

User Guide

PUBLIC

Focused Insights for SAP Solution Manager
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OCC Dashboard 7.2 User Guide

ST-OST 7.2 SP03

Typographic Conventions

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

Document History

Version	Date	Change
1.0	2016-11-28	Initial Version
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)

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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.

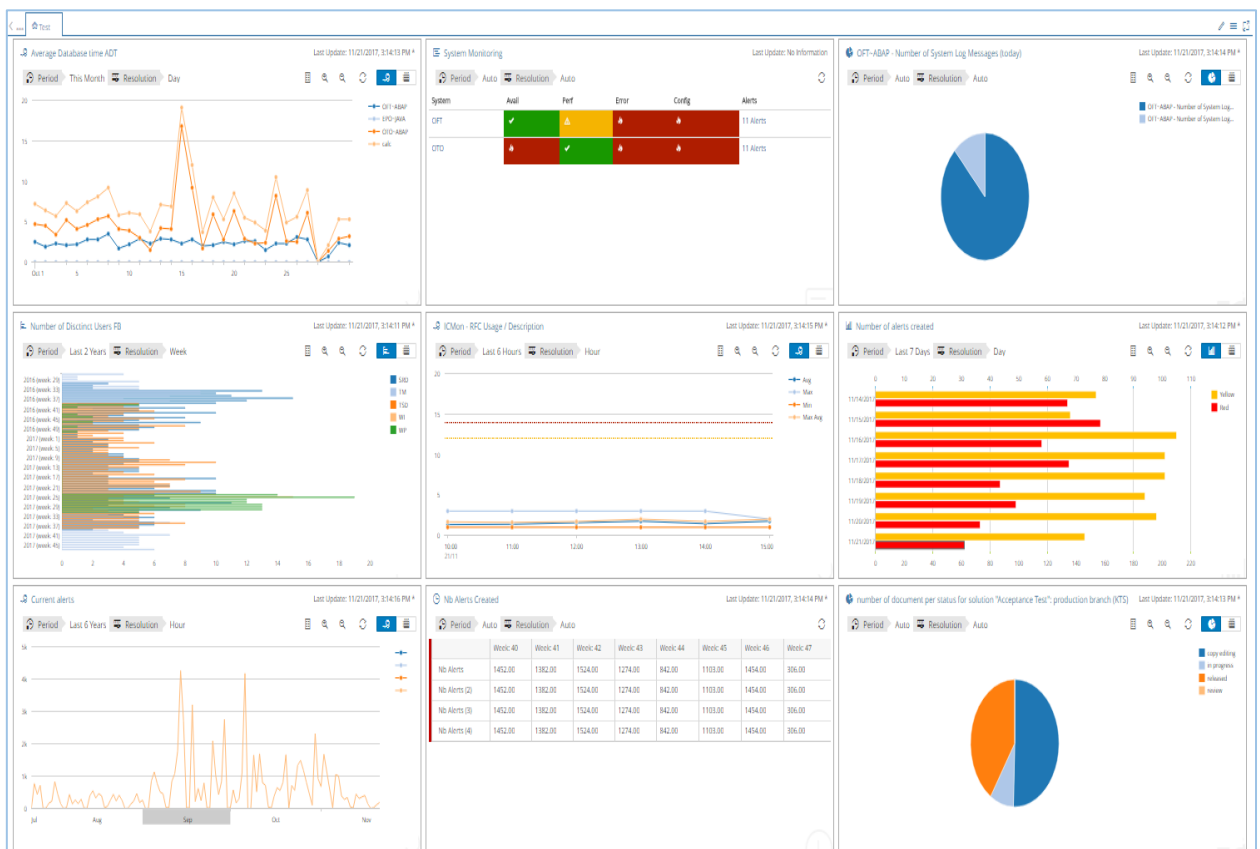


Figure 1: UI View

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>...)

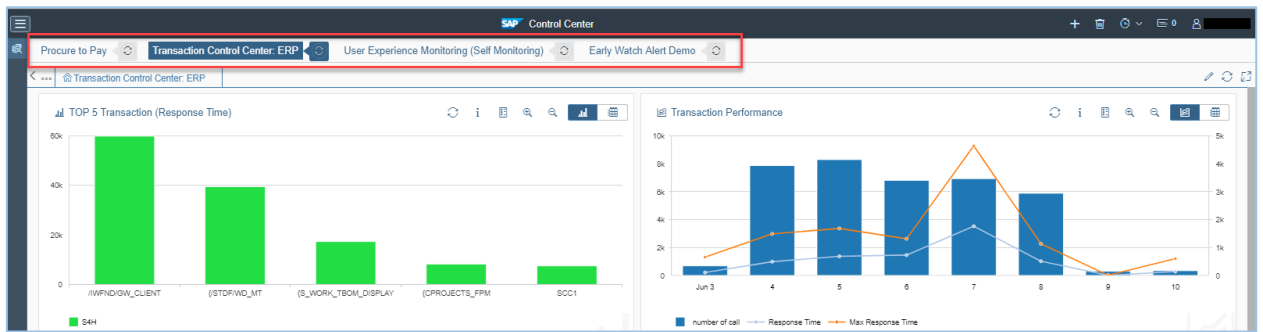


Figure 2: Instances View

i Note

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

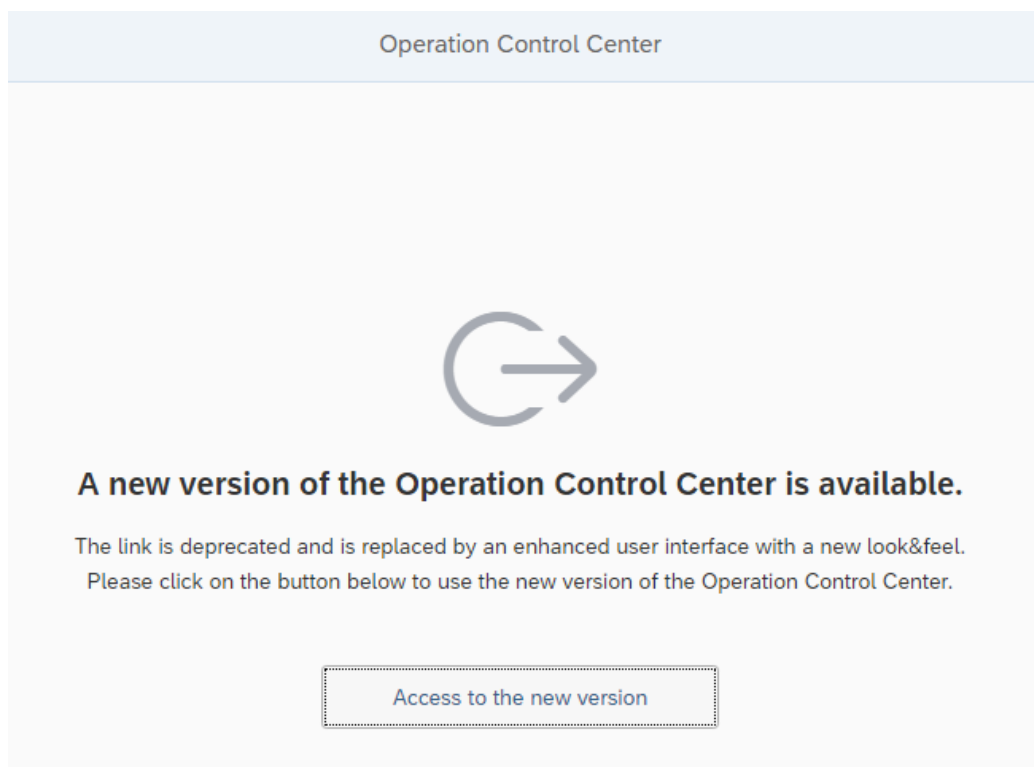


Figure 3: Redirection Page

2.2 Zooming in on a Gadget

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

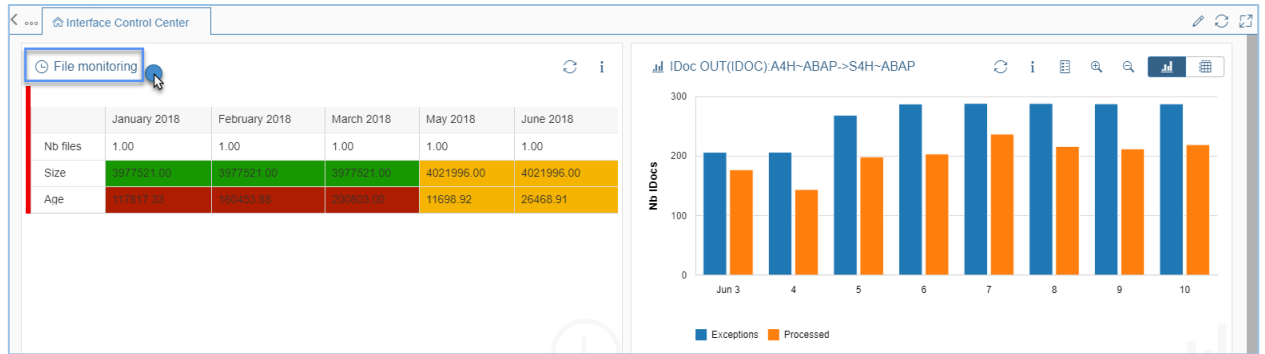


Figure 4: Zoom a gadget (1)

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

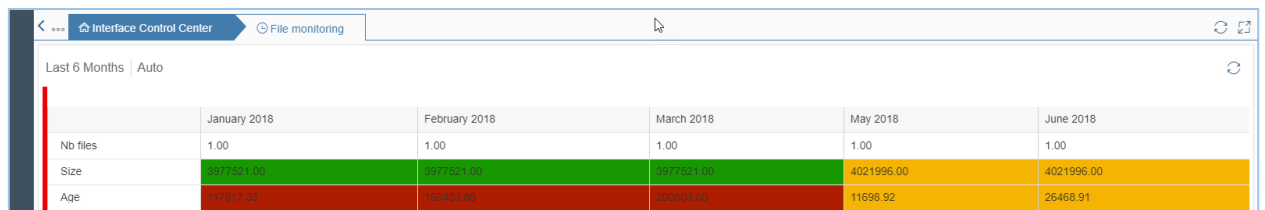


Figure 5: Zoom a gadget (2)

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.

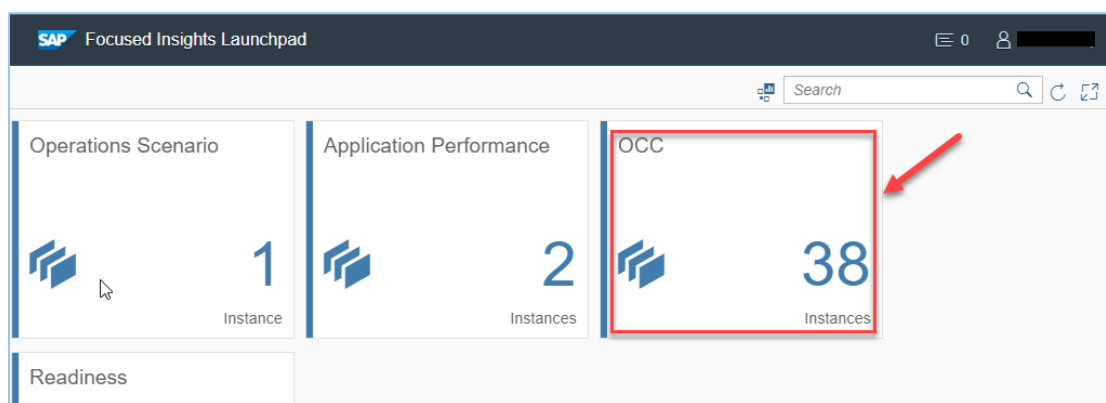


Figure 6: Select OCC Tile

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

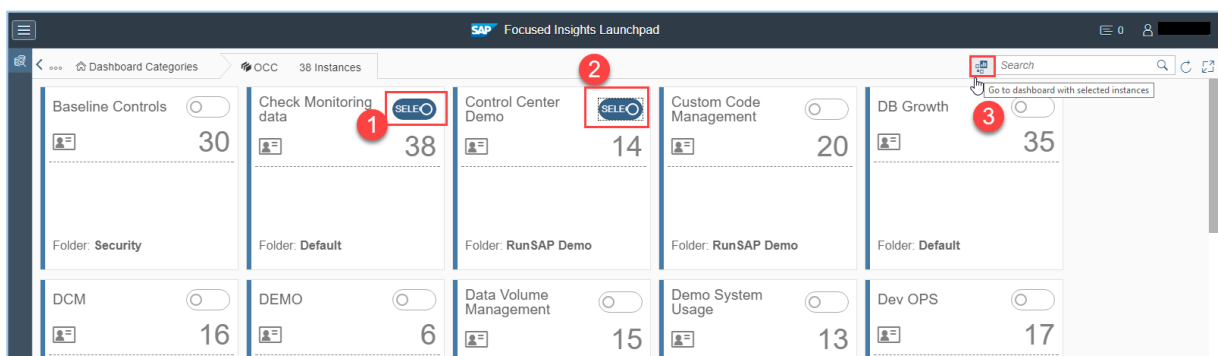


Figure 7: Select instances

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

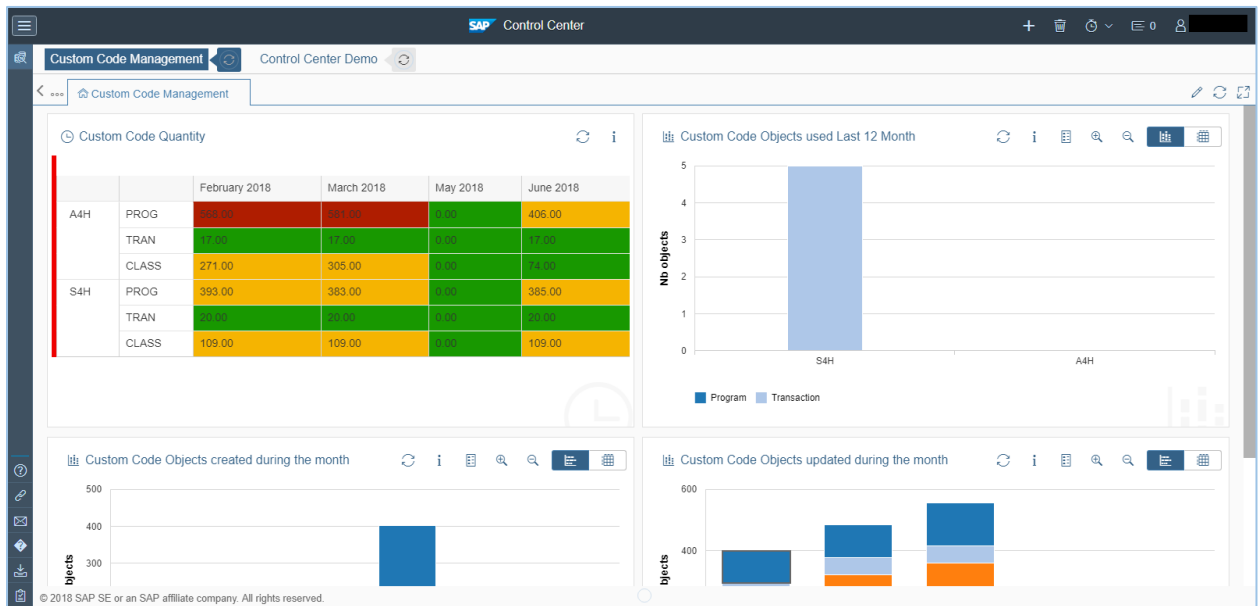


Figure 8: OCC Dashboard: Instances View

The dashboard is showing each instance in the instance selection header

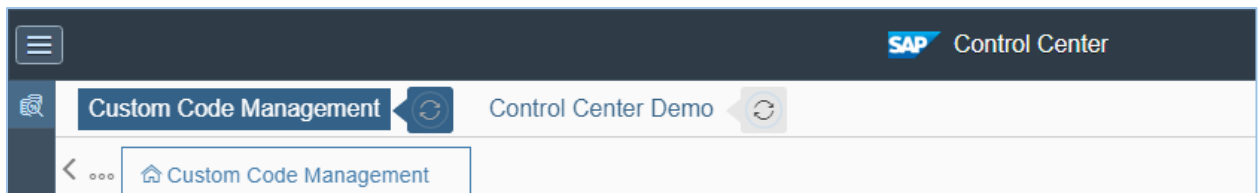


Figure 9: Instance Selection Header

You can switch between instances by clicking the title of the instance. Each instance is composed of several gadgets.

3.2 Dashboard Layout

When you enter the application, the loading screen, where all the initialization is happening, will be the first thing you see.

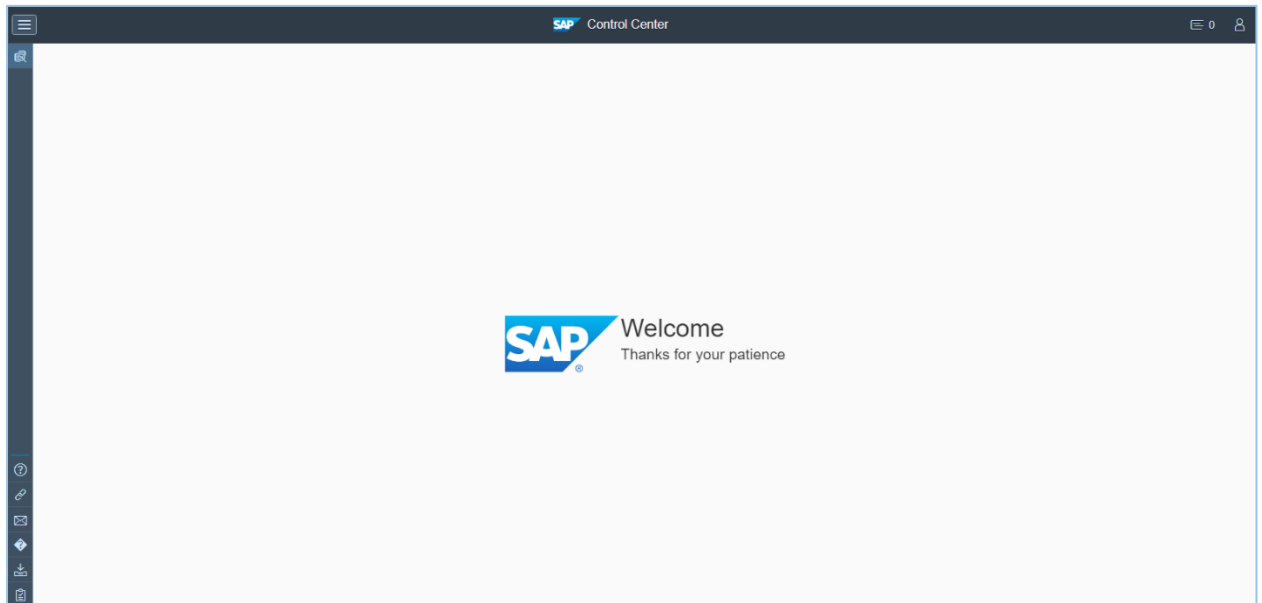


Figure 10: OCC Dashboard - Loading Screen

When no error is found in the initialization step, you will enter the dashboard based on the view that you have chosen.

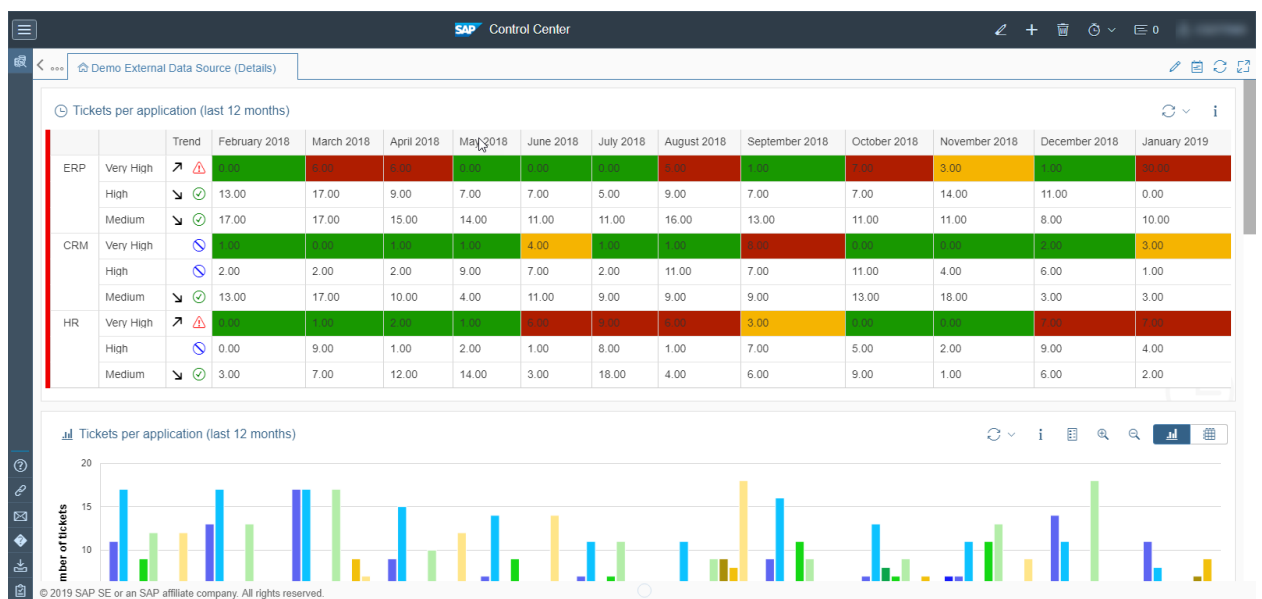


Figure 11: Dashboard Layout

3.3 TNT/ UOC Shell Header

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:

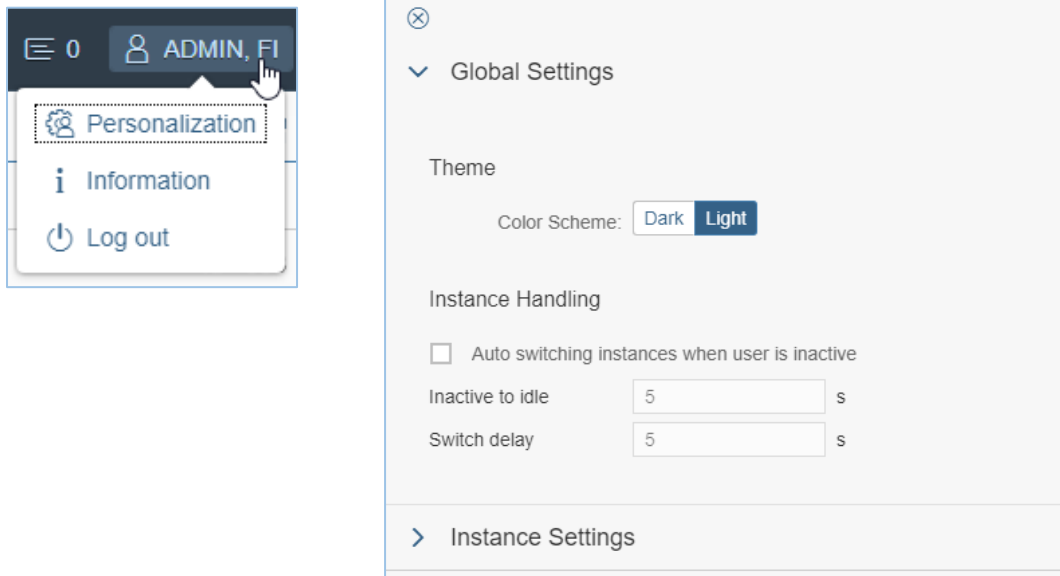


Figure 12: User Settings Dialog

- Global Settings:

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

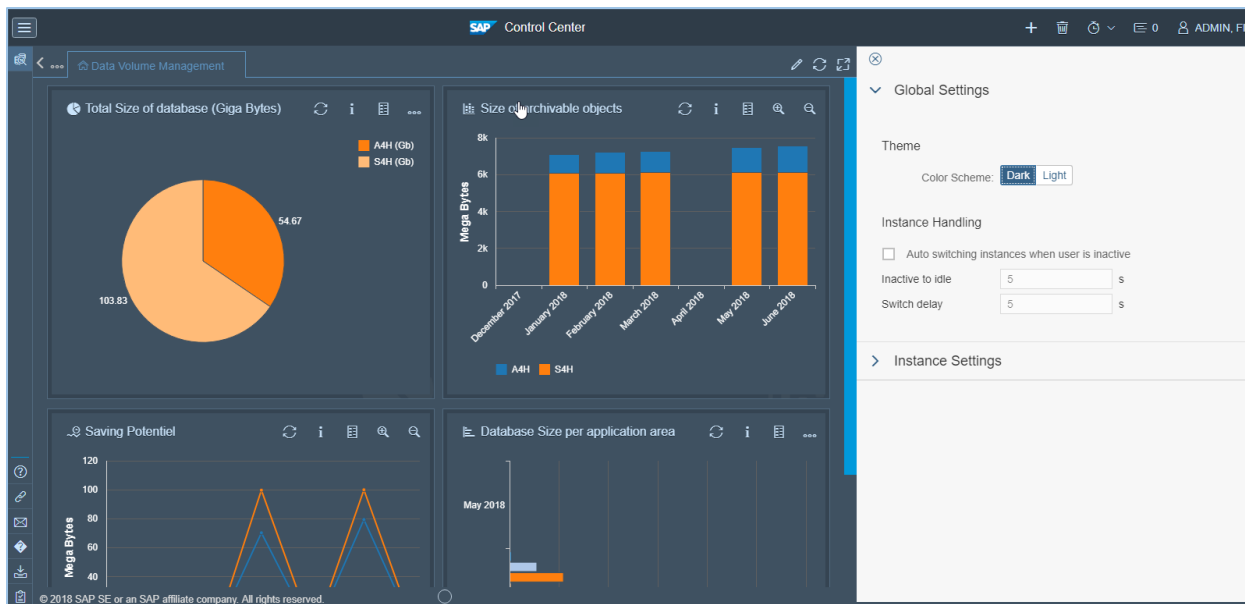


Figure 13: OCC Dashboard: Dark Theme

Remark:

You can add the parameter `&colorscheme=dark` to the OCC dashboard URL so the dark mode is chosen.

https://<solman_host>:<solman_port>/sap/bc/ui5_ui5/stdf/occ_dash/index.html?configId=<ID>&colorscheme=dark

The URL parameter `fullscreen=true` starts dashboard in full screen.

