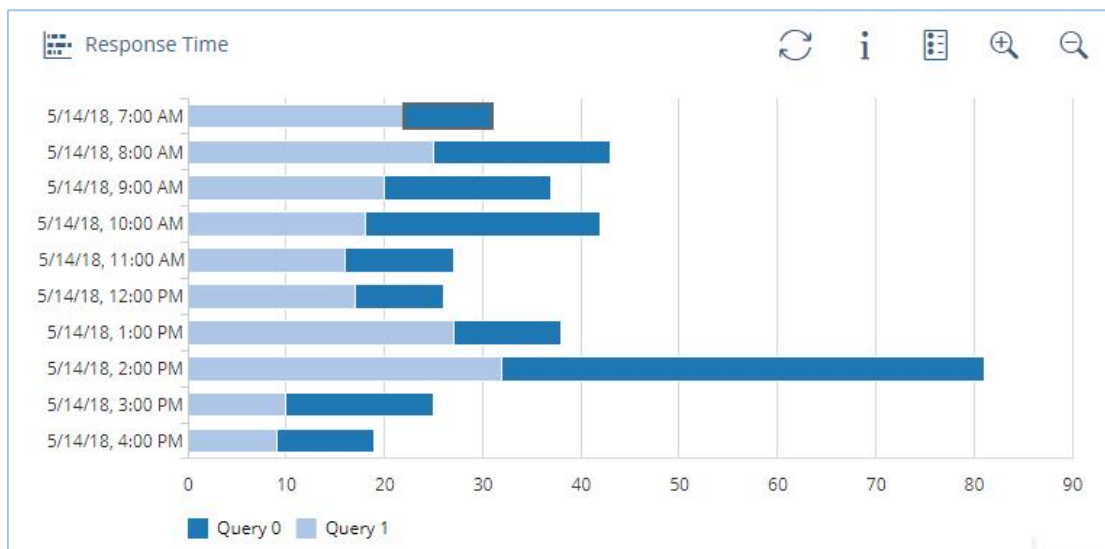


Figure 209. Stack Bar Chart

## 6.15 Stack Column Chart

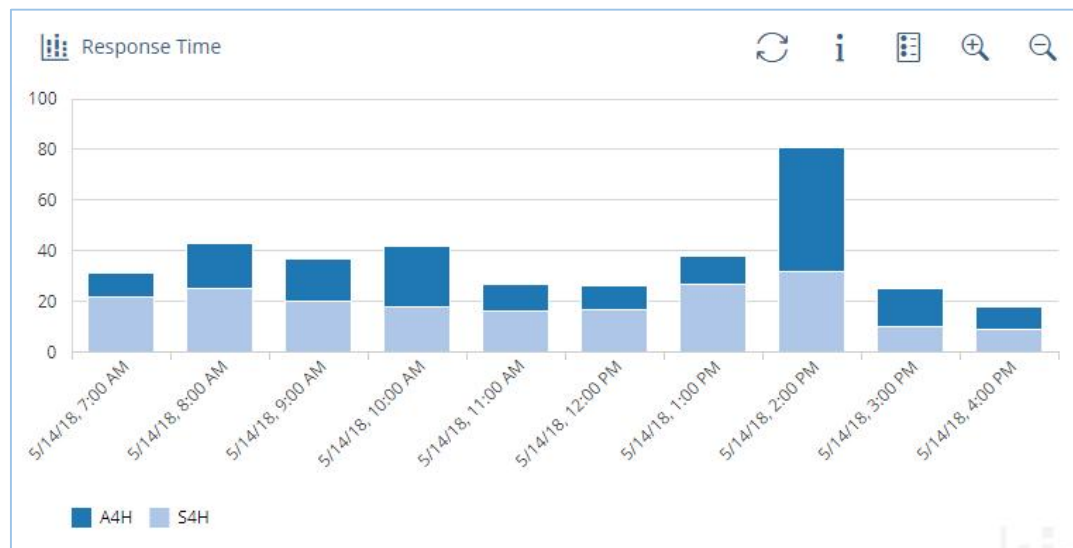


Figure 210. Stack Column Chart

## 6.16 Stack\_Column\_Chart\_2Label

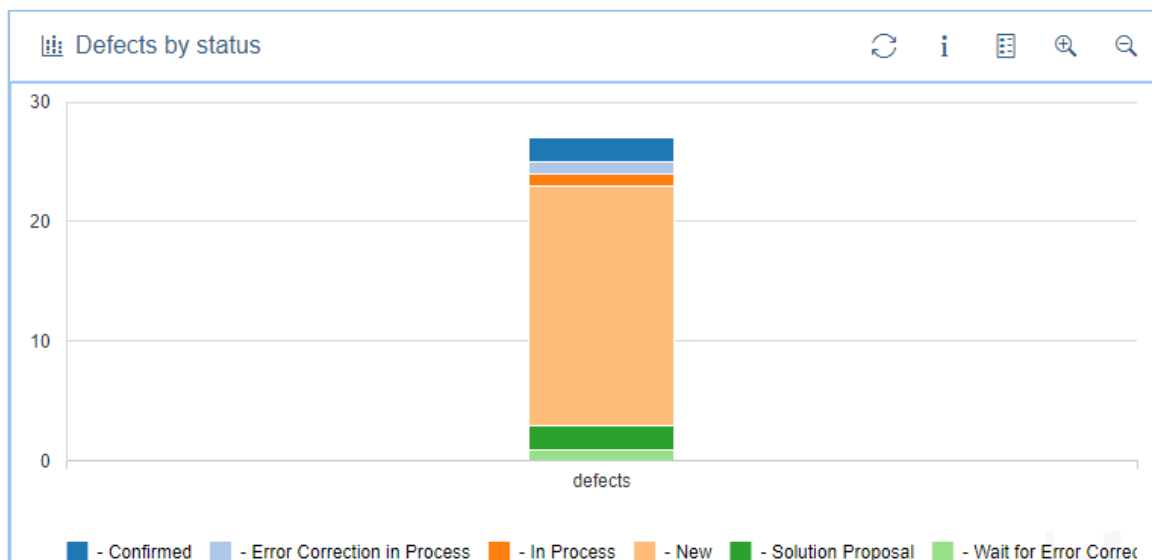


Figure 211. Stack\_Column\_Chart\_2Label

Here is an example for the Stack\_Column\_Chart\_2Label renderer "OCC\_JUMP\_IN":

- Prepare a saved search on the CRM, Go to the Transaction CRM\_UI

We should add the number of the gadget which we want to jump to in the query: |OCC\_JUMP\_IN=207-2027

The generated query is:

Legend	Query
defects /	/STDF/DP_CRM:COLOR=#1f77b4 legend=defects / OCC_JUMP_IN=207-2027 SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true Saved_search=5CF3FCE8D2301EE88CA1D5130FA1E121 Filter= Backlog= Drilldown=CONCATSTATUSER display_value=false

Query Settings

Content Properties Expert

/STDF/DP\_CRM:COLOR=#1f77b4|legend=defects |OCC\_JUMP\_IN=207-2027|SLA=|TREND=|G2Y=|Y2R=|COLOR\_RATING=|DISPLAY\_ATTRIBUTES=|visible=true|Saved\_search=5CF3FCE8D2301EE88CA1D5130FA1E121|Filter=|Backlog=|Drilldown=CONCATSTATUSER|display\_value=false

Figure 212. Configuration gadget

When clicking on the column, a new window is displayed:

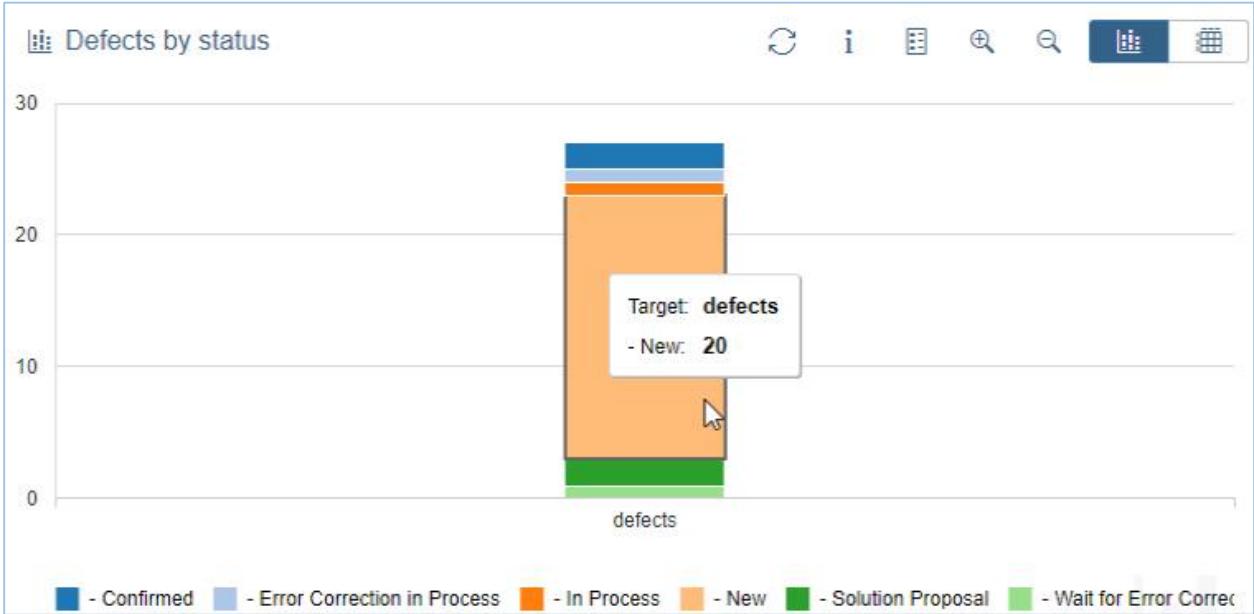


Figure 213. Detail View (1)

Here is the displayed window:

My New Dashboard							
My New Dashboard Defects							
Last Month		Auto					
	GUID	PROCESS_TYPE	PROCESS_TYPE_TXT	OBJECT_ID	OBJECT_TYPE	VALID_FROM	VALID_TO
1	5CF3FCDCEC001EE892AD3AEF	S1DM	Defect	8000001044	BUS2000223	00000000	00000000
2	5CF3FCDCEC001EE892AB41A7	S1DM	Defect	8000001043	BUS2000223	00000000	00000000
3	5CF3FCDCEC001EE892AB06FF	S1DM	Defect	8000001042	BUS2000223	00000000	00000000
4	5CF3FCDCEC001ED892AA756B	S1DM	Defect	8000001041	BUS2000223	00000000	00000000
5	5CF3FCDCEC001ED892AA258B	S1DM	Defect	8000001040	BUS2000223	00000000	00000000
6	5CF3FCDCEC001ED892A9FBE6	S1DM	Defect	8000001039	BUS2000223	00000000	00000000
7	5CF3FCDCEC001ED892A632BF	S1DM	Defect	8000001038	BUS2000223	00000000	00000000
8	5CF3FCDCEC001EE892910C9E	S1DM	Defect	8000001035	BUS2000223	00000000	00000000
9	5CF3FCDCEC001EE8918565A4	S1DM	Defect	8000001031	BUS2000223	00000000	00000000
10	5CF3FCDCEC001ED890FC5924	S1DM	Defect	8000001023	BUS2000223	00000000	00000000

Figure 214. Detail View (2)

## 6.17 Table History renderer

Early Watch Alert						
	2018-15	2018-16	2018-17	2018-18	2018-19	2018-20
Service Preparation						
Software Configuration						
Workload Overview						

Figure 215. Table History renderer

## 6.18 Trend Table Renderer

Early Watch Alert							
	Trend	Week: 15	Week: 16	Week: 17	Week: 18	Week: 19	Week: 20
Service Preparation	↗ ✓						
Software Configuration	↗ ✓						
Workload Overview	↗ ✓						

Figure 216. Trend Table Renderer

## 6.19 Waterfall Chart

This renderer is used only with the data provider DP\_Build.