The URL parameter `autoSwitchOnIdle=true` starts 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
- The logoff button.

Note:

Settings are not persisted as of the time this document is created. It may change in the future where it will be persisted by user. Number of settings may different also in the future.

- Instance Settings:

This section contains the Refresh Timer of the selected instances. If you want to change the time for a specific instance, you need to select it, and go to instance Settings to change the timer.

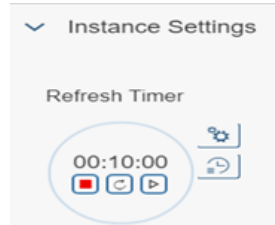


Figure 14: Refresh Timer

With the refresh timer, you can change the time by hover above the timer (on desktop) and click on the setting icon. And then you can input number of hours, minutes, and seconds that you want.

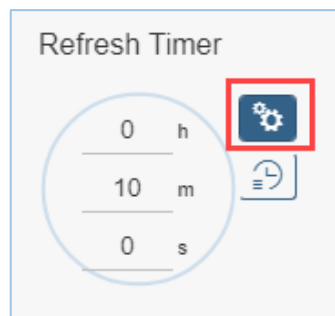


Figure 15: Refresh Timer Settings

Or you can choose the Preset Times already defined in the dashboard.

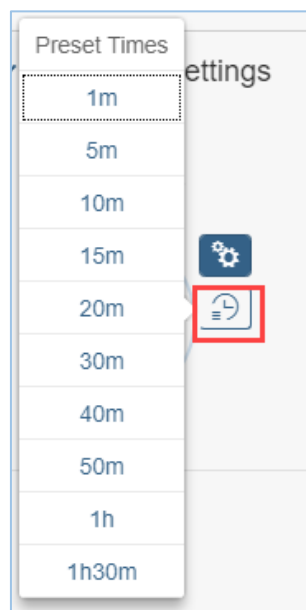


Figure 16: Preset Times

- 5- The button “Show Notifications” to hide or show notifications in the bottom of the page

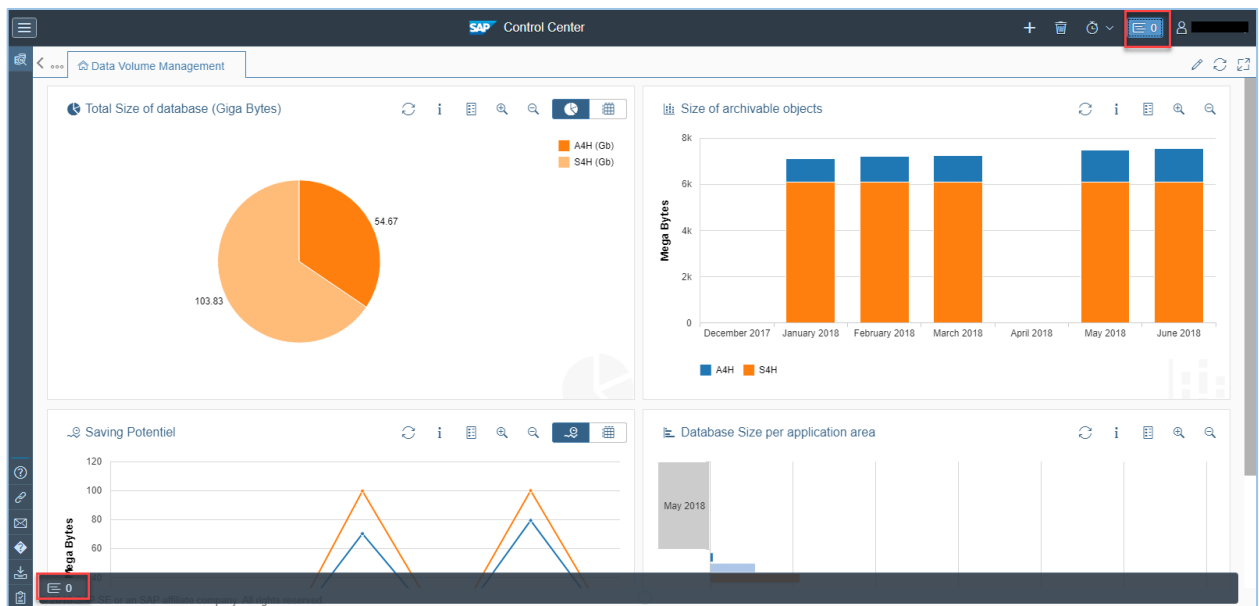


Figure 17: Notifications

- 6- 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

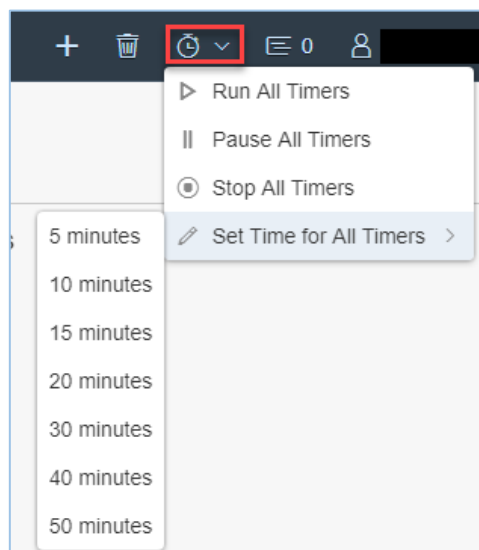


Figure 18: Instance Timers Controls

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.

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



Figure 19: Instance Administrative

3.4 Left Utilities Pane

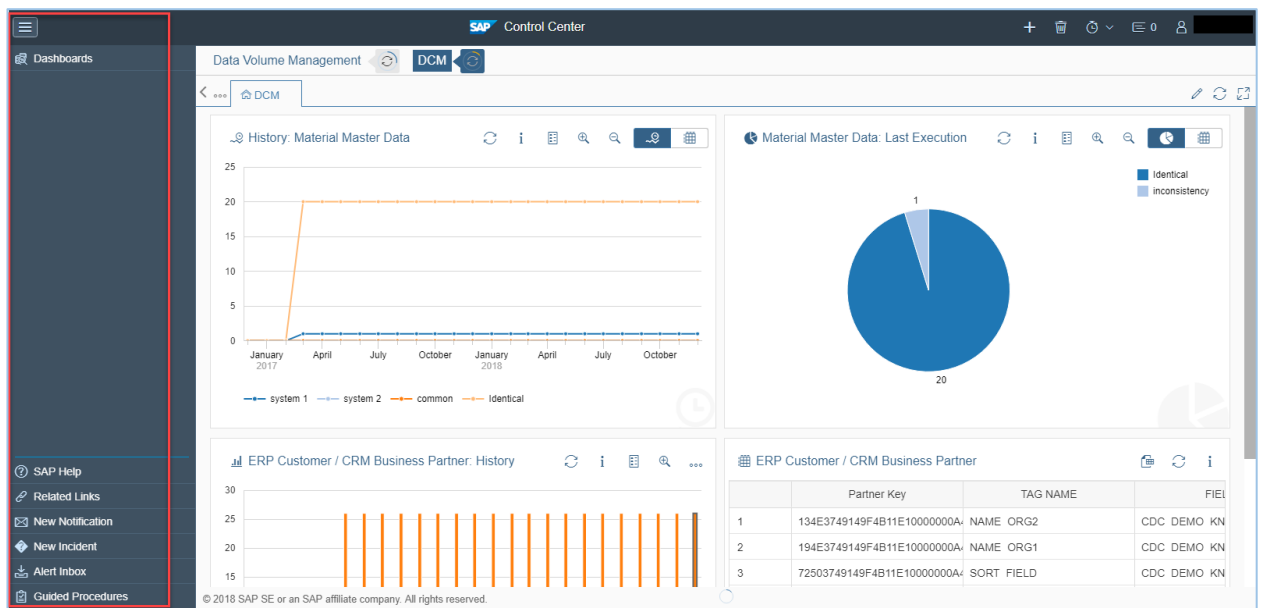


Figure 20: Left Utilities Pane

- 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.

Create Notification

To send notifications, your email-ID must be maintained in the User Maintenance screen

Notification Mode: ☐ E-Mail ☐ SMS

To:

Cc:

Bcc:

☐ E-Mail ☐ SMS

Subject: Confirmation Receipt:

Rich Text Editor:

Check Send Close

Figure 21: Create notification

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

Create Incident

Select incident type

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

Figure 22: Create Incident

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

The screenshot shows the 'Alert Inbox - System Alerts' interface. At the top, there's a header with 'Auto Refresh' set to 'Never' and a 'Refresh' button. Below this, a navigation bar lists various alert categories like 'Active Queries', 'Alert Inbox' (highlighted), 'Database Alerts', etc. The main area contains a table of alerts with columns: Alert Name, Category, Managed Object, Type, Ext. System ID, TS Type, Instance Description, Current, Priority, Worst, Sold-To Party, Total, Changes, Problem Analysis, and Status. The table lists several alerts, including 'ABAP System not available', 'Disabled Metrics', 'Database Recoverability', and 'ABAP Instance not available'. A 'Last Refresh' timestamp of '14.06.2018 13:40:04 CET' is shown at the bottom right.

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	Very high			10882	2		
Disabled Metrics		HDB000002	HDB				Very high	Very high			5003	8		
Disabled Metrics		HDB	HDB				Very high	Very high			5610	13		
Database Recoverability (log mode OVERWRITE)		HDB000001	HDB				Very high	Very high			17	1		
ABAP Instance not available		A4H-ABAP-vhcala4hsmci_A4H_00	A4H	ABAP		vhcala4hsmci_A4H_00	Very high	Very high			19512	3		

Figure 23: Alert Inbox

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

The screenshot shows the 'Guided Procedure list of All Application Areas' interface. It features a 'GPA Context' section with 'Type' set to 'Guided Procedure' and 'Application Area' set to '<All>'. Below this is a 'Help Text' section. The main area is a table of guided procedures with columns: Name, Description, Version, Last Executed By, Last Executed On, GP Plans, Active, Productive, and Hidden. The table lists various procedures like 'Track Projects', 'Prioritized Objects: Create New Analysis', 'Extra Solution Documentation Content Activations', etc. A 'Search' bar and several action buttons (Execute, Create, Edit, Delete, Display, Execution Logs, Mass Transport, Create Plan, Display All Plans, Refresh) are located above the table.

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		✓	✓	
Prioritized Objects: Create New Analysis	Create Decision Maker Analysis	2		00.00.0000 00.00.00		✓	✓	
Extra Solution Documentation Content Activations	Perform additional Solution Documentation Content Activation runs	6		00.00.0000 00.00.00		✓	✓	
OVERDUE_DELIVERIES	Outbound Deliveries overdue for GI	4	BPOP_CONFIG	26.03.2018 13.37.43		✓		
GP for Incomplete Sales Documents	GP for Incomplete Sales Orders	3		00.00.0000 00.00.00		✓		
Onboarding a new hire	Onboarding a new hire	1		00.00.0000 00.00.00		✓		
Handling Enqueue Alerts	Handling Enqueue Alerts	5		00.00.0000 00.00.00		✓	✓	
GP for Incomplete Sales Documents	GP for Incomplete Sales Orders	2		00.00.0000 00.00.00		✓		
HANA Alert 35: Check data backup exists	HANA Alert 03 Check inactive services	13		00.00.0000 00.00.00		✓	✓	

Figure 24: Guided Procedure

3.5 The Footer

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Figure 25: The footer

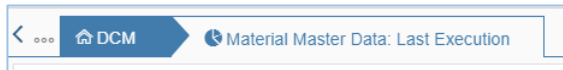
The footer contains the Copyright in the left area.

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

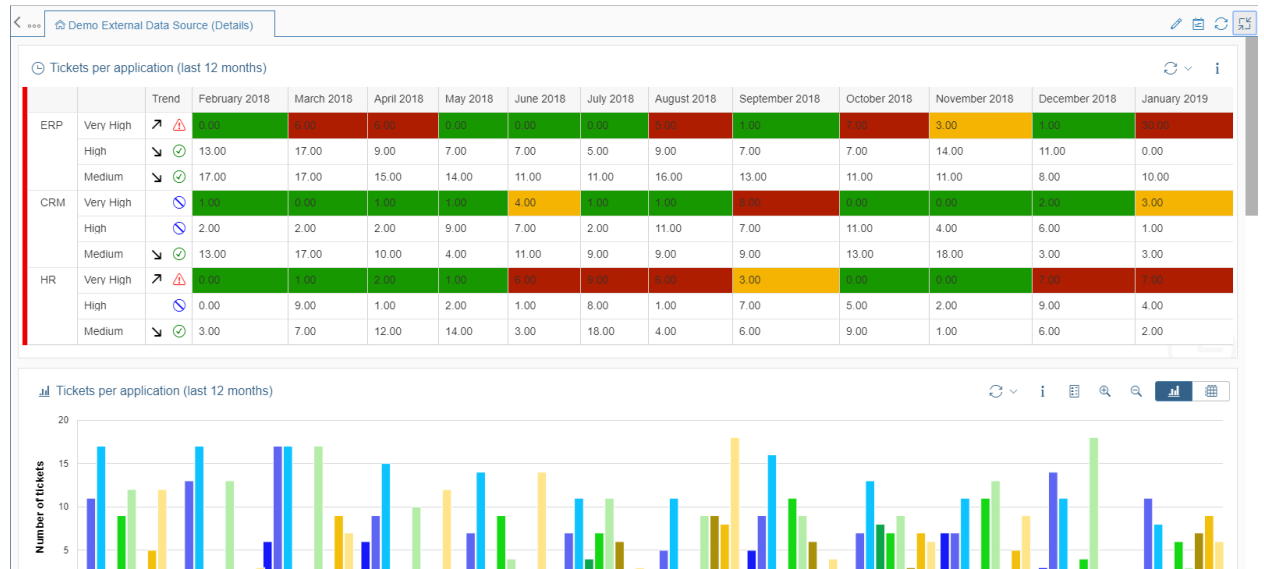


Figure 26: Content Area

3.7 Gadgets

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

Dashboard Settings Id - 209

Title:

Columns: Rows:

Time Range:

Period:

Resolution:

Figure 27: Set Dashboard's Global Time Range

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


Gadget Settings

Default Time Range Data

Period:

Resolution:

Figure 28: 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).

Set Dashboard's Global Time Range

Display Global Time Range
O X

Time Range

Period:

Last Week ▼

Resolution:

Day ▼

↻ Apply
⌵ Cancel

Figure 29: 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

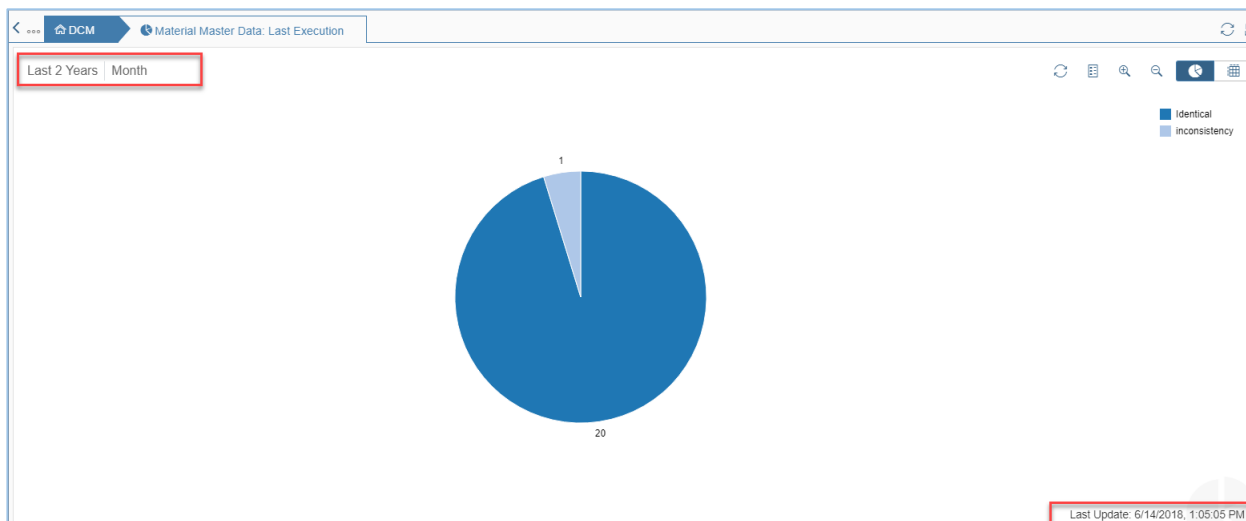


Figure 30: Gadget time frame

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).

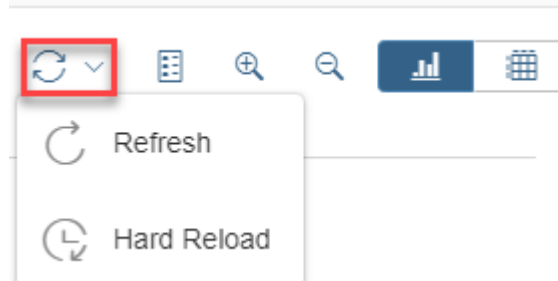


Figure 31: Refresh and Hard Reload buttons

4 Configuration

4.1 Creating a dashboard

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

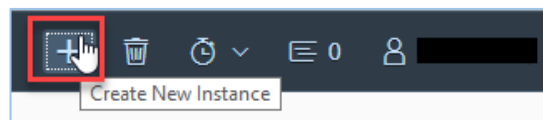


Figure 32: Create new instance

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)

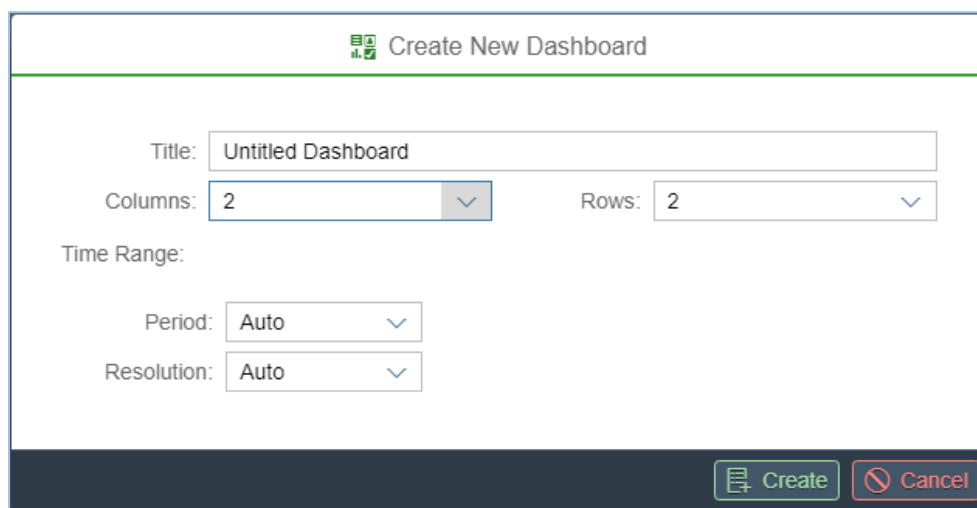
A screenshot of a "Create New Dashboard" popup window. The title bar at the top says "Create New Dashboard" with a green icon. The form contains several input fields: "Title" with the text "Untitled Dashboard", "Columns" with a dropdown menu showing "2", and "Rows" with a dropdown menu showing "2". Below these, under the heading "Time Range:", there are two more dropdown menus: "Period" and "Resolution", both showing "Auto". At the bottom right of the form, there are two buttons: a green "Create" button and a red "Cancel" button.

Figure 33: 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.

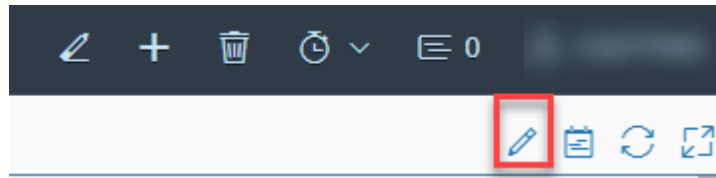


Figure 34: Dashboard Edit button

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:

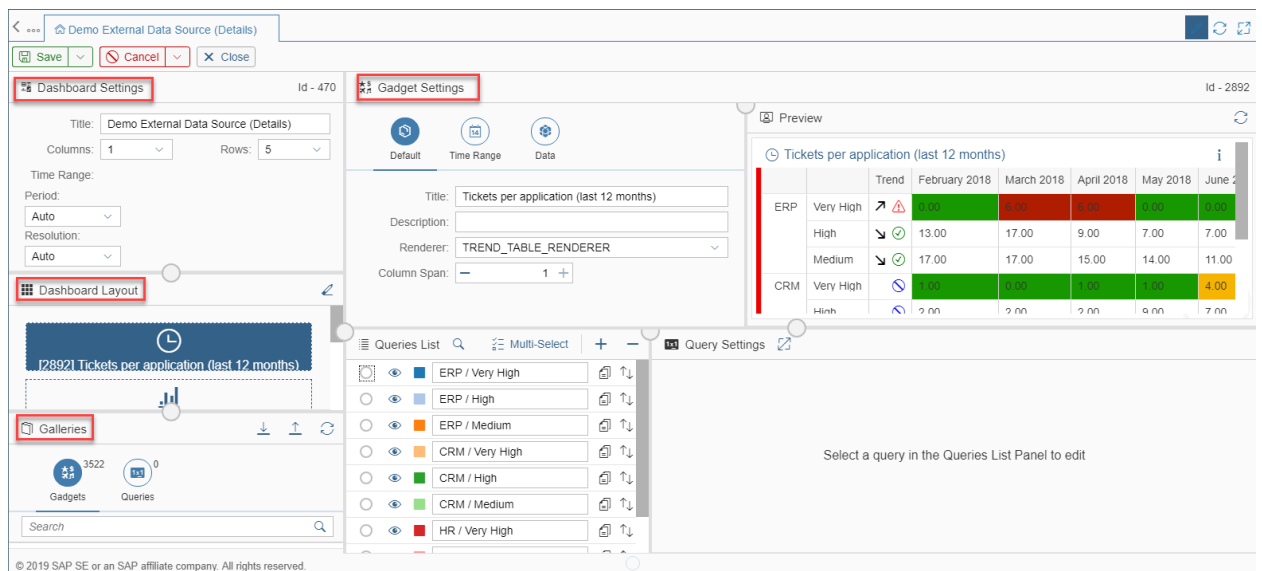


Figure 35: Dashboard Edit Mode

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)

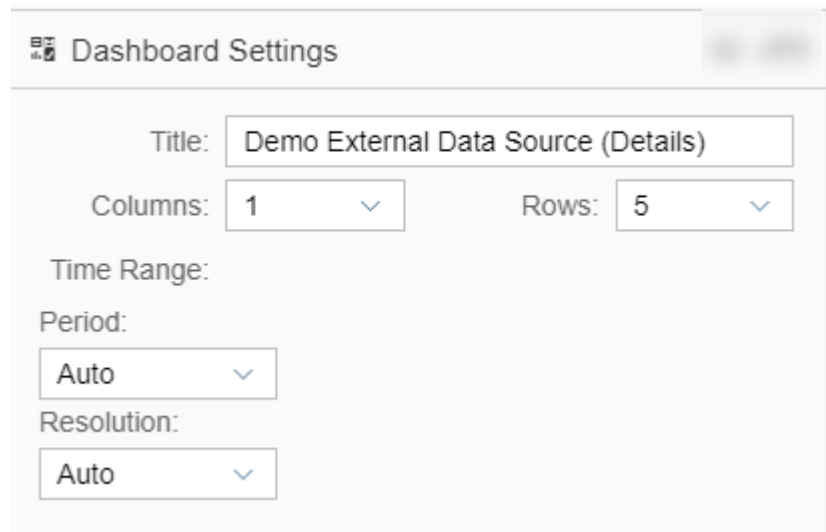


Figure 36: Dashboard Settings

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.

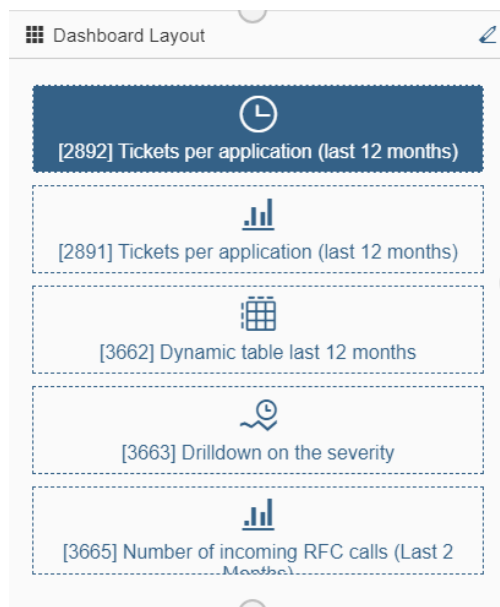



Figure 37: Dashboard Layout

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

From the section Galleries you can search for an existing gadget. You can then import or export the configuration to the selected gadget.

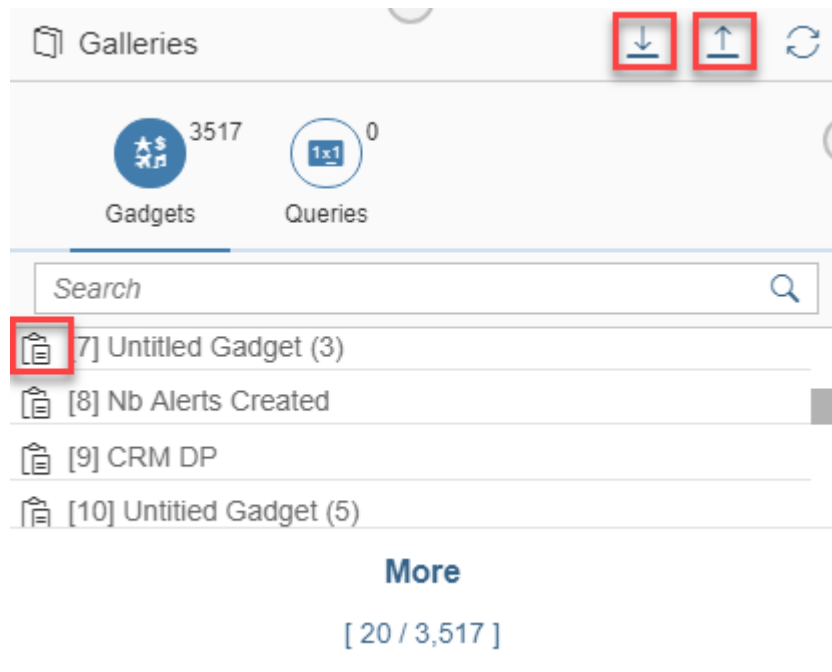


Figure 38: Galleries

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.

Confirm Paste Gadget

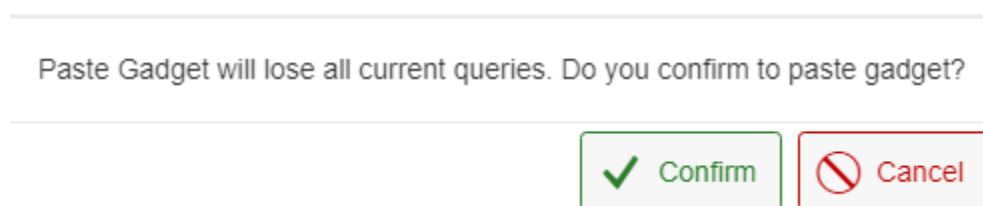


Figure 39: Confirm Paste Gadget Pop-up

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

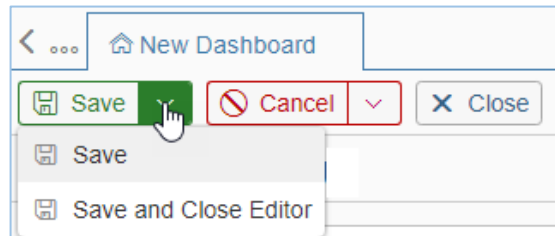


Figure 40: Edit Mode Bar

4.3 Deleting a dashboard

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

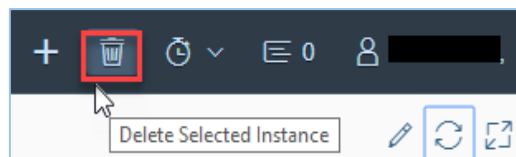


Figure 41: Deleting Dashboard

4.4

4.5 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.

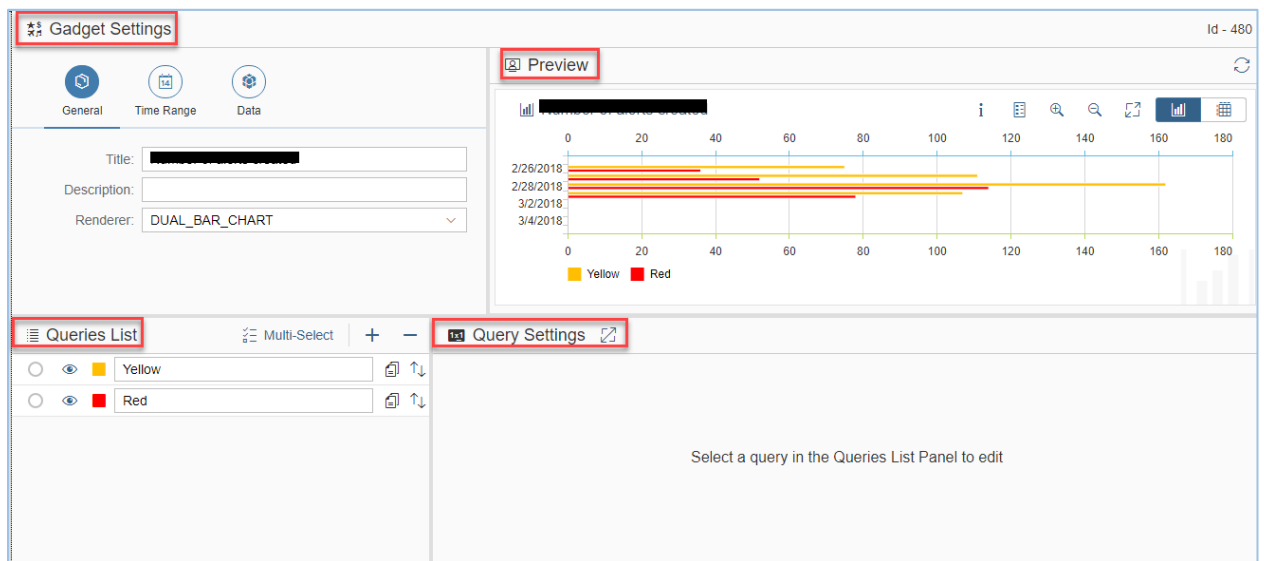


Figure 42: Gadget settings

➤ The gadget settings are composed of three tabs:

- General: You should edit the following fields: Title, Description, Renderer

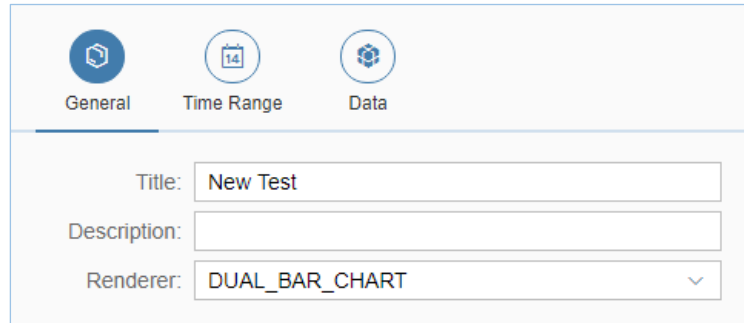
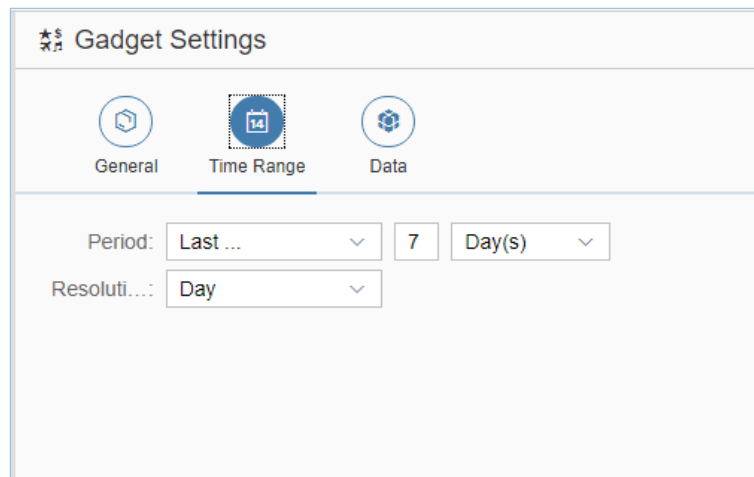


Figure 43: Gadget Settings General

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



Gadget Settings

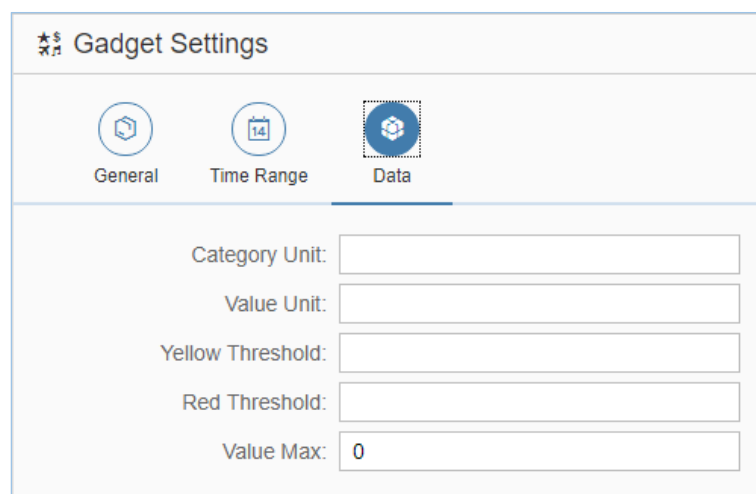
General Time Range Data

Period: Last ... 7 Day(s)

Resoluti...: Day

Figure 44: Time Range Tab

- 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: 0

Figure 45: Data Tab

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

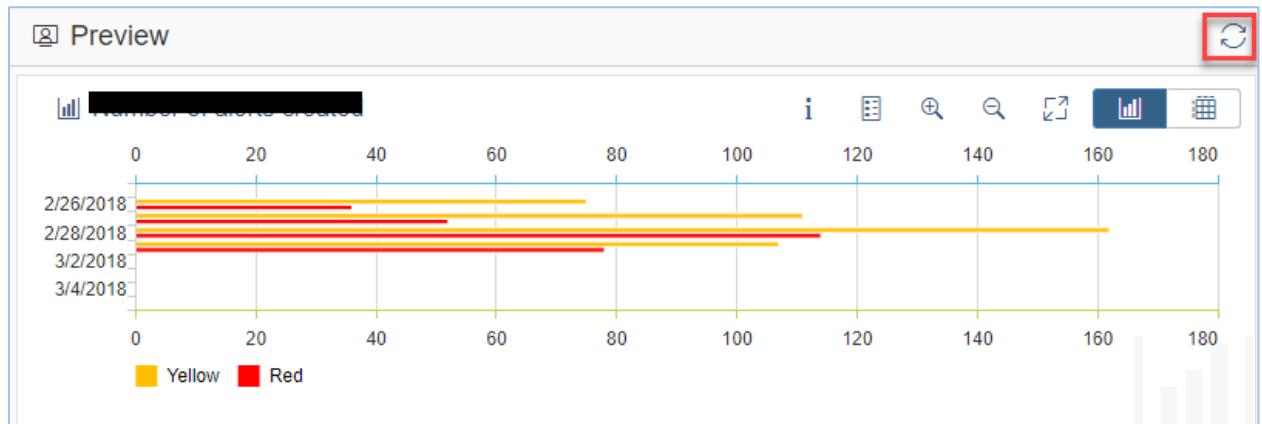


Figure 46: Preview section

- 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

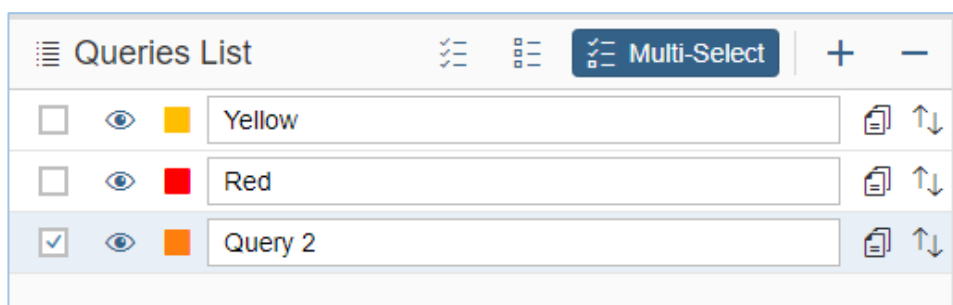


Figure 47: Queries list

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

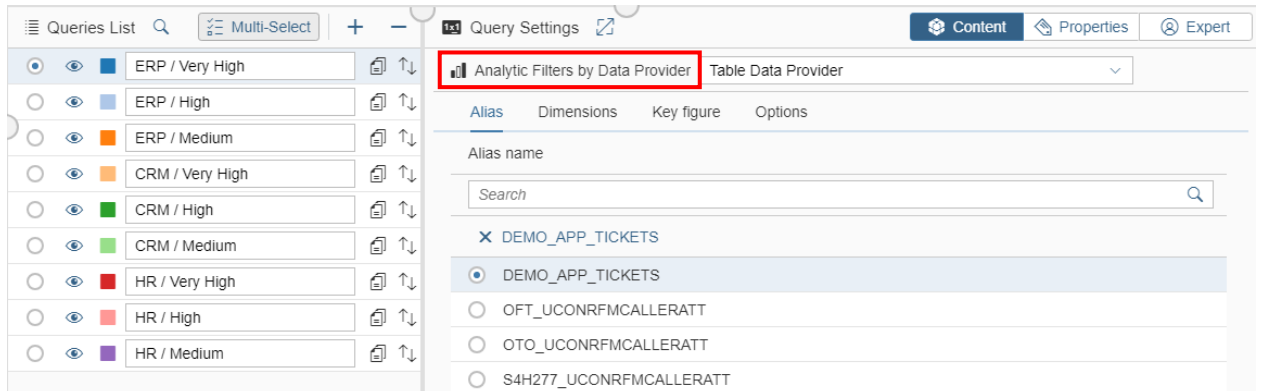


Figure 48: Query settings

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

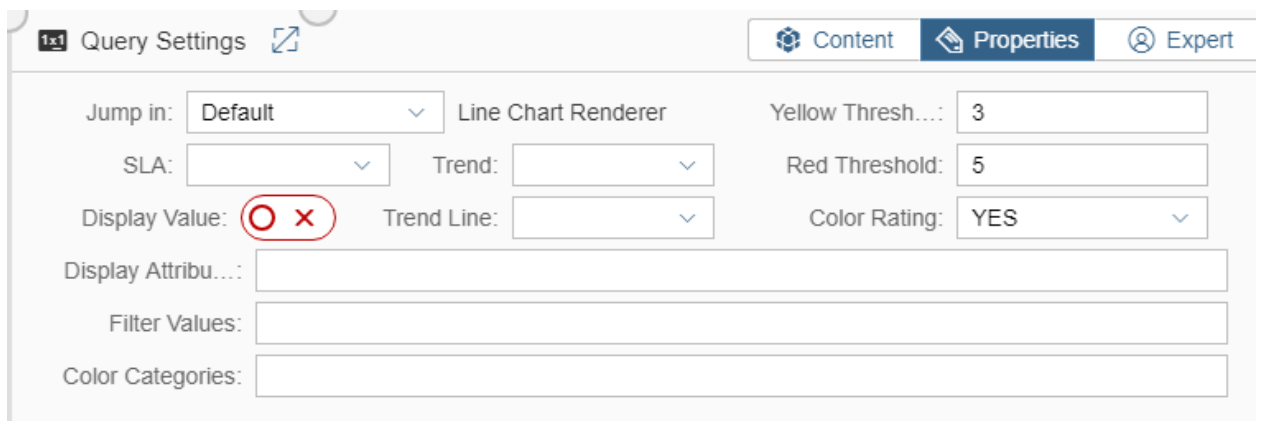


Figure 49: Query Properties

- 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.

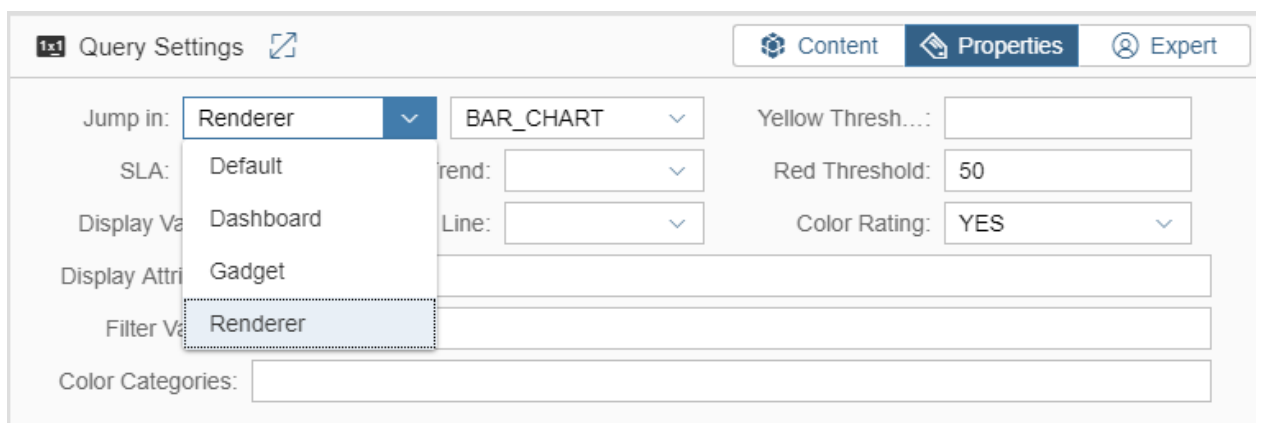


Figure 50: Jump in Property Values

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

Query Settings

Content Properties Expert

Jump in: **Renderer** **BAR_CHART**

SLA: Trend: Yellow Thresh...: Red Threshold: 50 Color Rating: YES

Display Value: **X** Trend Line: Display Attribut...: Filter Values: Color Categories:

Figure 51: Jump in Property Configuration

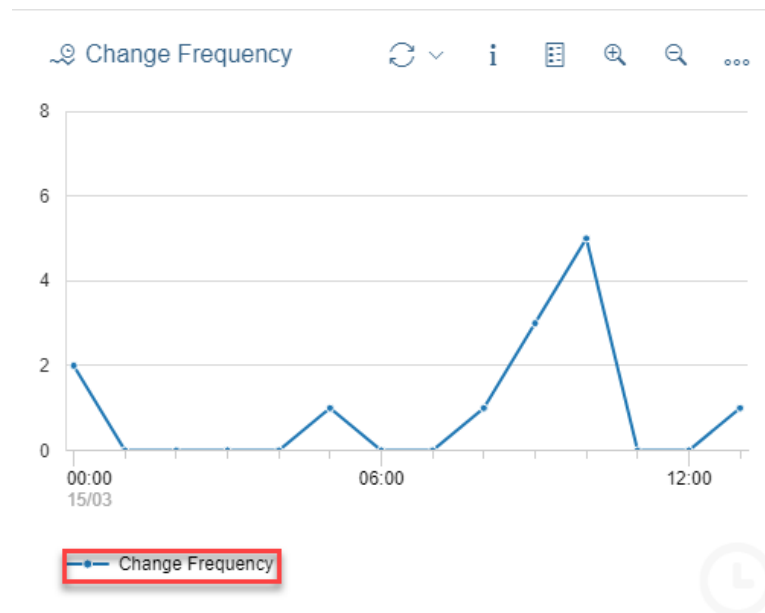


Figure 52: Detail View (1)

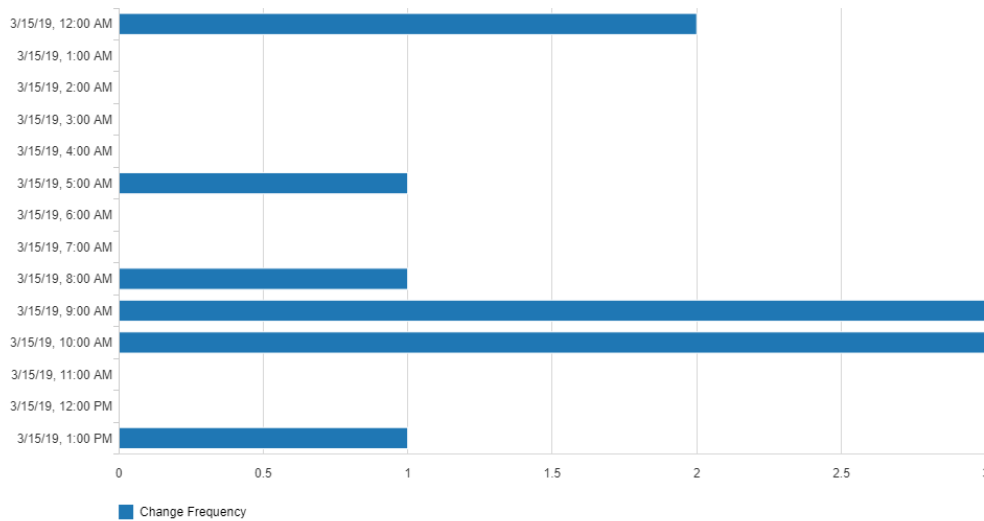


Figure 53: Detail View (2)

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

Query Settings [Link]

Content Properties Expert

Jump in: Default Line Chart Renderer Yellow Threshold: 7

SLA: Average Trend: Trend Line: Red Threshold: 2 Color Rating:

Display Value

Display Attribute: Average

Filter Value: Maximum

Color Category: Minimum

Sum

Last

Figure 54: 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

AVG

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

MIN

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

MAX

Using the MAX 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

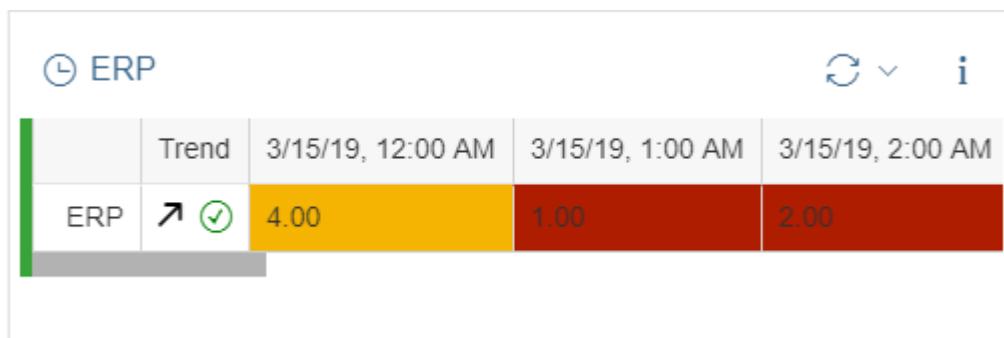
Using the LAST parameter, the returned value is the last value among returned by the query in the chosen period.

- Trend (Up, Down)

The Trend property has two values which are Up and Down, and it is used only with the TREND TABLE RENDERER

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

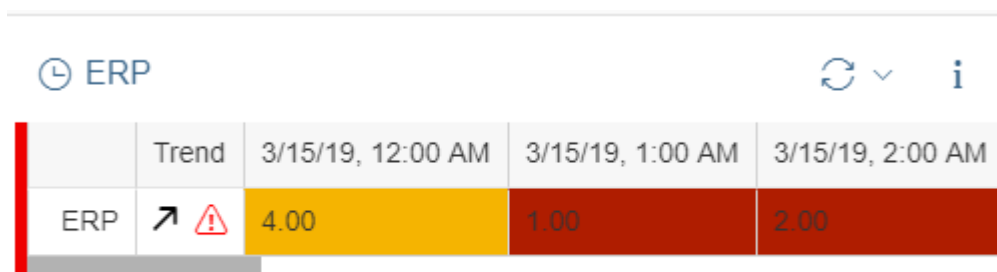
If the trend calculated is an ascending trend and the user chose the value Up or the trend calculated is a descending trend and the user chose the value Down, there will be a green icon displayed.



	Trend	3/15/19, 12:00 AM	3/15/19, 1:00 AM	3/15/19, 2:00 AM
ERP	↗️ ✓	4.00	1.00	2.00

Figure 55: 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



	Trend	3/15/19, 12:00 AM	3/15/19, 1:00 AM	3/15/19, 2:00 AM
ERP	↗️ ⚠️	4.00	1.00	2.00

Figure 56: Detail View with a Red Icon

- Trend Line (Linear Regression, Quadratic Regression).

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

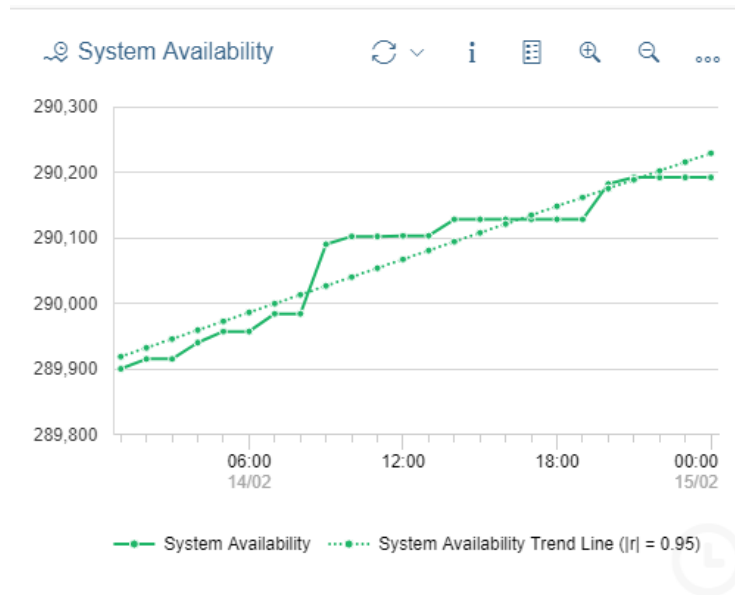


Figure 57: Detail View using Linear Regression Trend Line

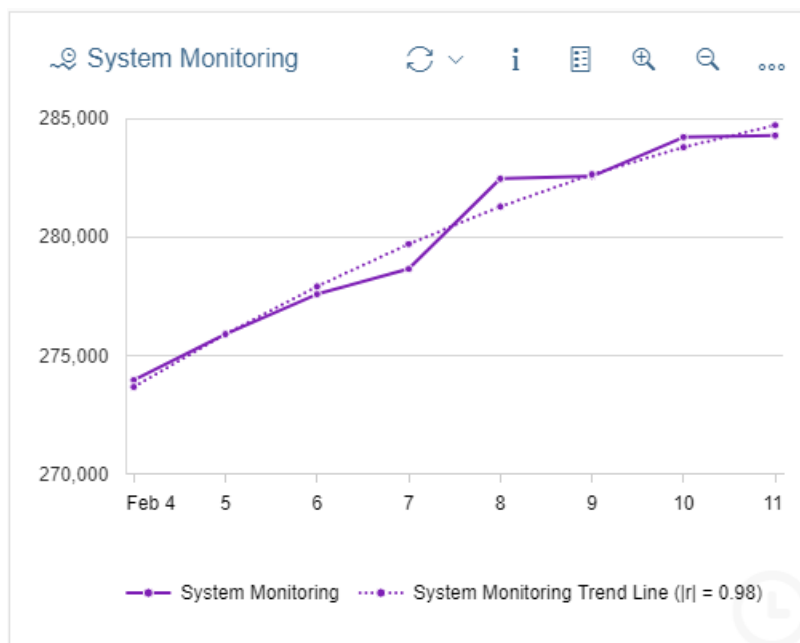


Figure 58: Detail View using Quadratic Regression Trend Line

- Yellow threshold: The value for the yellow threshold
- Red threshold: The value for the red threshold
- 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.