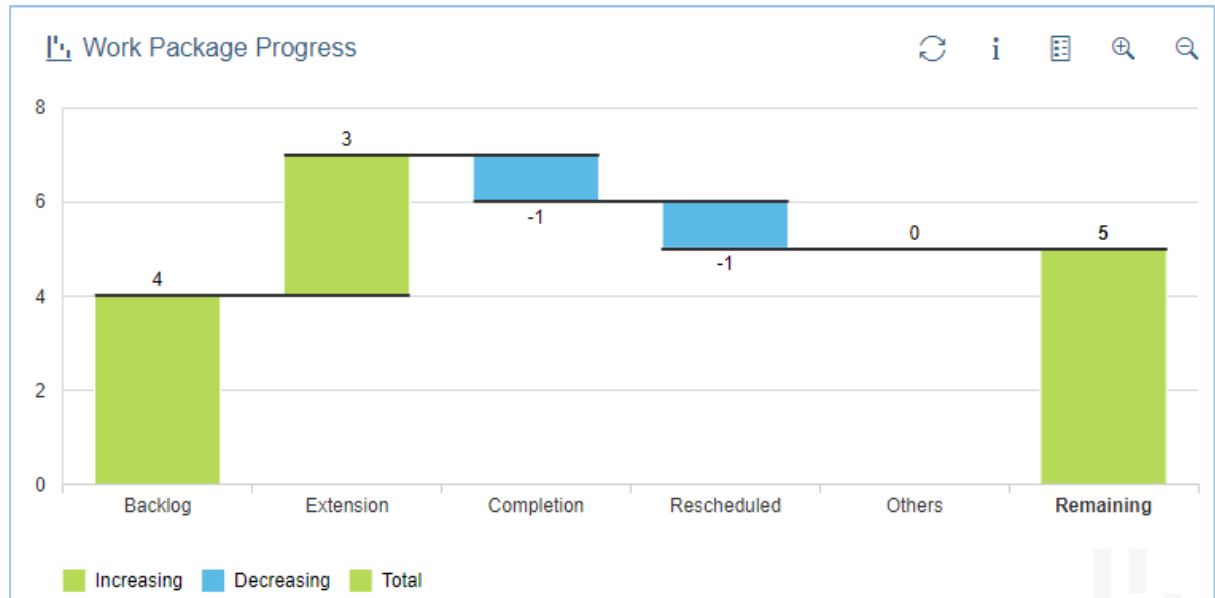


Figure 217. Waterfall renderer

## 6.20 HTML renderer

### Capabilities:

- Display Tiles and Text/HTML
- **Available for all DPs:** A new Option Group is added for all DPs allowing the selection of the HTML Content to be displayed

**Options:** The user can select one of the 3 options below:

- **HTML:** The gadget will consider to display only the HTML content. The content could contain **link** to images or a **base 64** images.
- **Tile:** The gadget will consider to display only tiles. The tile will contain the SLR\_RENDERER Value according to the specified SLA. It supports also the color rating.
- **HTML and Tile:** The gadget will display Tiles on the top of the HTML Content (**Default**)

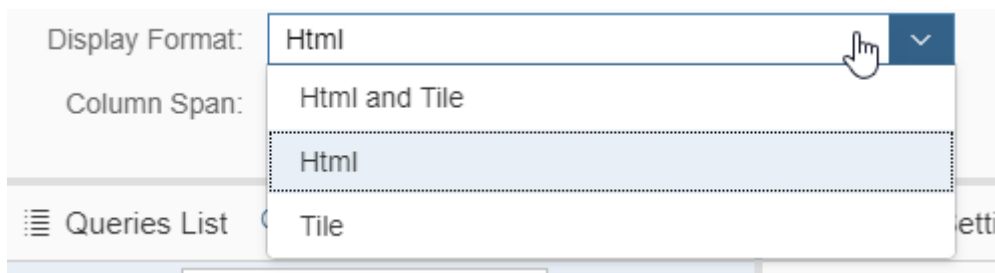
### Usage:

1. Select The HTML\_RENDERER

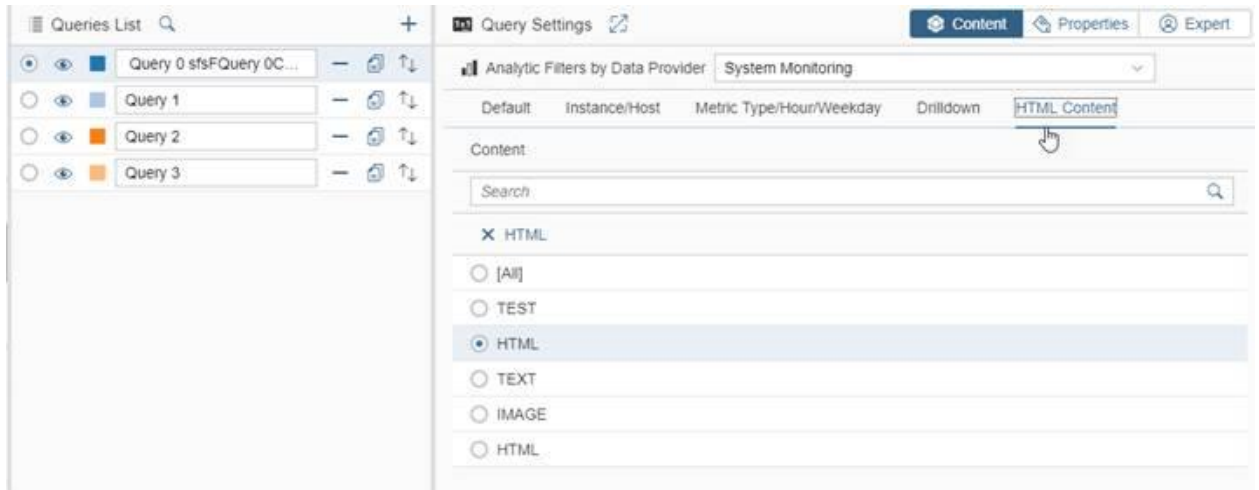
Renderer:

2. Select the display Format (Tile, HTML or HTML and Tile)





3. Select the content from the Option Group "HTML Content"



## 6.21 Renderers Usage

The renderers are used to display data providers 'data.

We can group the chart into categories:

- **Trend Chart Single scale:**
  - Line Chart
  - Pie Chart
  - Donut Chart
  - Line-Column Chart
- **Trend Chart Double scale:**
  - Dual Line Chart
  - Dual Line-Column
  - Dual Bar-Column
- **Distribution Stack:**
  - Stack Bar Chart
  - Stack Column Chart
  - Stack Column Chart2Label
- **Comparison:**
  - Waterfall Chart
  - Column Chart
  - Bar Chart
- **Trend Table:**
  - Table History Renderer

- Trend Table Renderer
- **Table:**
  - Dynamic Table
- **Alerts Tree:**
  - Alert Table
- **Compliance:**
  - SLR Renderer
  - SLR Table Renderer

The following table is showing mapping Data Providers to Renderers 'categories':

Renderers \ Categories	Trend Chart Single scale	Trend Chart Double scale	Distribution Stack	Comparison	Trend Table	Table	Alerts Tree	Compliance
DP_SYSMON	x	x	x	x	x			x
DP_SYSMON_SNAPSHOT							x	
DP_EEM	x	x	x	x	x			x
DP_EEM_BI	x	x	x	x	x			x
DP_BPA_KPI	x	x	x	x	x	x		x
DP_BEX_QUERIES	x	x	x	x	x	x		x
DP_DF_TAC	x	x	x	x	x			x
DP_DVM	x	x	x	x	x			x
DP_MAI_ALERTING	x	x	x	x	x	x		x
DP_DF_KPI	x	x	x	x	x			x
DP_ITSM	x	x	x	x	x			x
DP_CCM	x	x	x	x	x	x		x
DP_CRM	x	x	x	x	x	x		x

DP_CALCULATION	x	x	x	x	x			x
DP_DCM	x	x	x	x	x	x		x
DP_ICM	x	x	x	x	x			x
DP_EWA	x	x	x	x	x	x		x
DP_BPO	x	x	x	x	x			x
DP_SOLDLOC	x	x	x	x	x	x		x
DP_BUILD	x	x	x	x	x	x		S
DP_SECURITY	x	x	x	x	x	x		x
DP_FRUN	x	x	x	x	x	x		x
DP_BPA	x	x	x	x	x			x
DP_TEST	x	x	x	x	x	x		x
DP_DF	x	x	x	x	x			x
DP_SQLSCRIPTS						x	x	
DP_BEX_VIEW	x	x	x	x	x	x	x	x
DP_TRANSACTION	x	x	x	x	x	x	x	x
DP_TABLE	x	x	x	x	x	x	x	x



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