Figure 59: Color Rating Property Configuration

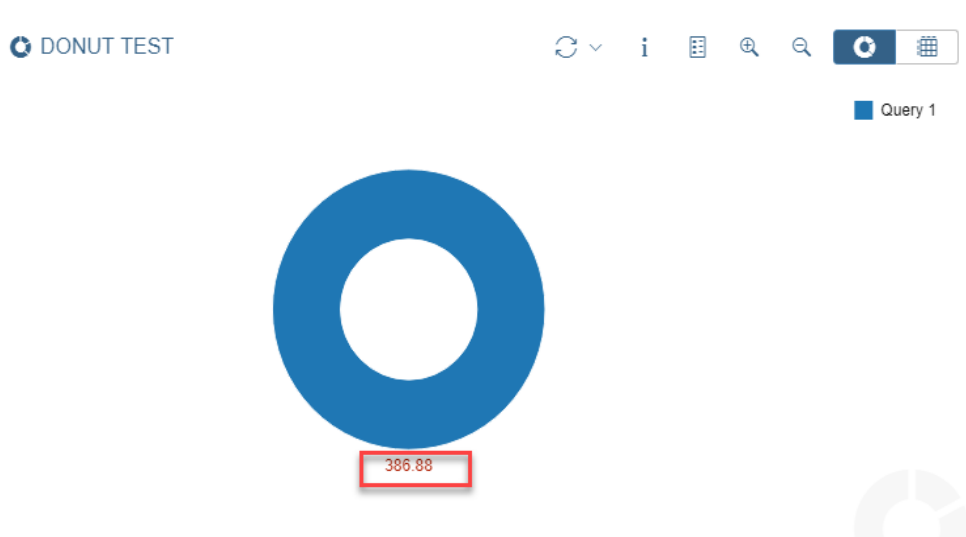


Figure 60: Donut Chart Detail View with a Red rating

1x1 Query Settings

Content
Properties
Expert

Jump in:
Default
Line Chart Renderer

SLA:
Maximum
Trend:

Display Value:
Trend Line:

Display Attribu...:

Filter Values:

Color Categories:

Yellow Thresh...:
100

Red Threshold:
400

Color Rating:
YES

Figure 61: Color Rating Property Configuration

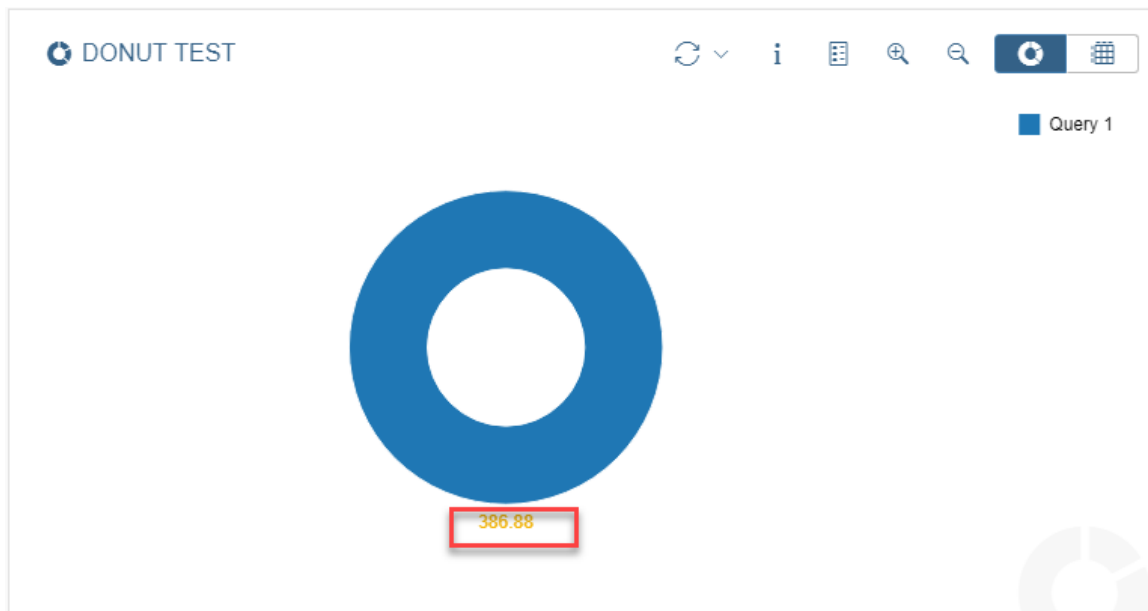


Figure 62: Donut Chart Detail View with a Yellow rating

1x1

Query Settings

Content

Properties

Expert

Jump in:

Default

Line Chart Renderer

Yellow Thresh...:

400

SLA:

Maximum

Trend:

Red Threshold:

450

Display Value:

Trend Line:

Color Rating:

YES

Display Attribu...:

Filter Values:

Color Categories:

Figure 63: Color Rating Property Configuration

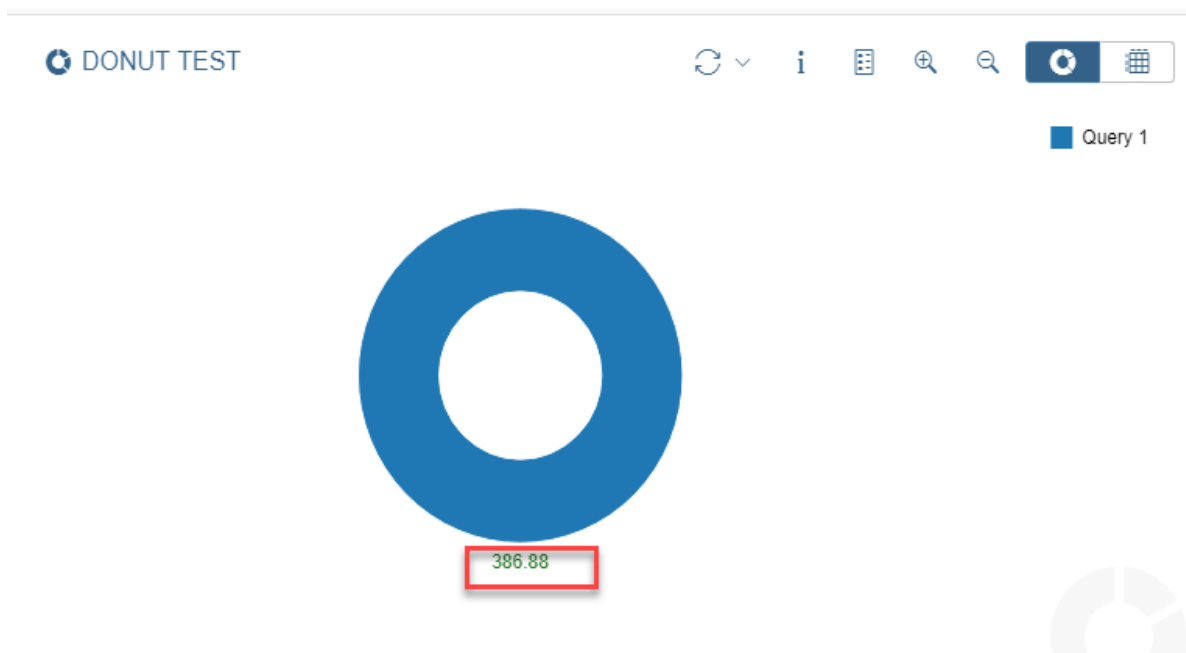



Figure 64: Donut Chart Detail View with a Green rating

If Color Rating = No

The value should be displayed in the color black.

Query Settings 

Content Properties Expert

Jump in: Default Line Chart Renderer Yellow Thresh...: 100

SLA: Maximum Trend: Red Threshold: 300

Display Value: ☒ ☐ Trend Line: Color Rating: NO

Display Attribu...:

Filter Values:

Color Categories:

Figure 65: Color Rating Property Configuration

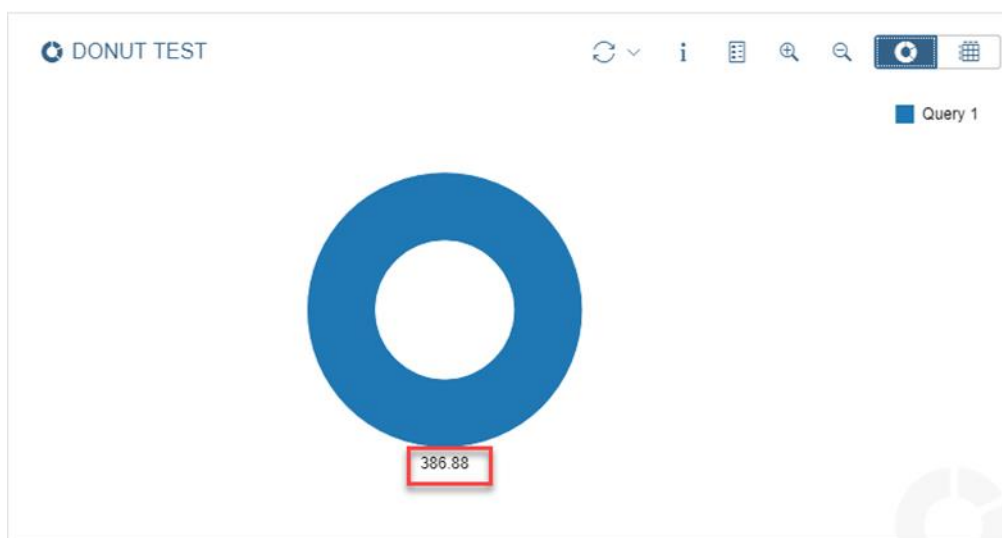


Figure 66: Donut Chart Detail View with a no rating

- 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 67: Expert tab

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)

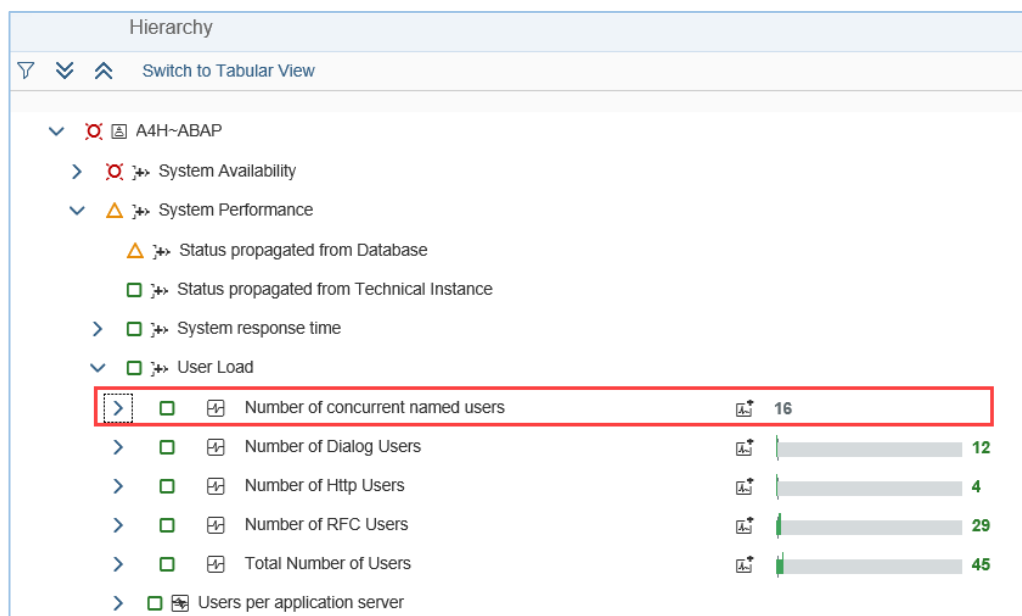


Figure 68: System monitoring view

6- Select "Check Data Collection"

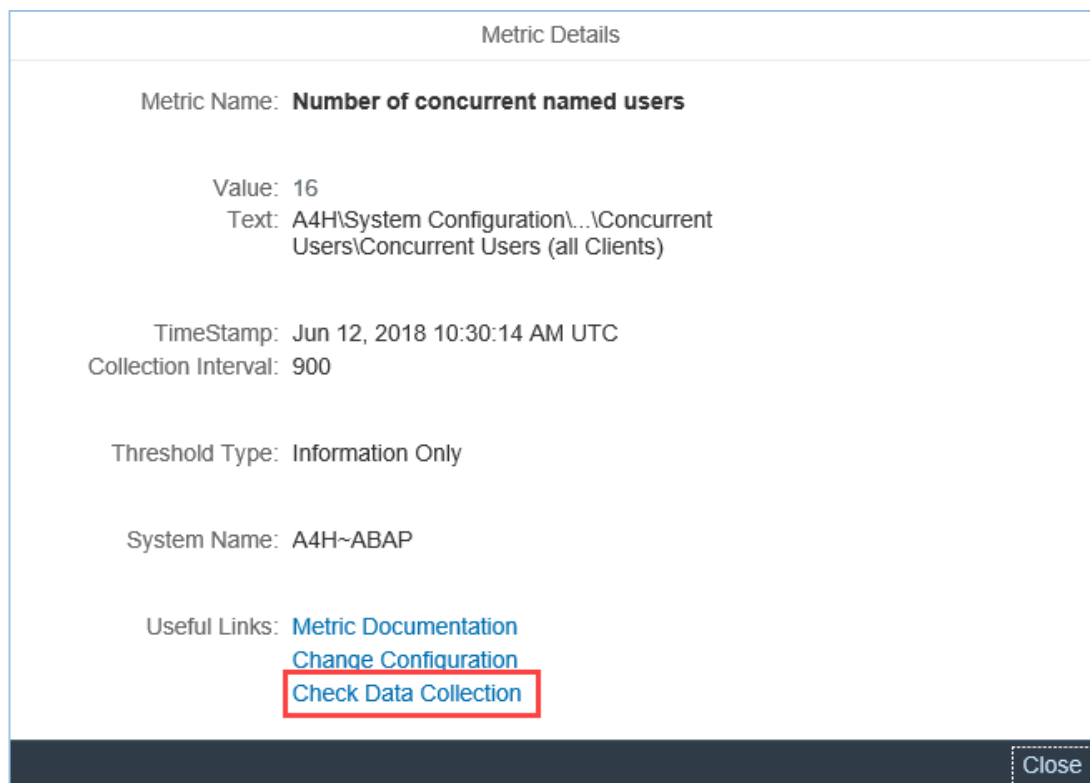


Figure 69: Select "Change Configuration"

7- Click "Monitoring and Alerting Infrastructure Directory Browser"

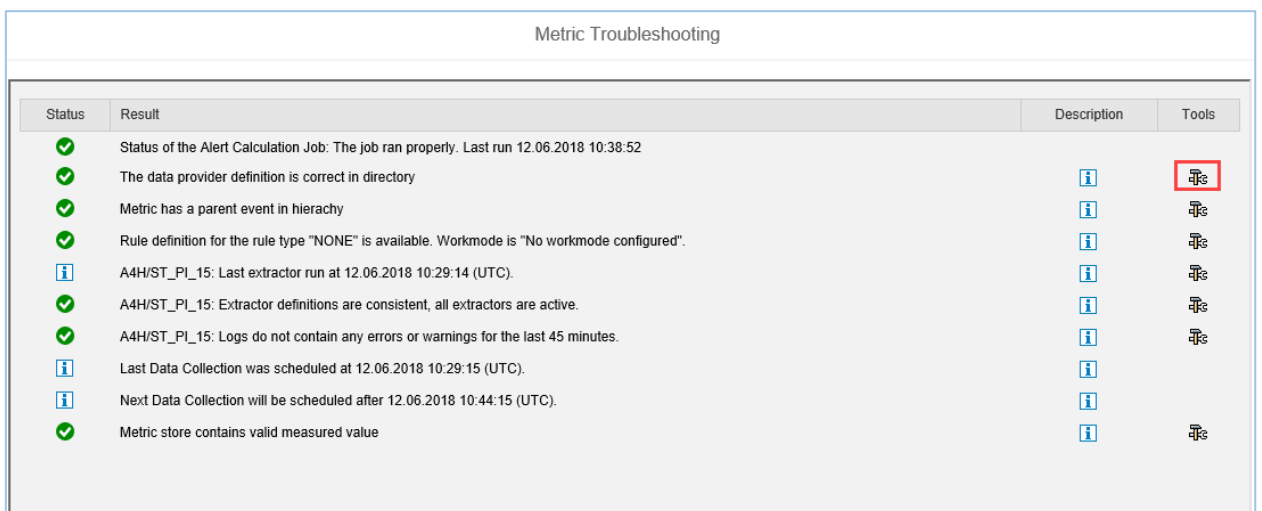


Figure 70: Click "Monitoring and Alerting Infrastructure Directory Browser"

8- Copy the metric name

The screenshot shows the 'Details for Metric Type: Number of concurrent named users' page. The 'Metric Name' field is highlighted with a red box and contains the text 'ABAP_SYS_CONCURRENT_USERS'. Other fields include 'Metric ID', 'Managed Object Name' (A4H-ABAP), 'Managed Object ID', 'Global ID', 'Applied from Template', 'Applied Template ID', 'Originating Template', and 'Originating Template ID'.

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 71: Copy the metric name

9- Access OCC dashboard

10- Press button "Edit"

The screenshot shows the header bar of the OCC dashboard. The 'TEST DASHBOARD' button is highlighted with a red box. The header bar also includes a search icon, a refresh icon, and a user profile icon.

Figure 72: 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)

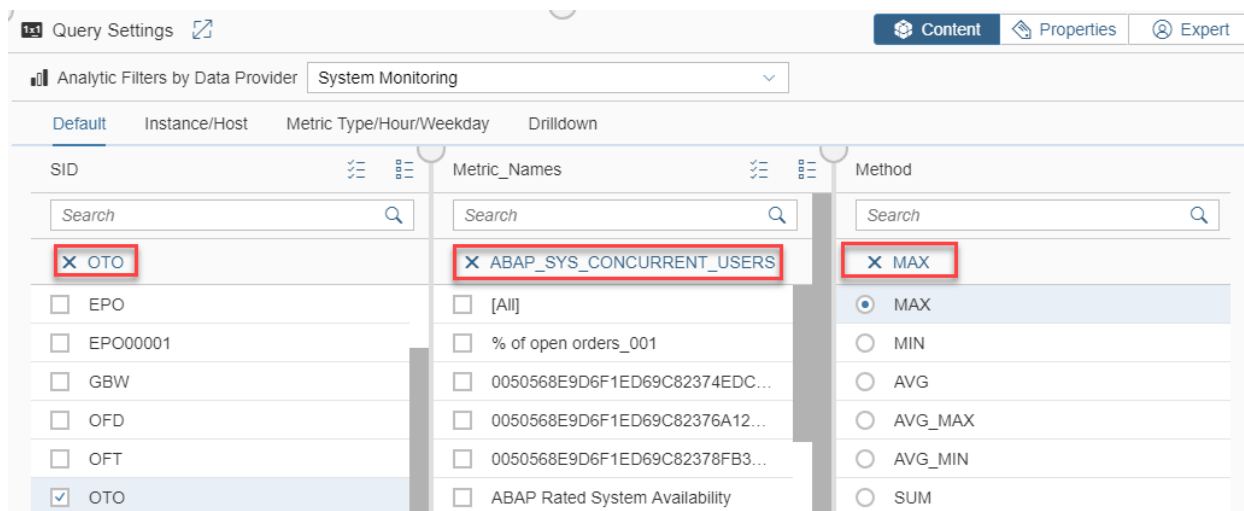


Figure 73: Method Selection

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.

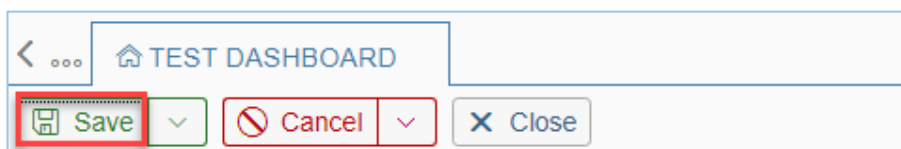


Figure 74: Save Dashboard

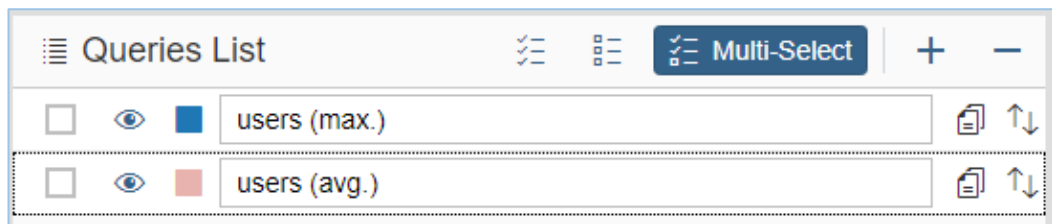


Figure 75: Multiple Queries

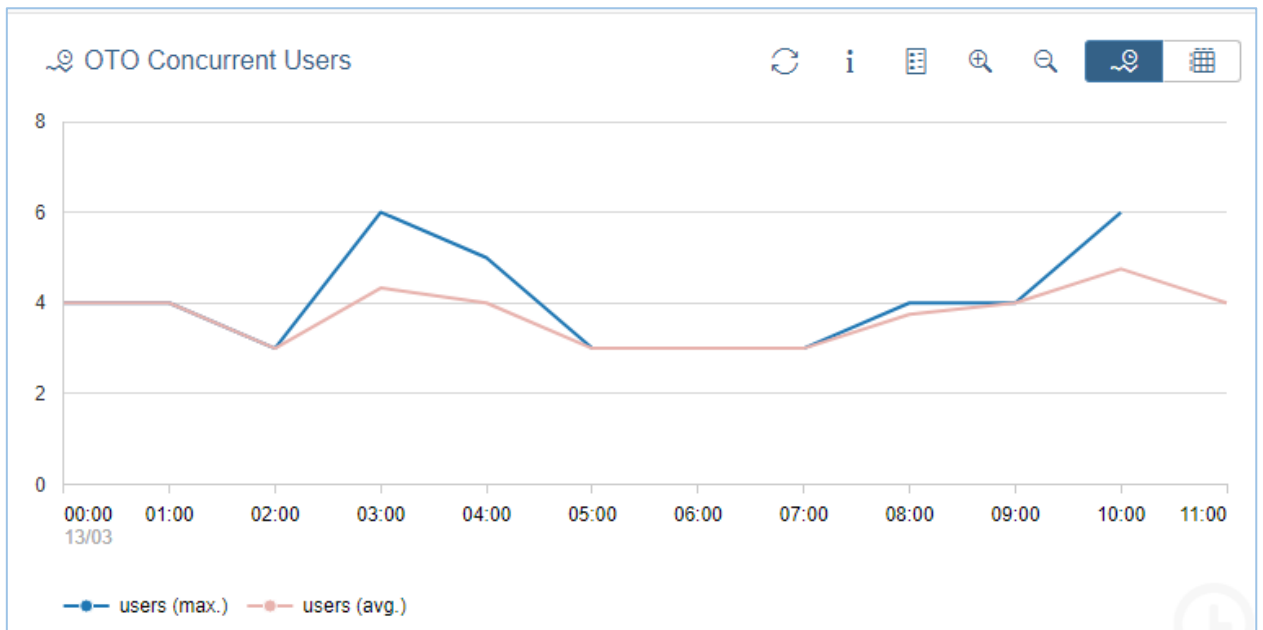


Figure 76: Displayed Chart

5.1.1 System Monitoring Metrics at Instance or Host Level

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

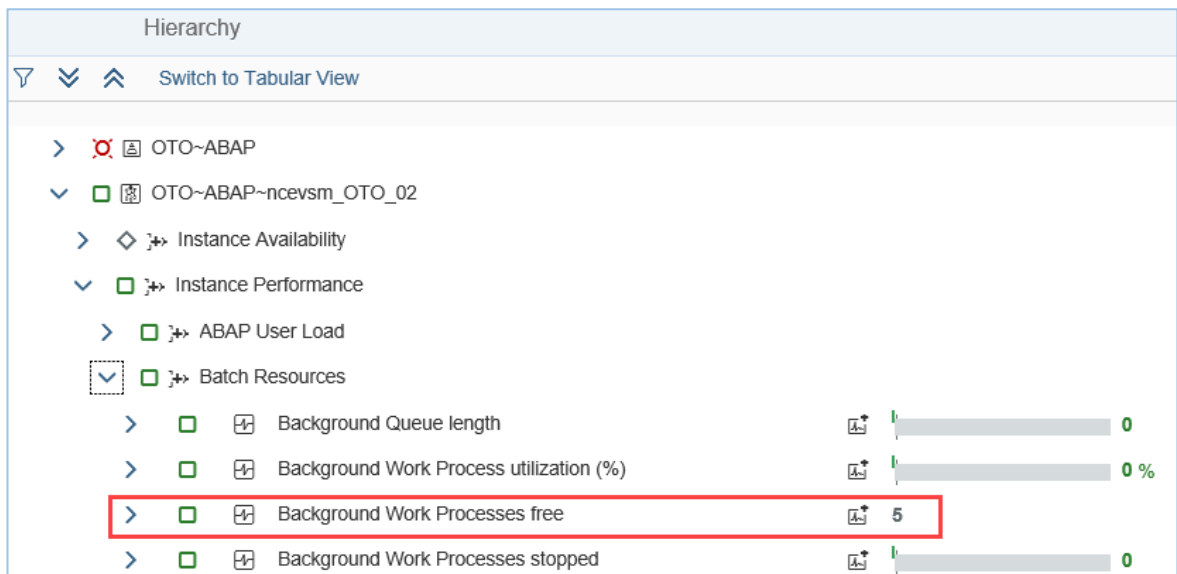


Figure 77: System monitoring metrics

- 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")

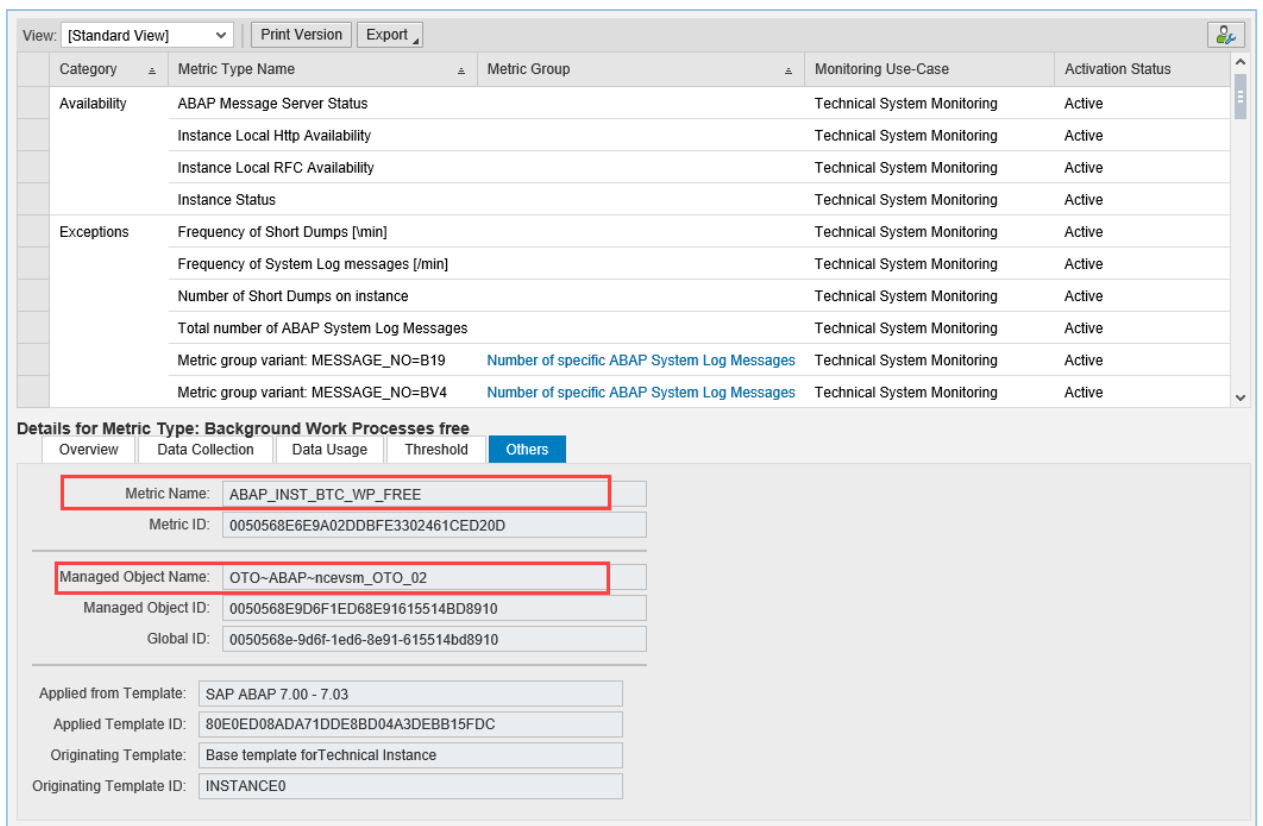


Figure 78: System monitoring Overview

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)

SID	Metric_Names	Method
<input checked="" type="checkbox"/> OTO <input type="checkbox"/> [All] <input type="checkbox"/> A&Z <input type="checkbox"/> EPO <input type="checkbox"/> EPO00001 <input type="checkbox"/> GBW <input type="checkbox"/> OFD <input type="checkbox"/> OFT <input checked="" type="checkbox"/> OTO	<input checked="" type="checkbox"/> ABAP_INST_BTC_WP_FREE <input type="checkbox"/> ABAP_DIALOG_WORK_PROCES... <input type="checkbox"/> ABAP_DISP_WAIT_QUEUE_UTILI... <input type="checkbox"/> ABAP_IDOCS_IN_RED_STATE_1... <input type="checkbox"/> ABAP_IDOCS_IN_YELLOW_STAT... <input type="checkbox"/> ABAP_INST_BTC_QUEUE LENG... <input type="checkbox"/> ABAP_INST_BTC_QUEUE UTILI... <input checked="" type="checkbox"/> ABAP_INST_BTC_WP_FREE <input type="checkbox"/> ABAP_INST_BTC_WP_STOPPED	<input checked="" type="radio"/> MAX <input type="radio"/> MIN <input type="radio"/> AVG <input type="radio"/> AVG_MAX <input type="radio"/> AVG_MIN <input type="radio"/> SUM

Figure 79: 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).

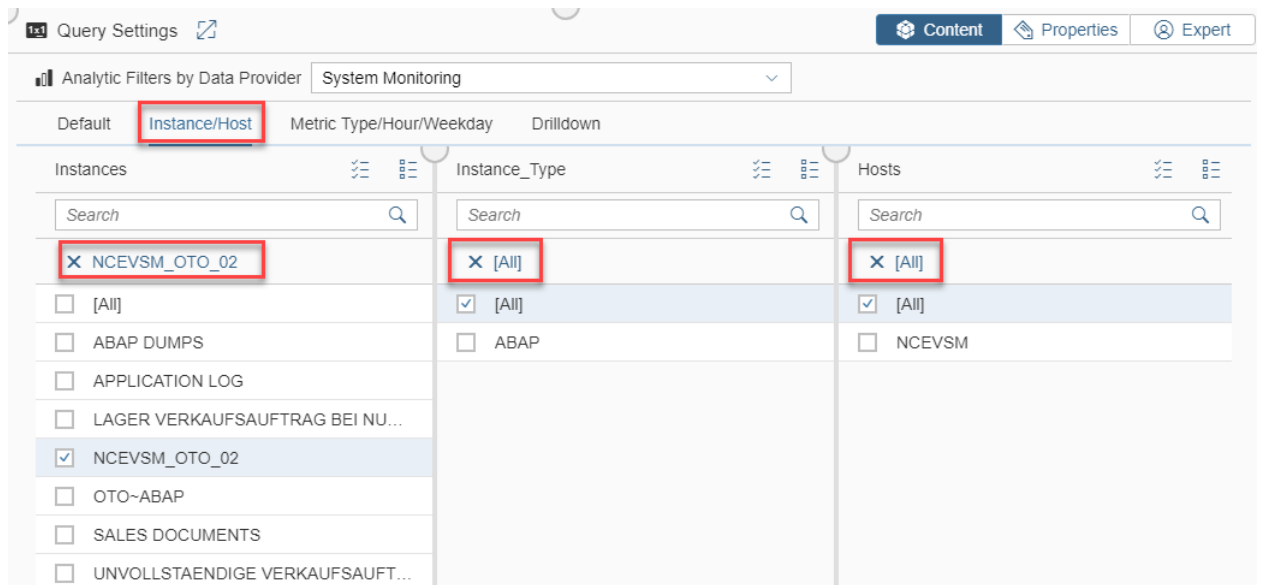


Figure 80: Instance name

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"

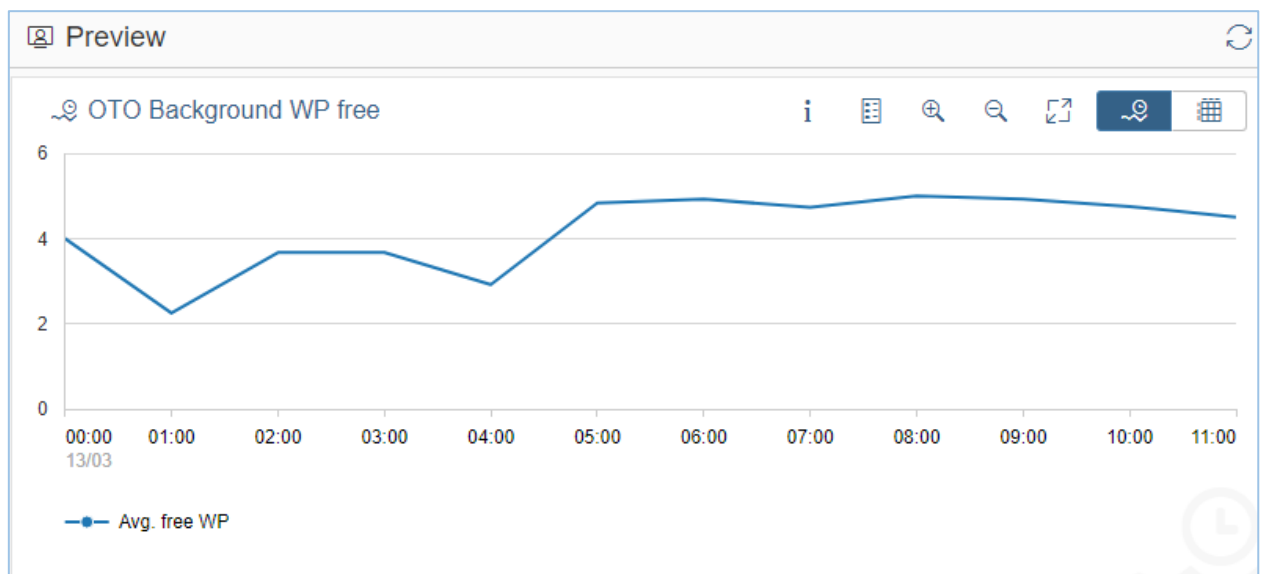


Figure 81: App/Save Dashboard

15. Click on “Save and Close” button.

i 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

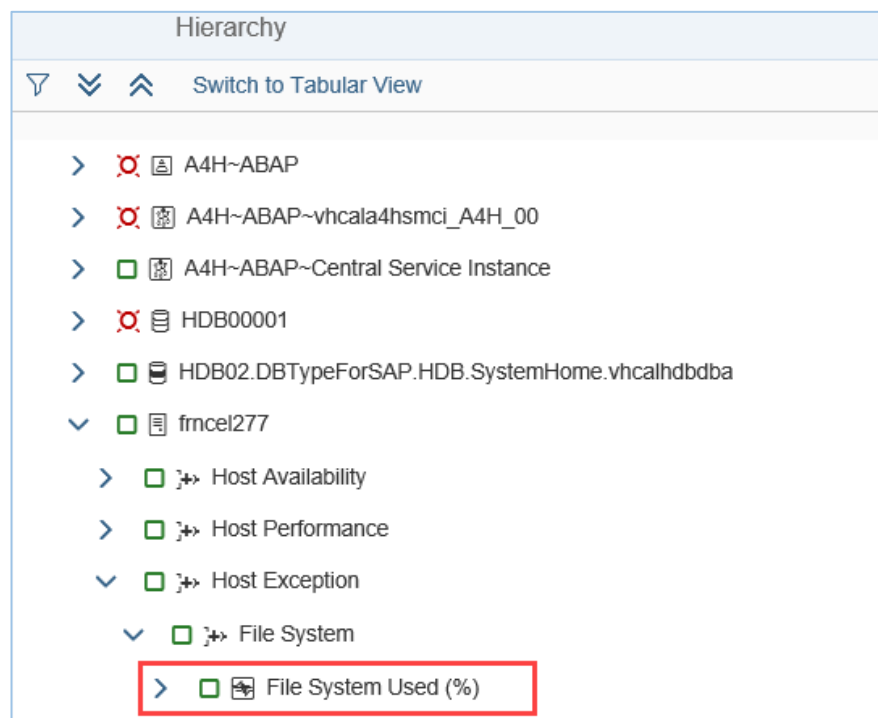
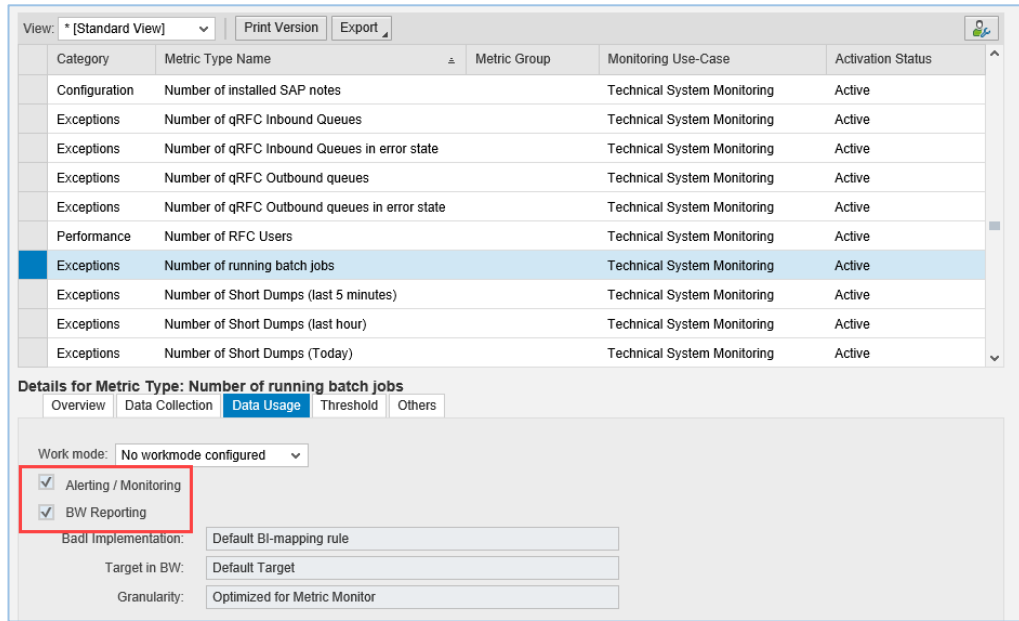


Figure 82: System monitoring and metrics variants

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”.



Category	Metric Type Name	Metric Group	Monitoring Use-Case	Activation Status
Configuration	Number of installed SAP notes		Technical System Monitoring	Active
Exceptions	Number of qRFC Inbound Queues		Technical System Monitoring	Active
Exceptions	Number of qRFC Inbound Queues in error state		Technical System Monitoring	Active
Exceptions	Number of qRFC Outbound queues		Technical System Monitoring	Active
Exceptions	Number of qRFC Outbound queues in error state		Technical System Monitoring	Active
Performance	Number of RFC Users		Technical System Monitoring	Active
Exceptions	Number of running batch jobs		Technical System Monitoring	Active
Exceptions	Number of Short Dumps (last 5 minutes)		Technical System Monitoring	Active
Exceptions	Number of Short Dumps (last hour)		Technical System Monitoring	Active
Exceptions	Number of Short Dumps (Today)		Technical System Monitoring	Active

Details for Metric Type: Number of running batch jobs

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

Work mode: No workmode configured

☒ Alerting / Monitoring

☒ BW Reporting

Bad Implementation: Default BI-mapping rule

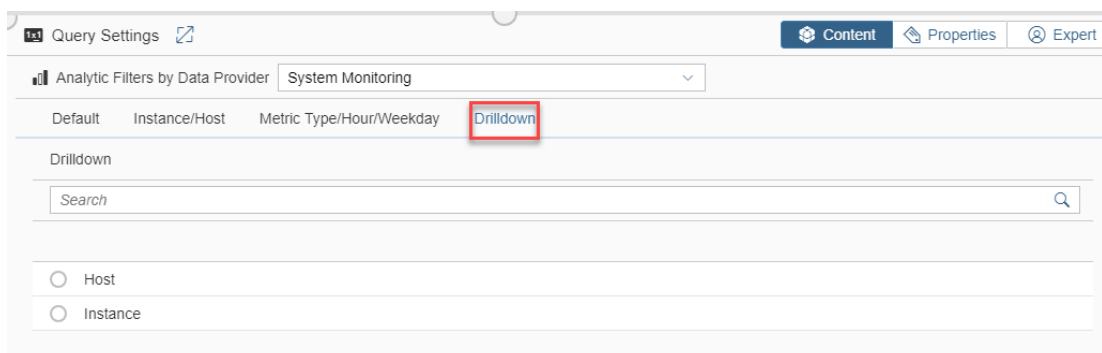
Target in BW: Default Target

Granularity: Optimized for Metric Monitor

Figure 83: 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.



Query Settings

Analytic Filters by Data Provider: System Monitoring

Default | Instance/Host | Metric Type/Hour/Weekday | **Drilldown**

Drilldown

Search

☐ Host

☐ Instance

Figure 84: 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)

The screenshot shows the 'Query Settings' window for 'System Monitoring'. It has three tabs: 'Default', 'Instance/Host', and 'Drilldown'. The 'Default' tab is selected. Below the tabs are three columns: 'SID', 'Metric_Names', and 'Method'. Each column has a search bar and a list of items. In the 'SID' column, 'OFT' and 'SHM110' are selected. In the 'Metric_Names' column, 'DIALOG_RESPONSE_TIME' is selected. In the 'Method' column, 'AVG' is selected.

Figure 85: Metric name

5. Select the tab "Instance/Host"

The screenshot shows the 'Query Settings' window for 'System Monitoring' with the 'Instance/Host' tab selected. It has three columns: 'Instances', 'Instance_Type', and 'Hosts'. Each column has a search bar and a list of items. In the 'Instances' column, 'LDCIOFT_OFT_78' is selected. In the 'Instance_Type' column, '[All]' is selected. In the 'Hosts' column, '[All]' is selected.

Figure 86: Instances name

6. Select the tab "Drilldown"

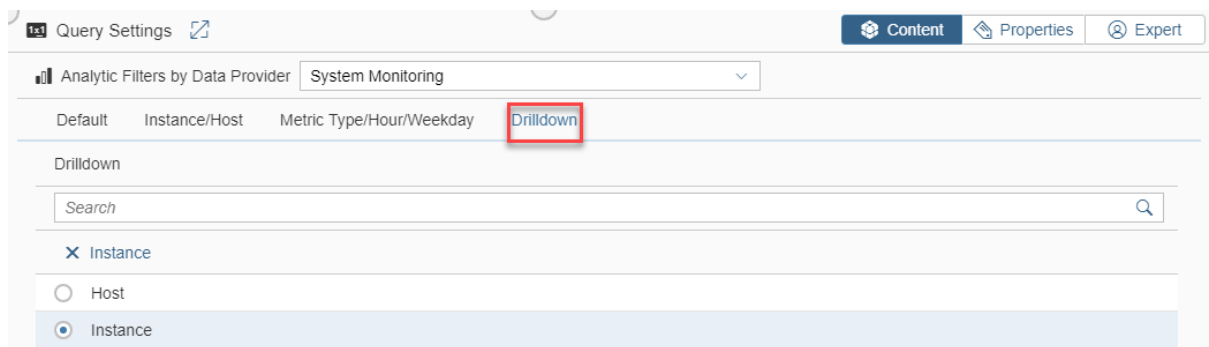


Figure 87: Drilldown type

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"

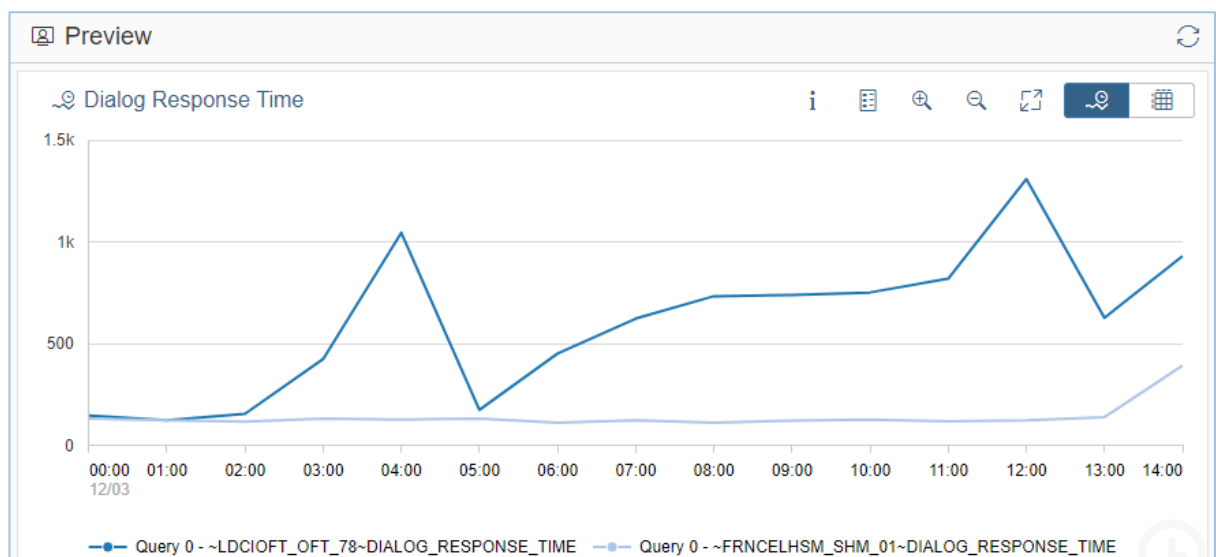


Figure 88: Displayed chart

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

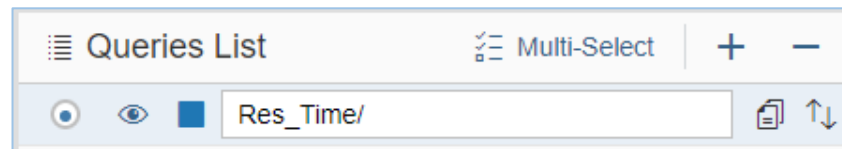


Figure 89: Legend

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.

System	Avail	Config	Error	Perf	Alerts
SHD110	✓	?	🔥	🔥	13 Alerts

Figure 90: 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.

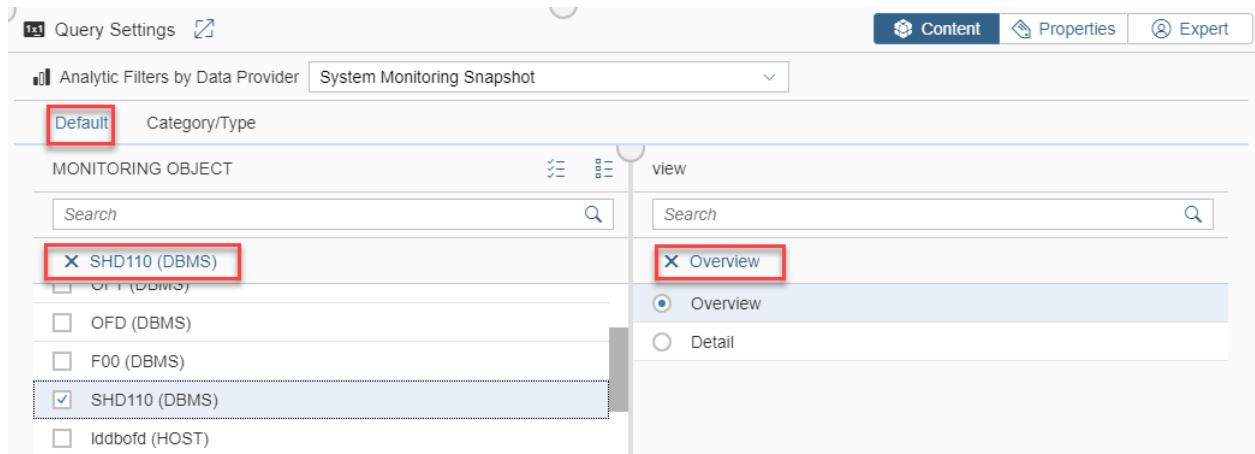


Figure 91: Configure Gadget (1)

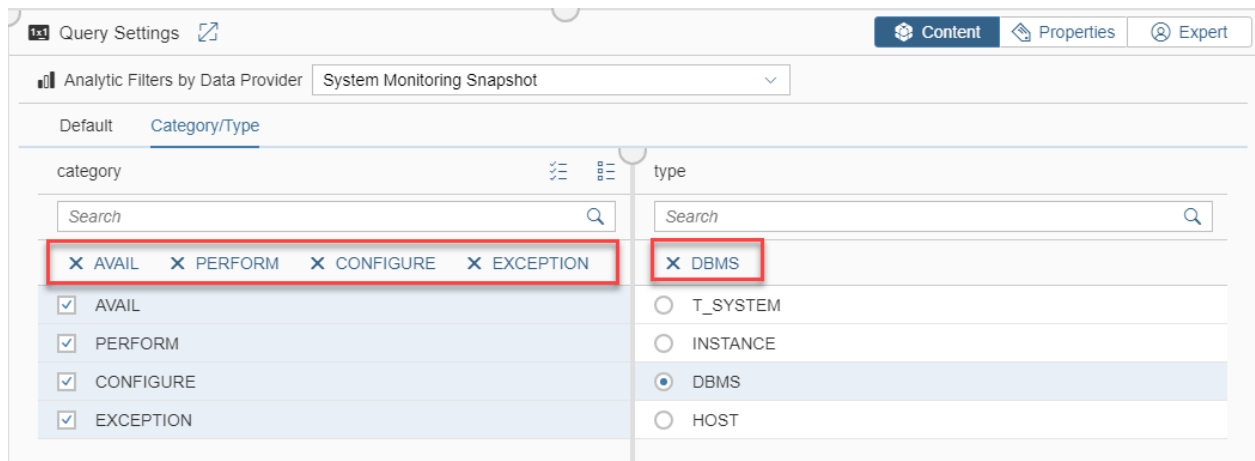


Figure 92: Configure Gadget (2)

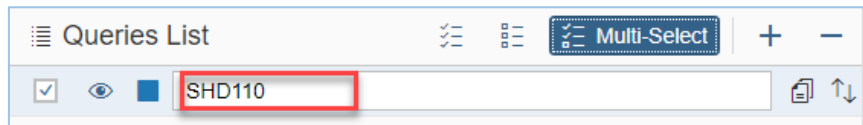


Figure 93: Legend

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...).

Overview SYSMON_SNAPSHOT	
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 94: 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.

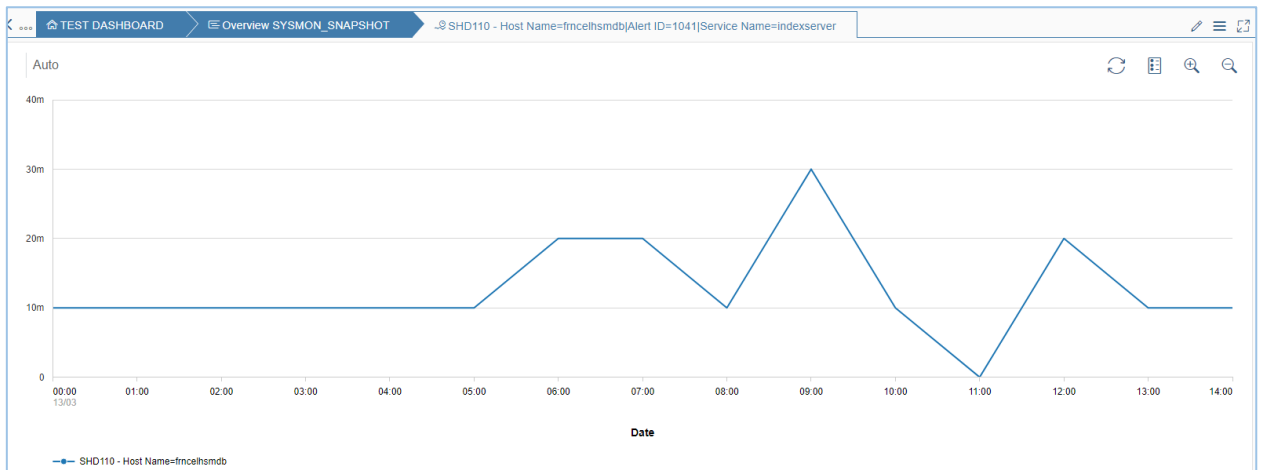


Figure 95: Detail view (2)

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.

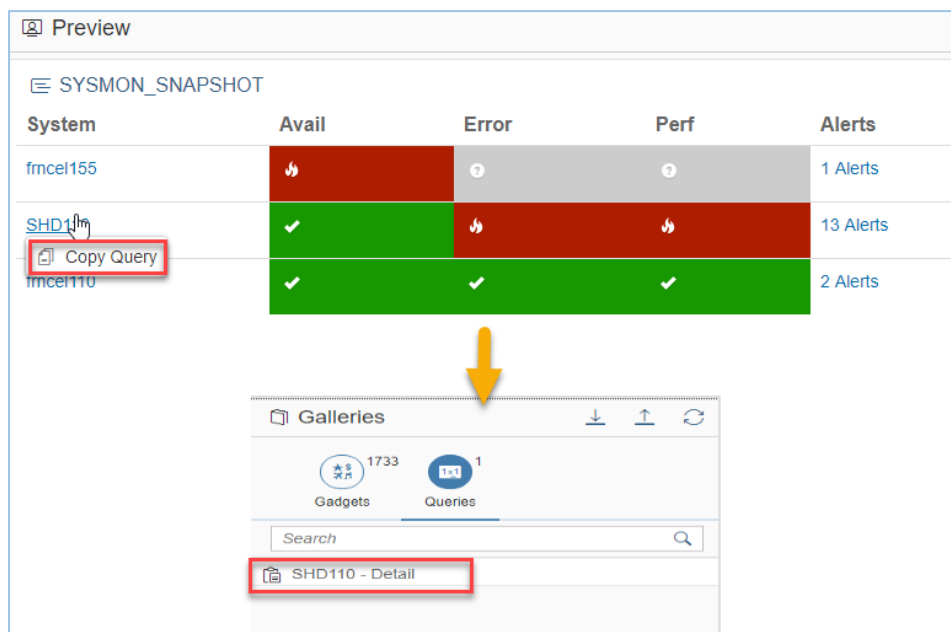


Figure 96: Copy Query (Overview view)

- 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.

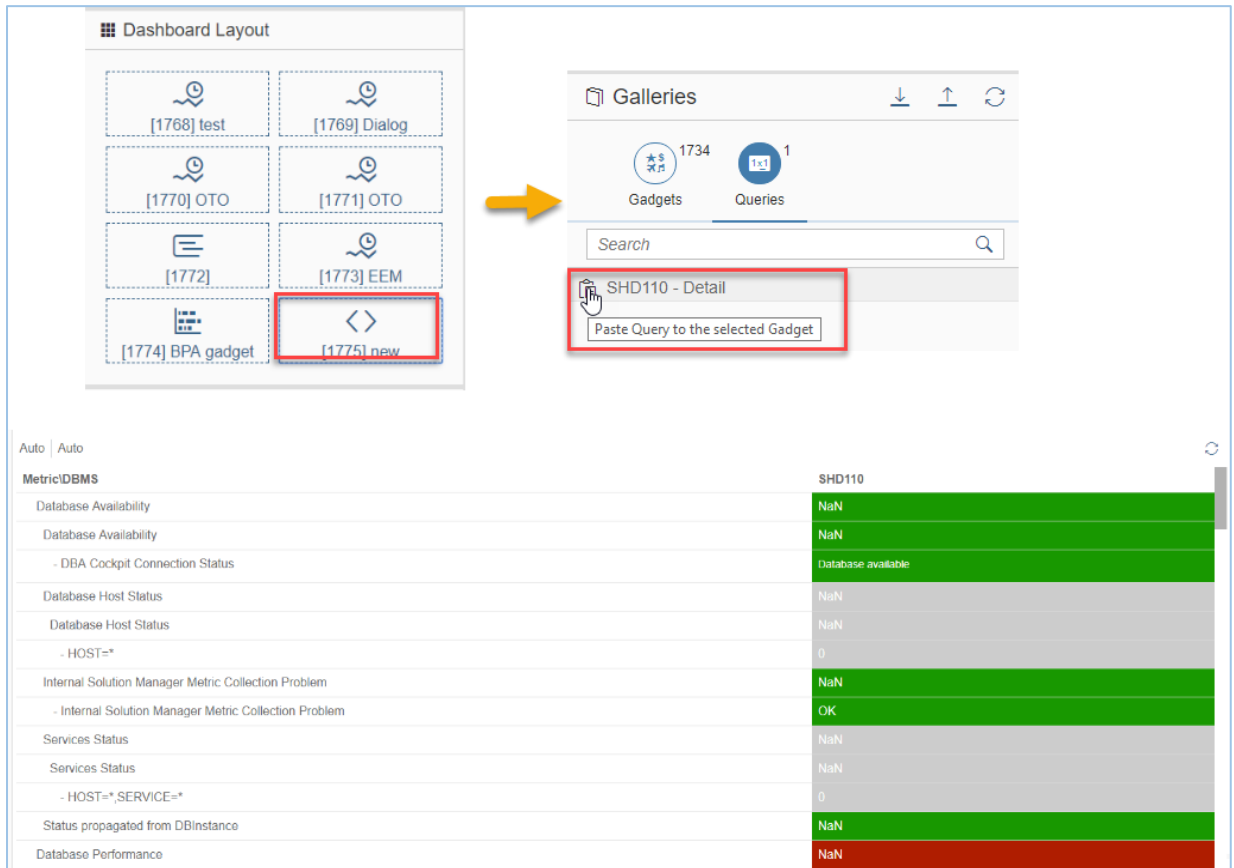


Figure 97: Paste Query (Overview view)

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

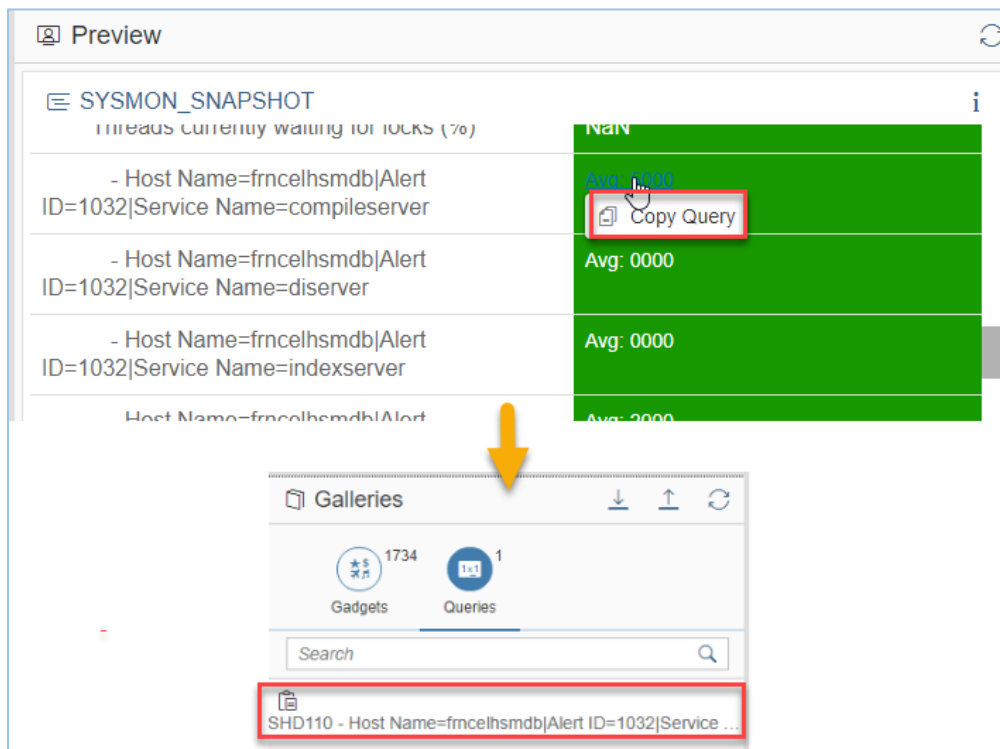


Figure 98: Copy Query (Detail View)

- 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.

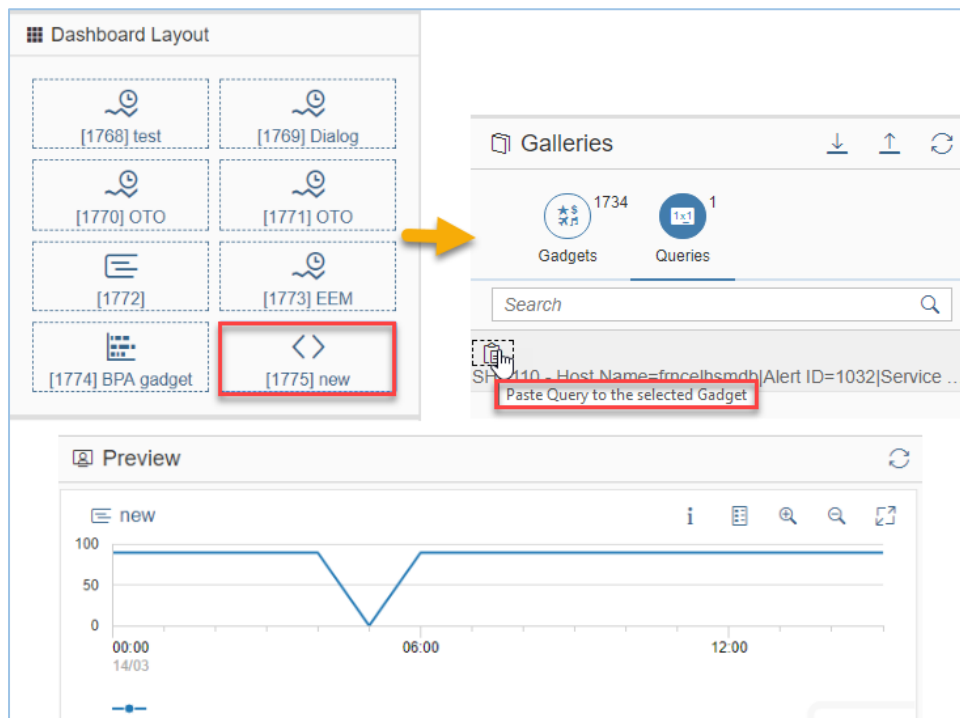


Figure 99: Paste Query (Detail View)

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
<input checked="" type="radio"/> vhcals4hsmci <input type="radio"/> vhcals4hci <input type="radio"/> frontend	<input checked="" type="radio"/> UXMon Selfcheck Script <input type="radio"/> Sales Order Full <input type="radio"/> MII Scheduler Status <input type="radio"/> Script_S4H	<input checked="" type="radio"/> Response Time <input type="radio"/> Status

Figure 100: 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:HANADB P=[display_value=false agent=vhcala4hsmci script=UXMon Selfcheck Script metric=RESPONSE_TIME

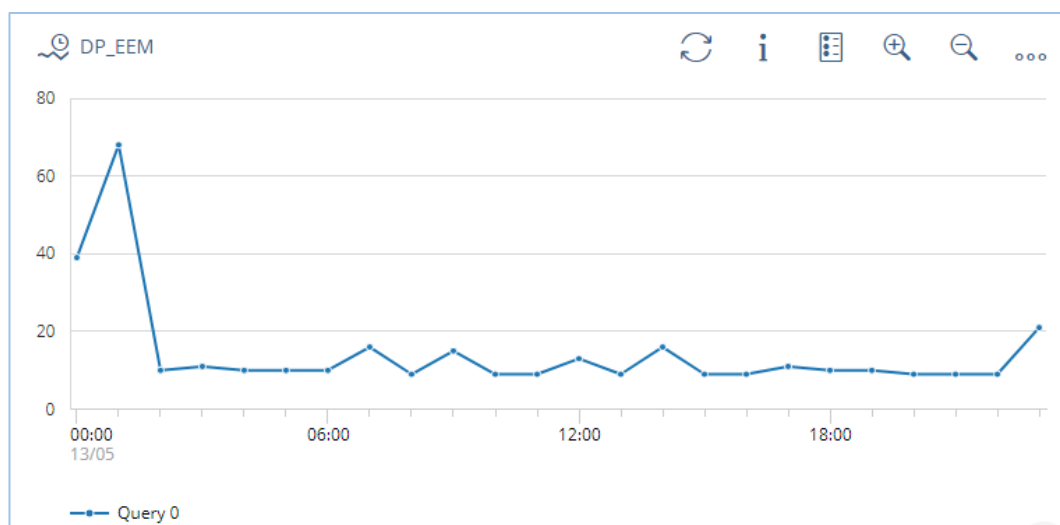


Figure 101: Metric chart

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

Figure 102 shows the 'Gadget Configuration (1)' interface. At the top, there's a dropdown menu for 'Analytic Filters by Data Provider' set to 'End-user Experience Monitoring BI Data Provider'. Below this, there are three tabs: 'Agent/Script/Step', 'Hour/Weekday', and 'More'. The 'Agent/Script/Step' tab is active, showing three columns: 'agent', 'script', and 'step'. Each column has a search bar and a list of items with checkboxes. In the 'agent' column, 'vhcala4hsmci' is selected. In the 'script' column, 'UXMon Selfcheck Script' is selected. In the 'step' column, '[All]' is selected.

Figure 102: Gadget Configuration (1)

Using the tab “Hour/Weekday” It’s possible to filter on business hours or business days.

Figure 103 shows the 'Gadget Configuration (2)' interface. The 'Hour/Weekday' tab is active, showing two columns: 'hour' and 'weekday'. Each column has a search bar and a list of items with checkboxes. In the 'hour' column, '[All]' is selected. In the 'weekday' column, '[All]' is selected. Below the 'hour' column, there is a 'More' button and a link '[20 / 25]'.

Figure 103: 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

Legend	Query
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

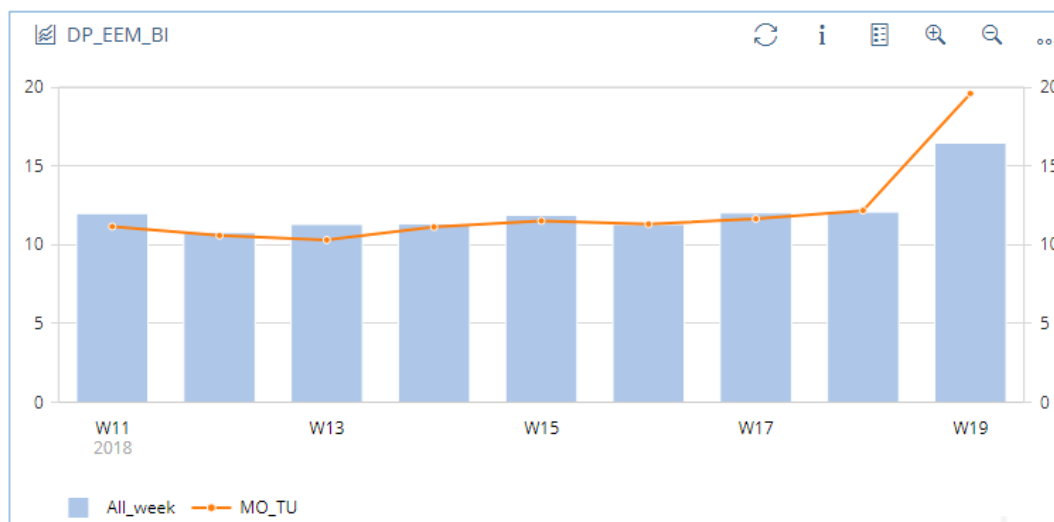


Figure 104: EEM Dashboards overview

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
Search	Search	Search	S...	Search
<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"/> Corporate Solution	<input type="radio"/> Operations	<input type="radio"/> PtP: Purchase order items ...	<input type="radio"/> S4H	<input type="radio"/> 804
		<input type="radio"/> PtP: Purchase requisition it...		
		<input type="radio"/> PtP: Overdue MM Invoices ...		
		<input type="radio"/> PtP: Overdue open vendor i...		

Figure 105: DP_BPA_KPI Gadget configuration (1)

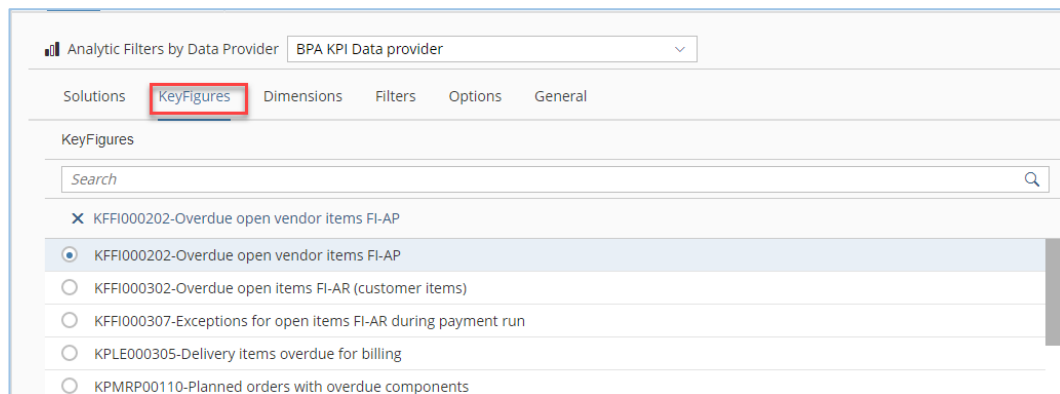


Figure 106: DP_BPA_KPI Gadget configuration (2)

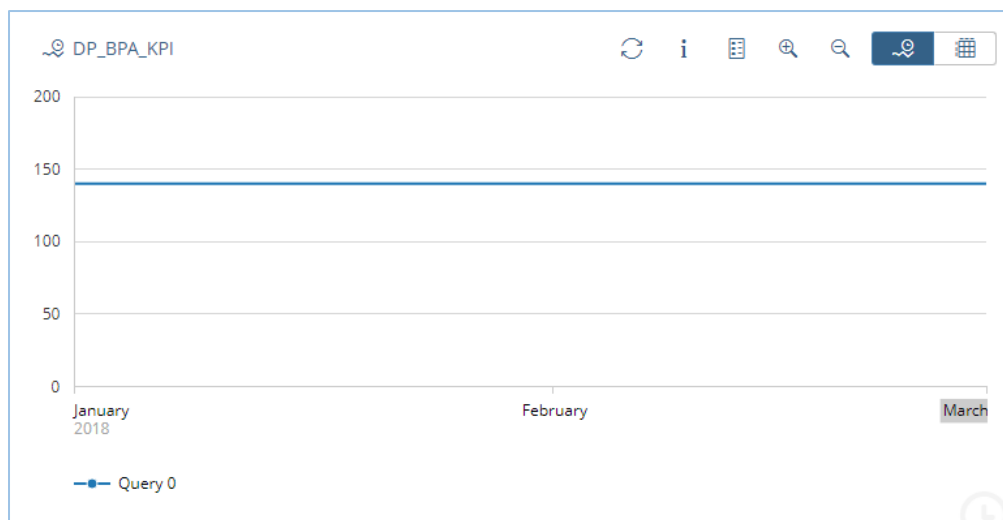


Figure 107: Detail view

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

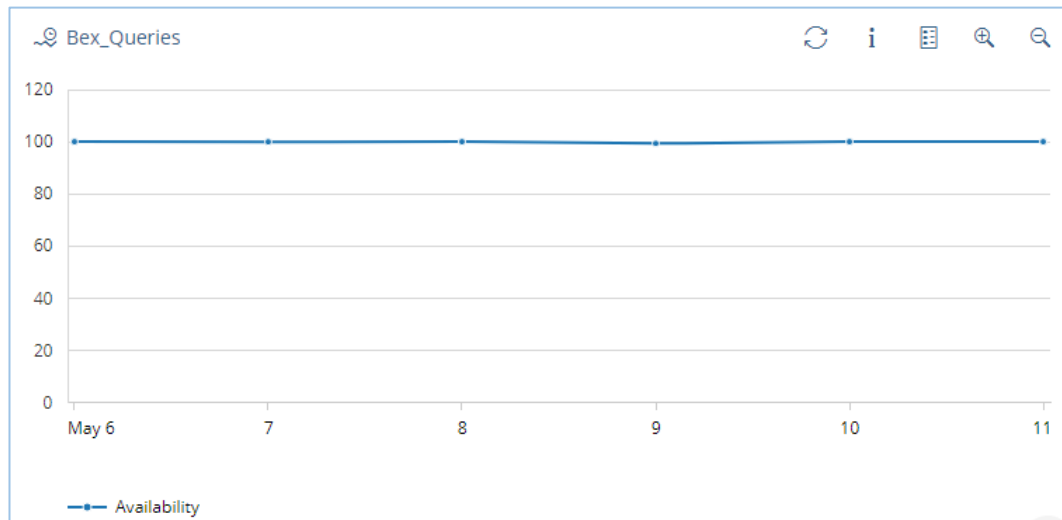


Figure 108: Detail view

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.

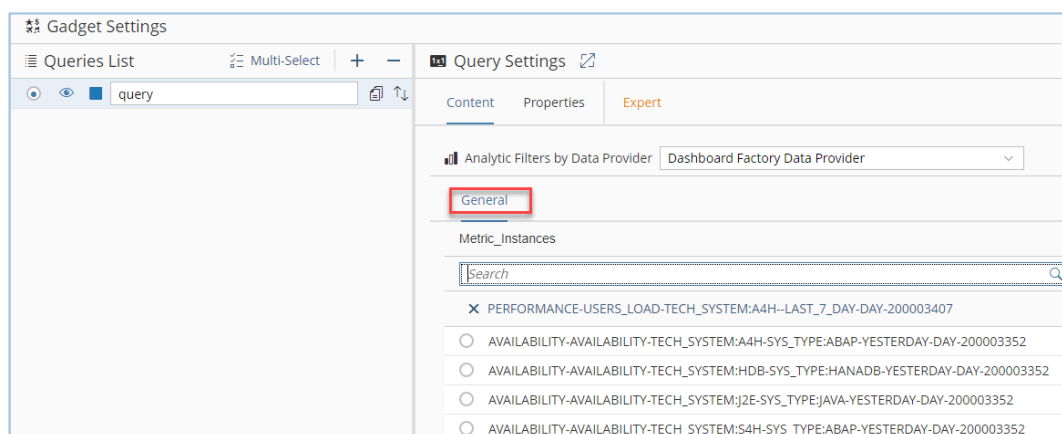


Figure 109: DP_DF_TAC configuration gadget

Legend	Query
query	/STDF/DP_DF_TAC:Metric_Instances=200003407 M=PERFORMANCE:USERS_LOAD T=LAST_7_DAY:DAY D=TECH_SYSTEM:A4H F= P= visible=true legend=query COLOR=#1f77b4 OCC_JUM P_IN=

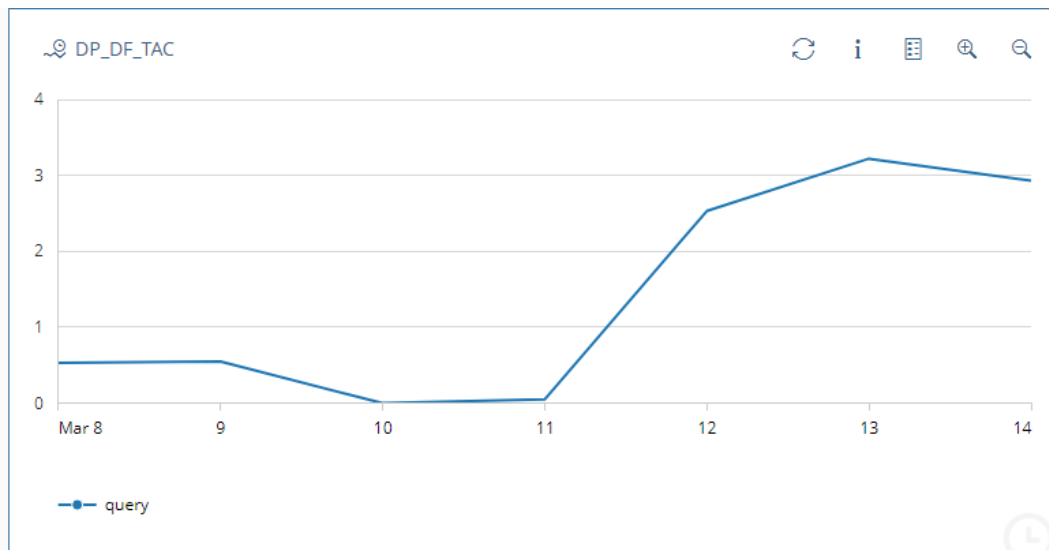


Figure 110: DP_DF_TAC Gadget

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.

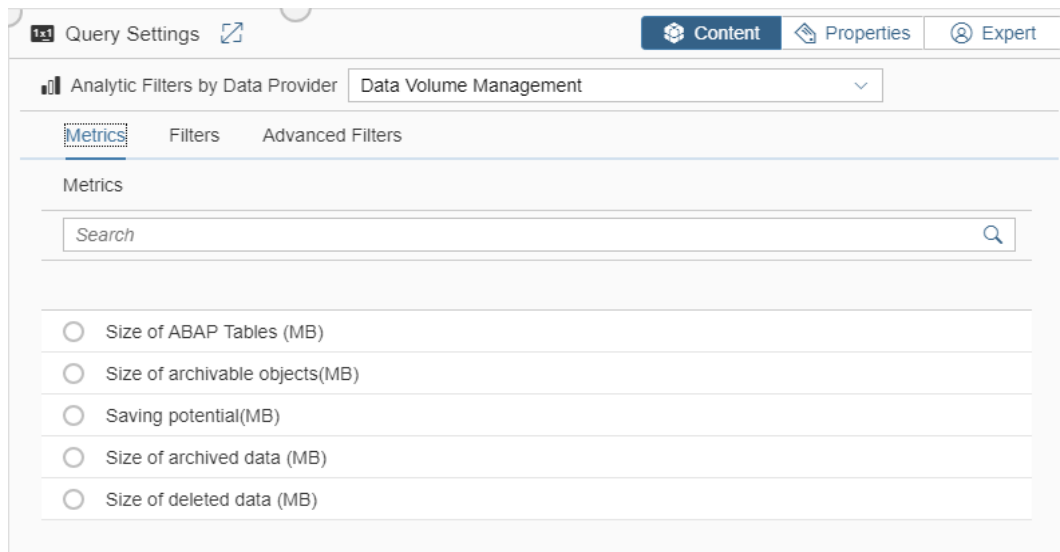


Figure 111: DVM DP: KPI List

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)	

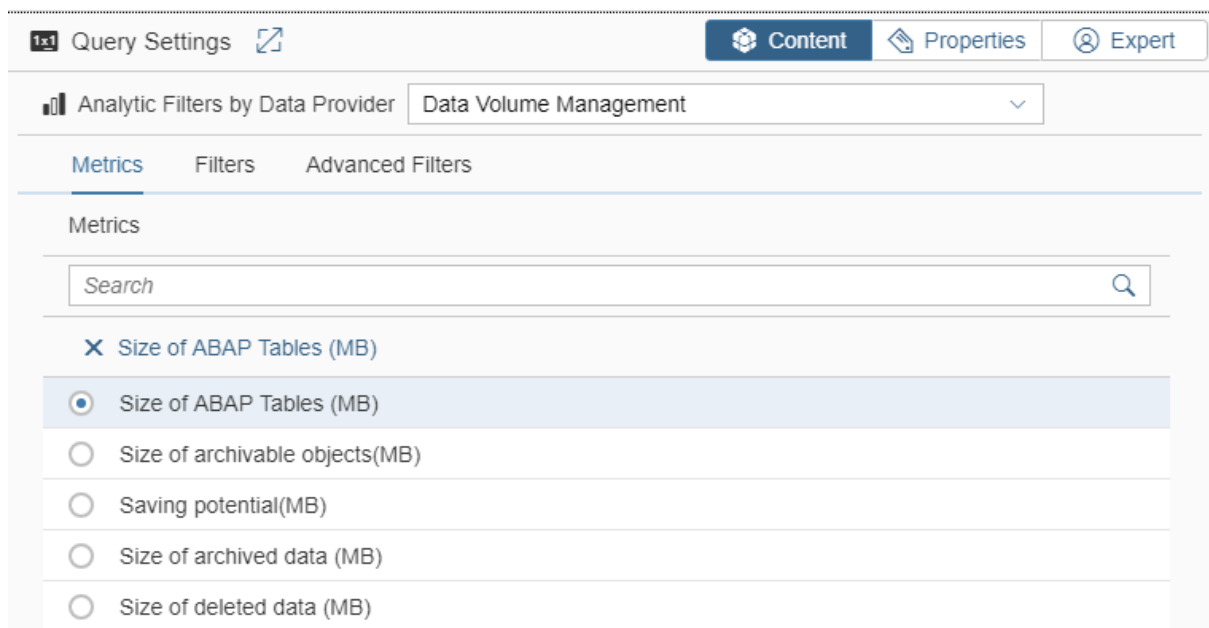


Figure 112: DVM data provider

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

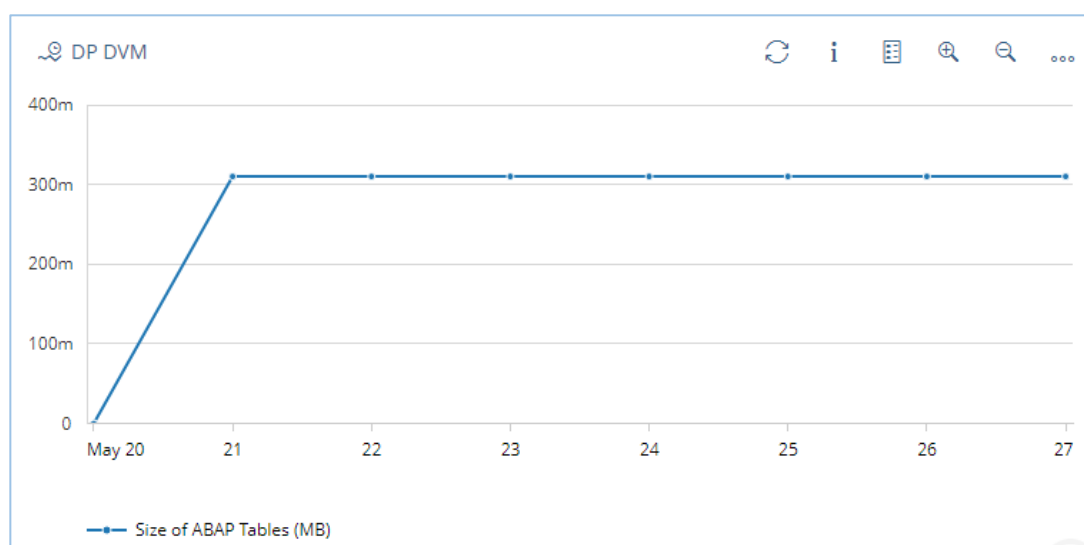


Figure 113: DVM DP detail view

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.

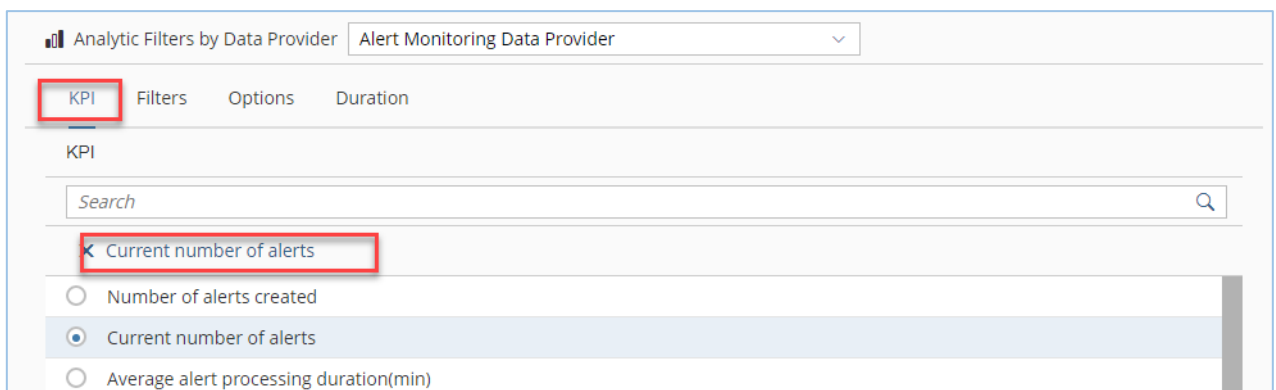


Figure 114: Gadget configuration (1)

Analytic Filters by Data Provider Alert Monitoring Data Provider

KPI **Filters** Options Duration

Managed Object	alert Name	Technical Scenario
<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>
<input type="checkbox"/> A4H-SELF MONITORING 1(RFC):A... <input type="checkbox"/> A4H-SELF MONITORING 2(HTTP):... <input type="checkbox"/> A4H-SELF MONITORING 3(GW):U... More [20 / 120]	<input type="checkbox"/> ABAP Aborted Job (ExMon) <input type="checkbox"/> ABAP Application Log Errors (Ex... <input type="checkbox"/> ABAP Central Service not available More [20 / 233]	<input type="checkbox"/> Advanced Monitoring <input type="checkbox"/> Business Intelligence, SBOP Mon... <input type="checkbox"/> Business Process Monitoring <input type="checkbox"/> Connection Monitoring <input type="checkbox"/> Data Readiness Monitoring

Figure 115: 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"/>
X Day <input type="radio"/> Minute <input type="radio"/> Hour <input checked="" type="radio"/> Day	X 2 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 More [20 / 27]	<input type="radio"/> Yes <input type="radio"/> No

Figure 116: Gadget configuration (3)

The generated query is:

Legend	Query
L1	/STDF/DP_MAI_ALERTING:KPI=Counter_Cur CONTEXT_ID=OTO~ABAP ALERT= TECHNICAL_SCENARIO= 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	https://idcsoft.wdf.sap.corp:44378/	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 117: 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.

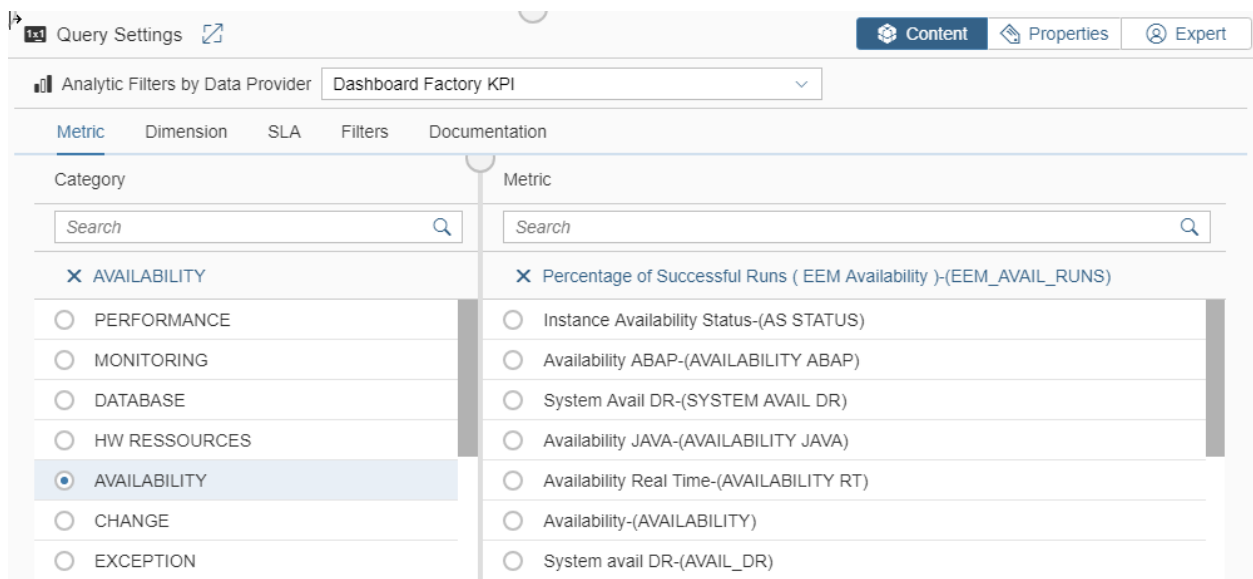


Figure 118: Gadget configuration (1)

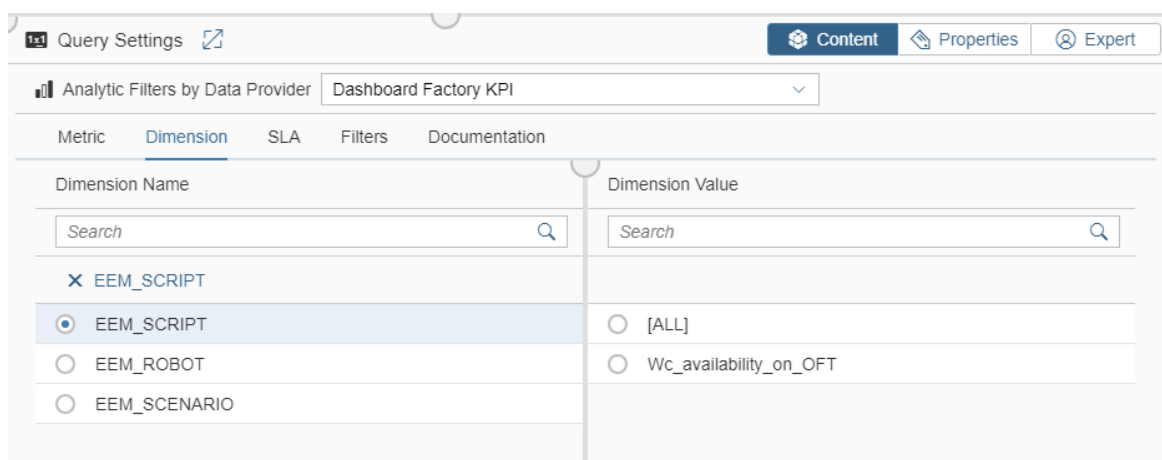


Figure 119: Gadget configuration (2)

Legend	Query
Selfmon	/STDF/DP_DF_KPI:Category=AVAILABILITY Metric=/STDF/CL_EEM_AVAIL_RUNS__1_0 Dim_name=OSMD_SCR 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

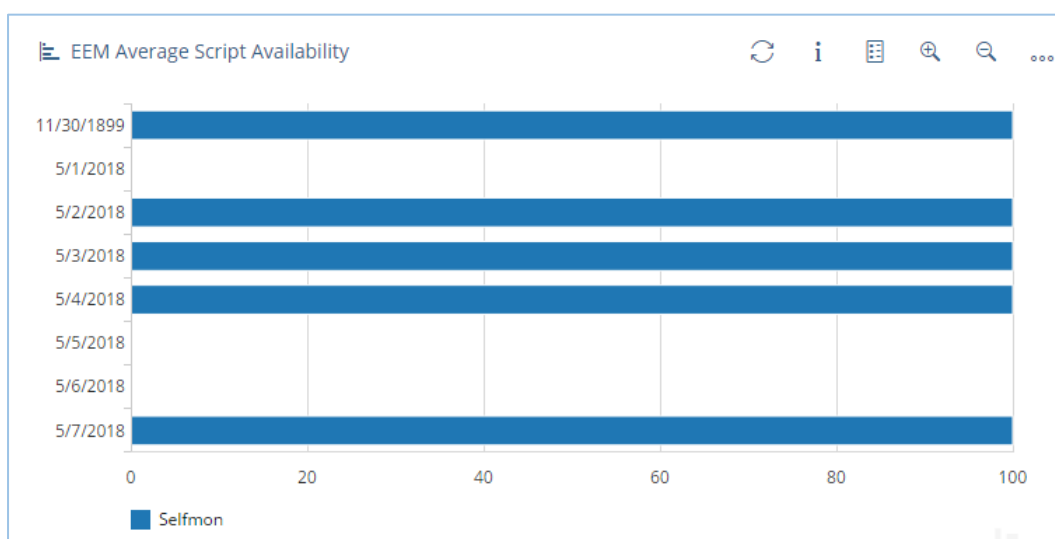


Figure 120: Detail View

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:

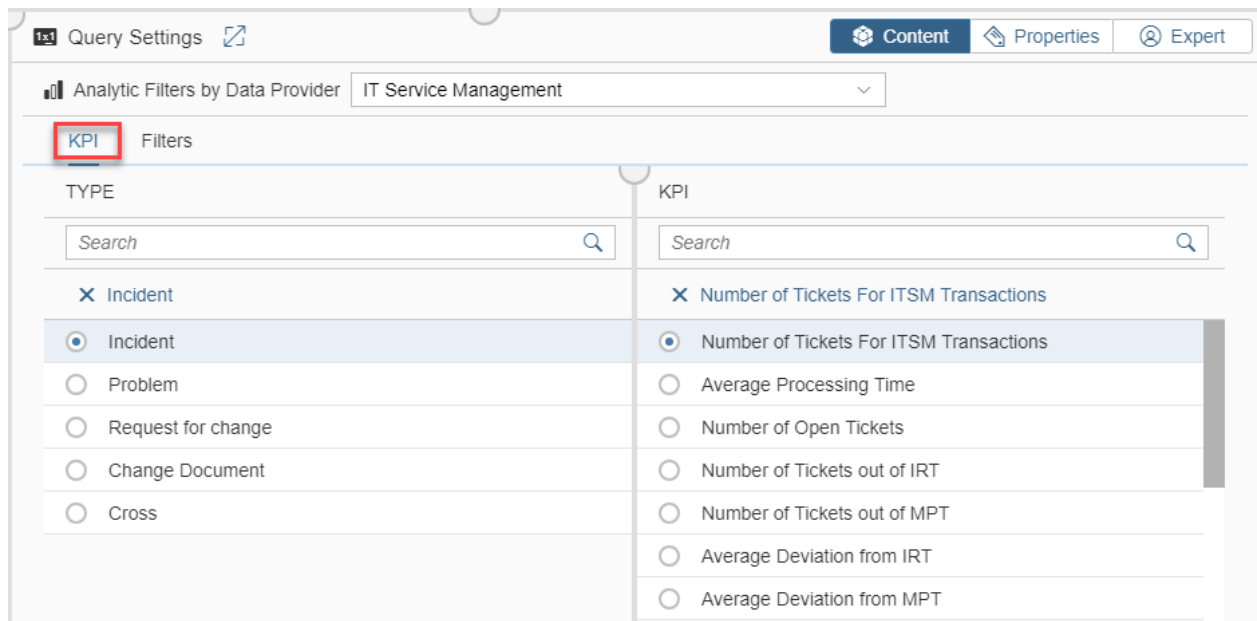


Figure 121: Gadget configuration (1)

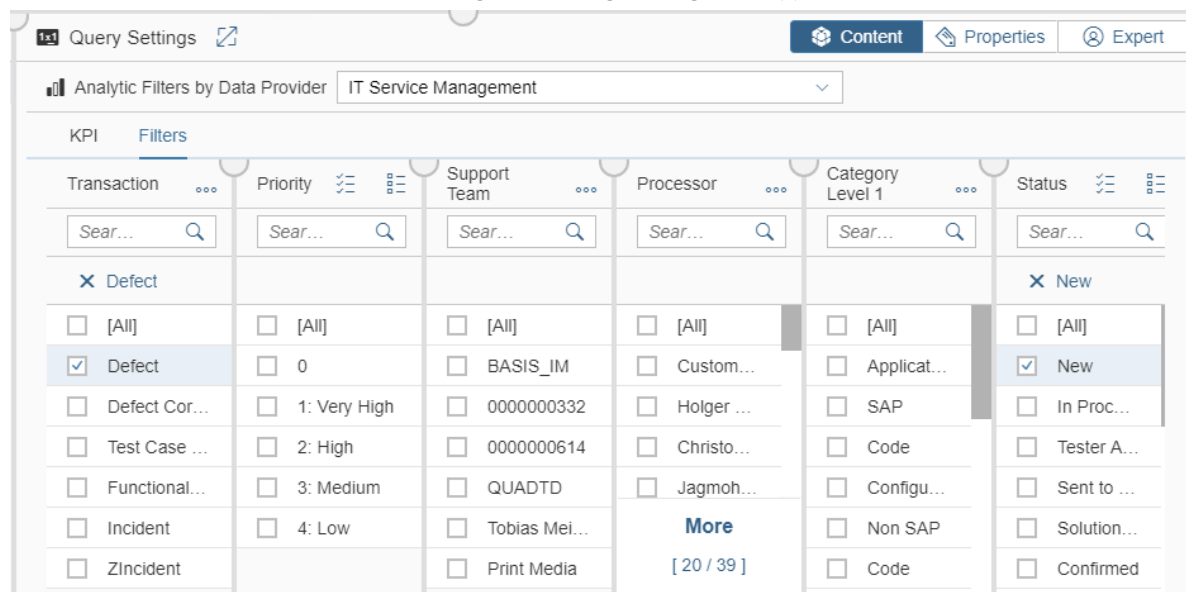


Figure 122: Gadget configuration (2)

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

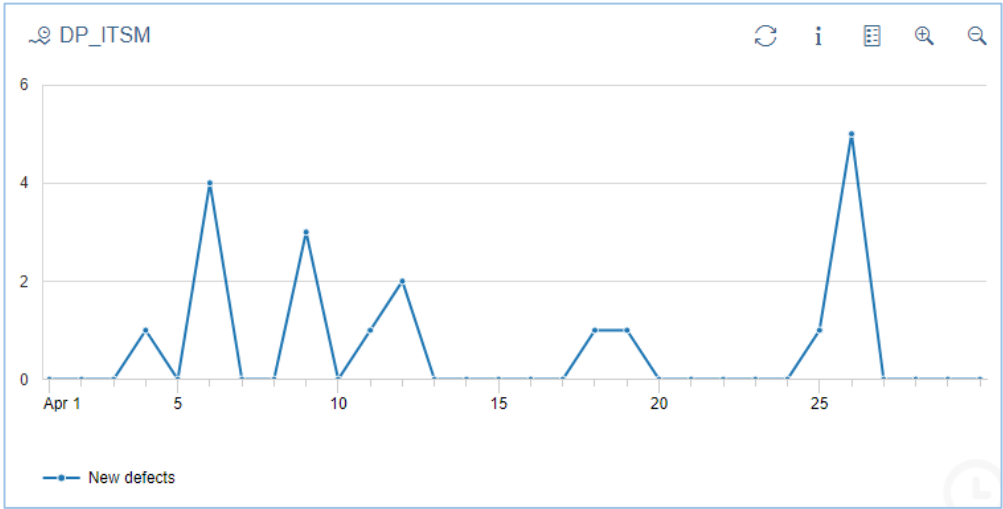


Figure 123: Detail View

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#

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

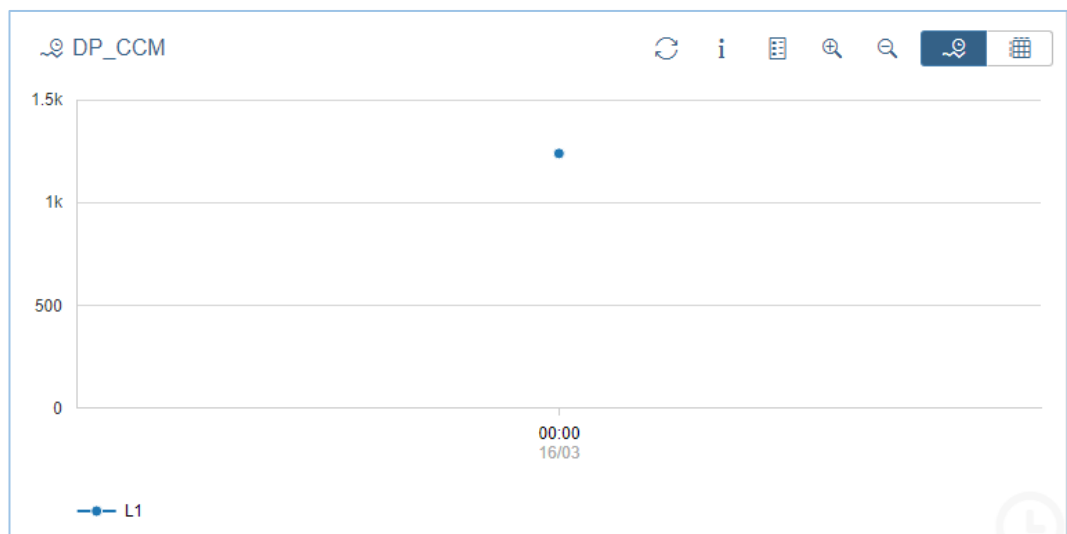


Figure 124: Gadget configuration

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 figure shows the 'Query Settings' dialog for 'Custom Code Management'. It has tabs for 'Content', 'Properties', and 'Expert'. Under 'Analytic Filters by Data Provider', the 'Metric_Instances' section is expanded. It contains a search bar and a list of metrics. The first metric, 'CC test test-Custom code objects with Quality issues', is selected and highlighted with a red box. Below it are four other metrics, each with a radio button. To the right, the 'Live Collect' section has a search bar and two radio buttons: 'True' (selected, highlighted with a blue bar and a red box) and 'False'.

Figure 125: 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:

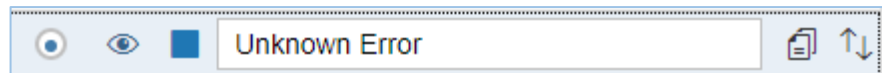


Figure 126: Legend

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:

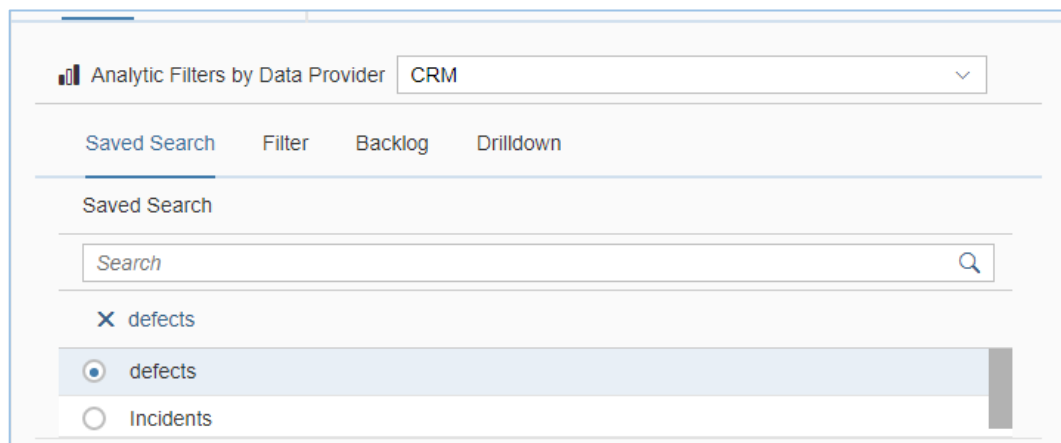


Figure 127: Gadget configuration (1)

Query Settings [🔗](#)

Content Properties Expert

Analytic Filters by Data Provider CRM

Saved Search **Filter** Backlog Drilldown

Filter

Search 🔍

☐ Creation date

☐ Last modification date

Figure 128: Gadget configuration (2)

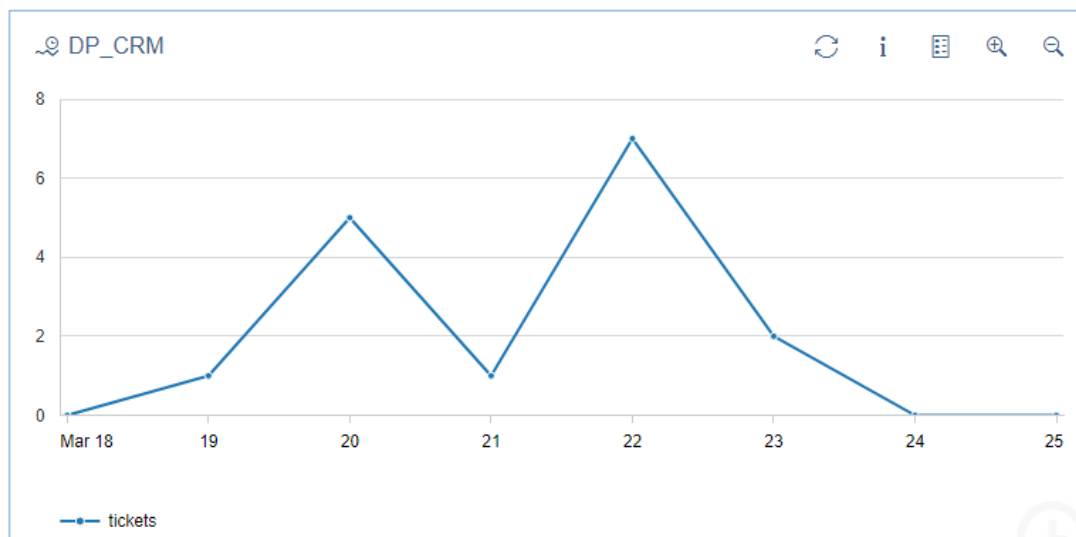


Figure 129: Detail view

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_TYPE:JAVA P=

2. Save the created gadget

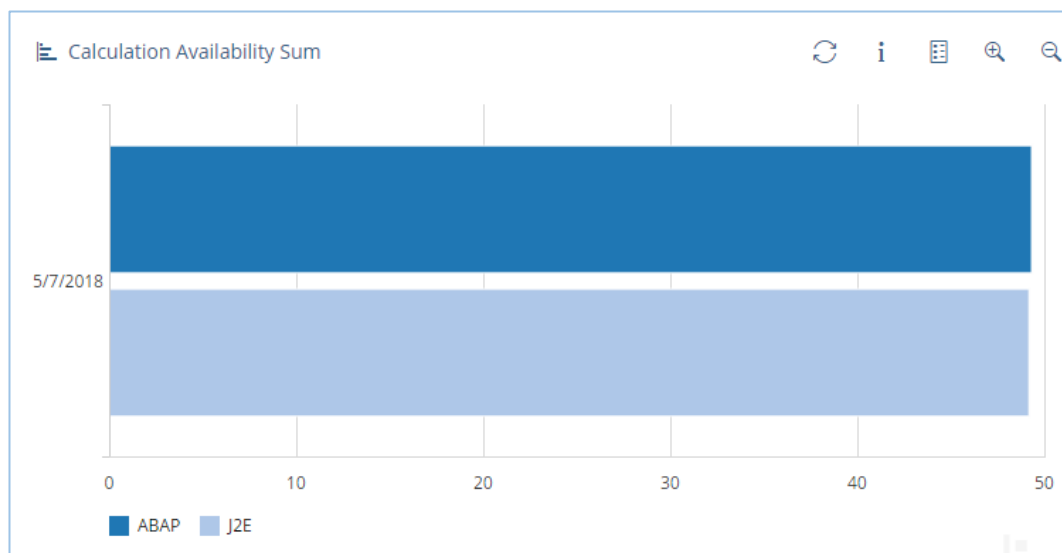


Figure 130: Detail view (ABAP and J2E availability)

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 Operand1=ABAP Operator=Add Operand2=J2E calcQuery=377

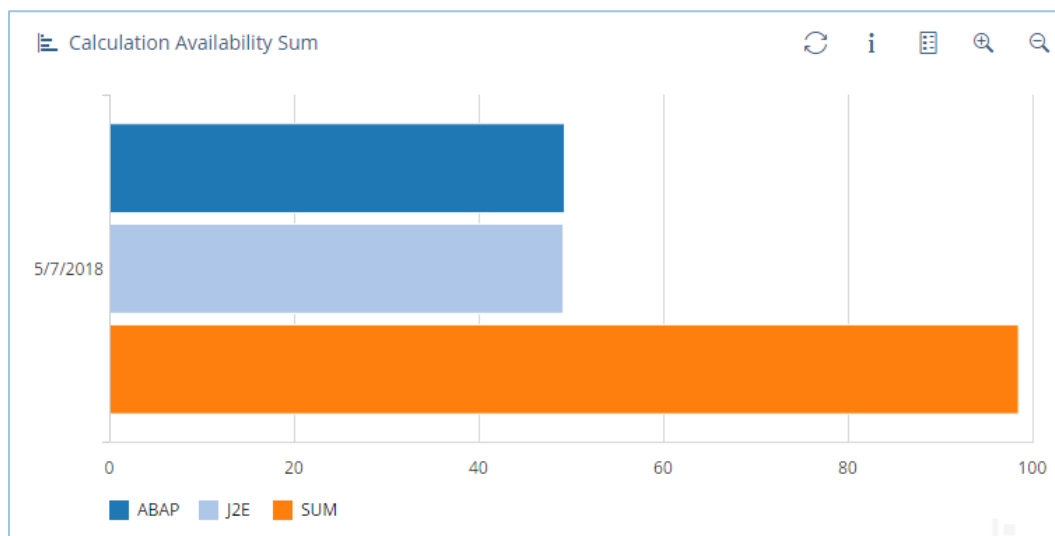


Figure 131: Detail view (ABAP, J2E availability and the sum)

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

1x1

Query Settings

Content

Properties

Expert

Analytic Filters by Data Provider

Data Consistency Management

KPI

Model Name	Comparison Name	Metrics
<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>
<div> <div>×</div> <div>CDC_DEMO_BUSINESS_PARTNER</div> </div> <div> <input type="radio"/> </div> <div> <input checked="" type="radio"/> </div> <div> <input type="radio"/> </div> <div> <input type="radio"/> </div> <div> <div>ZDC_DASHBOA</div> </div> <div> <div>ZODATA_TAC</div> </div>	<div> <div>×</div> <div>DEMO2</div> </div> <div> <input type="radio"/> </div> <div> <input checked="" type="radio"/> </div>	<div> <div>×</div> <div>Number of common objects with differences</div> </div> <div> <input type="radio"/> </div> <div> <input type="radio"/> </div> <div> <input checked="" type="radio"/> </div> <div> <input type="radio"/> </div> <div> <input type="radio"/> </div> <div> <input type="radio"/> </div> <div> <input type="radio"/> </div> <div> <input type="radio"/> </div>

Figure 132: 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 133 : 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:

The screenshot shows the 'Query Settings' gadget with the 'Filters' tab selected. The 'Analytic Filters by Data Provider' dropdown is set to 'Interface Channel Monitoring'. The 'Filters' tab is highlighted with a red box. The 'Metric' and 'Options' tabs are also visible. The 'Scenario' column has a search bar and a list of scenarios: 'Scenario for Self Monitoring' (checked), 'Connection Monitoring' (unchecked), and 'Scenario for Self Monitoring' (checked). The 'Channel' column has a search bar and a list of channels: 'A4H-SELF MONITORING 1 (RFC)' (checked), 'A4H-SELF MONITORING 2 (HTTP)' (unchecked), and 'A4H-SELF MONITORING 3 (GW)' (unchecked). The 'Interface' column has a search bar and a 'No data' message.

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 type="checkbox"/> A4H-SELF MONITORING 2 (HTTP)	
<input checked="" type="checkbox"/> Scenario for Self Monitoring	<input type="checkbox"/> A4H-SELF MONITORING 3 (GW)	

Figure 134: Configuration gadget (1)

The screenshot shows the 'Query Settings' gadget with the 'Metric' tab selected. The 'Analytic Filters by Data Provider' dropdown is set to 'Interface Channel Monitoring'. The 'Metric' tab is highlighted with a red box. The 'Filters' and 'Options' tabs are also visible. The 'Metric' column has a search bar and a list of metrics: 'Average RFC Response Time' (checked), 'Number of exceptions in SAP S&OP (Data Integration)' (unchecked), 'Single exceptions in S&OP (Data Integration)' (unchecked), 'qRFC Throughput Inbound' (unchecked), and 'qRFC Throughput Outbound' (unchecked). The 'Parameter' column has a search bar and a 'No data' message. A 'More' button and a pagination indicator '[20 / 231]' are visible at the bottom.

Metric	Parameter
<input checked="" type="checkbox"/> Average RFC Response Time	No data
<input type="checkbox"/> Number of exceptions in SAP S&OP (Data Integration)	
<input type="checkbox"/> Single exceptions in S&OP (Data Integration)	
<input type="checkbox"/> qRFC Throughput Inbound	
<input type="checkbox"/> qRFC Throughput Outbound	

[More](#)
[20 / 231]

Figure 135: 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=

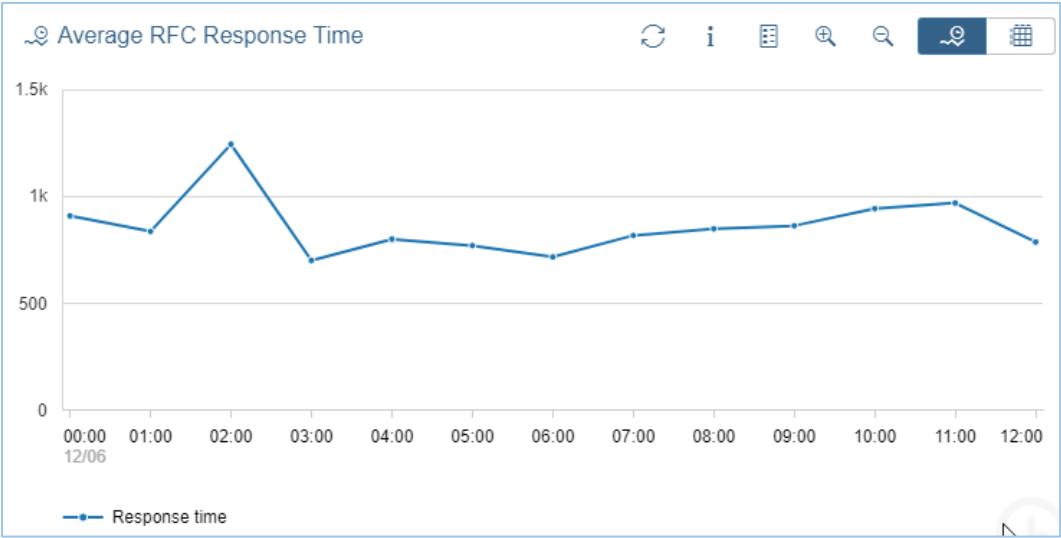


Figure 136: Detail view

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.

Analytic Filters by Data Provider: Early Watch Alert

General

Systems	Chapters	Tables
<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>
<p>× APE~JAVA</p> <p><input type="radio"/> A32~HANADB</p> <p><input type="radio"/> A33~HANADB</p> <p><input type="radio"/> A75~JAVA</p> <p><input type="radio"/> A87~JAVA</p> <p>More [20 / 495]</p>	<p>× EarlyWatch Alert Session</p> <p><input checked="" type="radio"/> EarlyWatch Alert Session</p> <p><input type="radio"/> Define Session Scope</p> <p><input type="radio"/> Detailed Session Scope for Syste...</p> <p><input type="radio"/> Landscape</p> <p>More [20 / 106]</p>	<p>No data</p>

Figure 137: 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 Systems	No	0020624476	S4H	07.05.2018	Green
199	0010000002555	SAP HANA Stability and Alerts	Yes	0020624476	S4H	07.05.2018	Warning

Figure 138: Detail view

Rating Mapping: Each color has a specified indication:

- Very critical → Red
- Critical → Yellow
- OK → Green
- No rating → Green
- Other → 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 screenshot shows the 'Analytic Filters by Data Provider' configuration interface for 'DataProvider For BP monitoring'. The 'Context' tab is active, displaying three filter categories: Solution, System Role, and Site. Each category has a search bar and a list of options with radio buttons. The selected options are: Corporate Solution - Operations() for Solution, Production System for System Role, and Global for Site.

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 139: Configuration gadget (1)

The screenshot shows the 'Analytic Filters by Data Provider' configuration interface for 'DataProvider For BP monitoring'. The 'Business Process' tab is active, displaying three filter categories: Scenario, Process, and Step. Each category has a search bar and a list of options with radio buttons. The selected options are: E2E_Order-to-Cash for Scenario, E2E_OTC_Sale-from-Stock Direct Sales for Process, and Sales Order Entry for Step.

Scenario	Process	Step
<input checked="" type="radio"/> E2E_Order-to-Cash	<input checked="" type="radio"/> E2E_OTC_Sale-from-Stock Direct Sales	<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 140: Configuration gadget (2)

Analytic Filters by Data Provider
DataProvider For BP monitoring

Context
Business Process
Metric

Monitoring Object

Metric

Search

Search

X Sales Documents Open - Test Object

X Open sales orders-001

☐ BPCC: Order to Cash - Create Sales Order

☒ Open sales orders-001

☐ ABAP Dumps Every Hour

☒ Sales Documents Open - Test Object

Figure 141: Configuration gadget (3)

The generated query is:

Legend	Query
Sales_doc	/STDF/DP_BPO:legend=Sales_doc COLOR=#1f77b4 OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTES= visible=true Solution=2aaVgTjN7jQRkBzcgxZ8hG_2aaVgTjN7jQRkBzcgxZ8hG System_Role=2aaVgTjN7jQRkBzcgxZ8hG_2aaVgTjN7jQRkBzcgxZ8hGP Site=2aaVgTjN7jQRkBzcgxZ8hG_2aaVgTjN7jQRkBzcgxZ8hGPSITE Scenario=2aaVgTjN7jQRkBzcgxZ8hG2aaVgTjN7jQRkBzcgxZ8hGP_02CcdQFd7kMDrA1N4pldDW2aaVgTjN7jQRkBzcgxZ8hGPSITE Process=2aaVgTjN7jQRkBzcgxZ8hG2aaVgTjN7jQRkBzcgxZ8hGP_2aaVgTjN7jQRkJvbEdBVW2aaVgTjN7jQRkBzcgxZ8hGPSITE Step=2aaVgTjN7jQRkBzcgxZ8hG2aaVgTjN7jQRkBzcgxZ8hGP_2aaVgTjN7jQRkJvbEdBVW2aaVgTjN7jQRkBzcgxZ8hGPSITE Context_id=1255A578FFF21EE7918D4048EDCC4DE6 Metric=Open sales orders_001-001

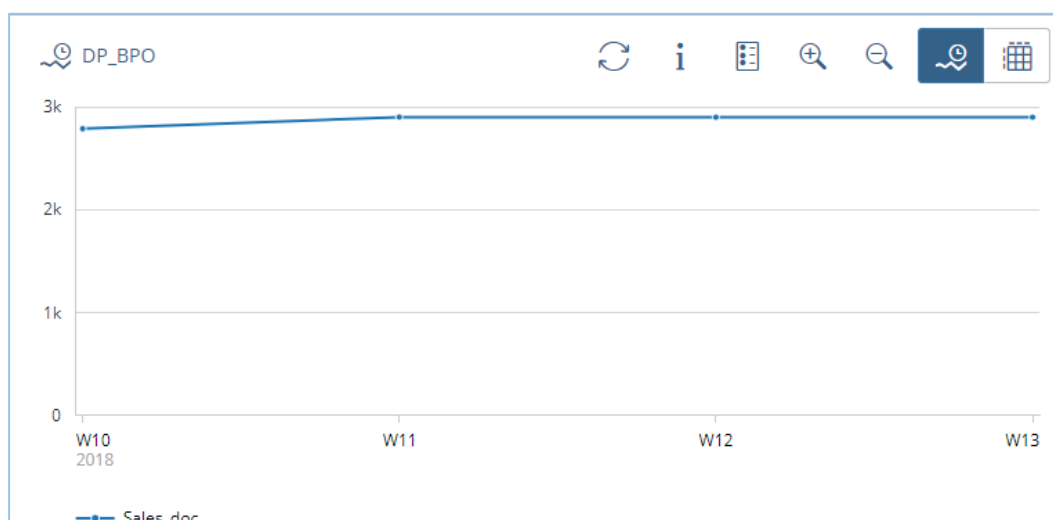


Figure 142: Detail view

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:

The screenshot shows the 'Query Settings' window with the 'Indicator' tab selected. The 'Analytic Filters by Data Provider' dropdown is set to 'Process Management'. The 'Indicator' tab is highlighted with a red box. The configuration is divided into three columns: 'Indicator', 'Solution', and 'Branch'. Each column has a search bar and a list of options. The 'Indicator' column has 'Documents' selected. The 'Solution' column has 'Acceptance Test Solution' selected. The 'Branch' column has 'Design' selected. A 'More' link is visible at the bottom of the 'Solution' column with a count of '[20 / 42]'.

Indicator	Solution	Branch
<input checked="" type="radio"/> Documents	<input checked="" type="radio"/> Acceptance Test Solution	<input checked="" type="radio"/> Design
<input type="radio"/> Documents By Creation date	<input type="radio"/> Corporate Solution_TO BE DELE...	<input type="radio"/> Production
<input type="radio"/> Documents by Last Changed date	<input type="radio"/> Release Dashbaord	<input type="radio"/> Maintenance
	<input type="radio"/> BatchImp	<input type="radio"/> Development
	More	<input checked="" type="radio"/> Design
	[20 / 42]	<input type="radio"/> Import
		<input type="radio"/> Operation

Figure 143: Gadget Configuration (1)

The screenshot shows the 'Query Settings' window with the 'Attributes' tab selected. The 'Analytic Filters by Data Provider' dropdown is set to 'Process Management'. The 'Attributes' tab is highlighted with a red box. The configuration is divided into five columns: 'Types', 'Attribute', 'Object Types', 'Status', and 'User'. Each column has a search bar and a list of options. The 'Types' column has 'Functional Sp...' selected. The 'Attribute' column has 'COUNTRY' and 'LANGUAGE' selected. The 'Object Types' column has 'Test Steps <R...' selected. The 'Status' column has 'Copy Editing', 'In Progress', 'Released', and 'Review' selected. The 'User' column has 'New organiza...' selected. A 'More' link is visible at the bottom of the 'Object Types' column with a count of '[20 / 189]' and another 'More' link at the bottom of the 'User' column with a count of '[20 / 3,073]'.

Types	Attribute	Object Types	Status	User
<input checked="" type="radio"/> Functional Sp...	<input checked="" type="radio"/> COUNTRY	<input checked="" type="radio"/> Test Steps <R...	<input type="checkbox"/> Copy Editing	<input checked="" type="radio"/> New organiza...
<input type="radio"/> Functional Sp...	<input checked="" type="radio"/> LANGUAGE	<input type="radio"/> Test Steps <O...	<input type="checkbox"/> In Progress	<input type="radio"/> MTE Organiz...
<input type="radio"/> Functional Sp...		<input type="radio"/> Operations	<input type="checkbox"/> Released	<input type="radio"/> MTE Organiz...
<input type="radio"/> Use Case		<input type="radio"/> BC-Set <Conf.>	<input type="checkbox"/> Review	<input type="radio"/> Org Unit 1
<input type="radio"/> Technical Des...		<input type="radio"/> Document (B...		<input type="radio"/> Org Unit 2
<input type="radio"/> Configuration ...		More		More
<input type="radio"/> Single Functio...		[20 / 189]		[20 / 3,073]

Figure 144: 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 145: 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
More [20 / 108]	More [20 / 59]

Figure 146: Gadget Configuration (4)

The generated query is:

Legend	Query
nbr doc	/STDF/DP_SOLDOC:COLOR=#1f77b4 legend=nbr doc OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_ATTRIBUTE S= visible=true INDICATOR=2 SOLUTION=051MZfr17jQGr3ihYVhm0W BRANCH=051MZfr1 7jQGr3ihYVhm0W OBJECT_TYPES= TYPES= STATUS= USER= ATTRIBUTE= ATTRIBUTE _V= SCOPE= ROLE= SITES= TYPE= LIBRARIES= PROCESS=

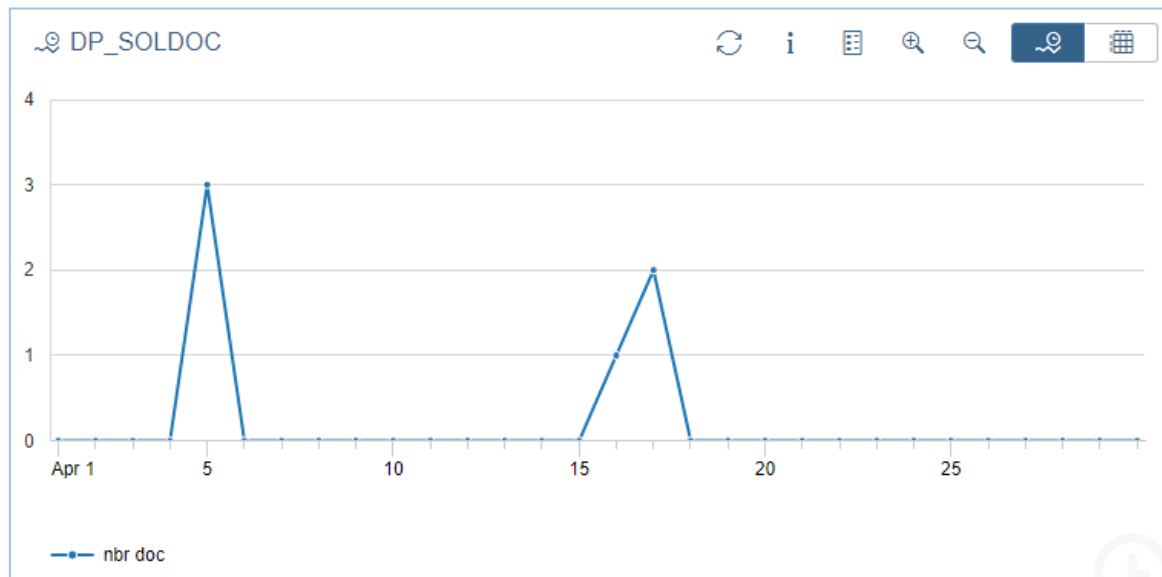


Figure 147: Detail View

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:

Document	Status	Target Status	Classification	Projects	Sub Projects	Wave	Sprint
Search	Search	Sea...
<input checked="" type="radio"/> Work Packages <input type="radio"/> Work Items <input type="radio"/> Business Re...	<input checked="" type="checkbox"/> Created <input type="checkbox"/> Scoping <input type="checkbox"/> Scope Finali... <input type="checkbox"/> Scope Exten... <input type="checkbox"/> Rejected <input type="checkbox"/> Postponed <input type="checkbox"/> To Be Devel...	<input type="radio"/> Created <input type="radio"/> Scoping <input type="radio"/> Scope ... <input type="radio"/> Scope ... <input type="radio"/> Rejected <input type="radio"/> Postpo... <input type="radio"/> To Be ...	<input type="radio"/> WRIC... <input type="radio"/> Fit <input type="radio"/> GAP <input type="radio"/> Non-F...	<input type="radio"/> ... <input type="radio"/> ... <input type="radio"/> ... <input type="radio"/> ... <input type="radio"/> M... <input type="radio"/> [2...	No data	No data	No data

Figure 148: Gadget Configuration (1)

Query Settings [🔗](#) Content Properties Expert

Analytic Filters by Data Provider Build

Parameters **Metric** Category

Metric	Open	Closed
Search	Search	Search
<input checked="" type="radio"/> Number <input type="radio"/> Lead Time <input type="radio"/> Snapshot <input type="radio"/> Progress	<input type="checkbox"/> Created <input type="checkbox"/> Scoping <input type="checkbox"/> Scope Finalized <input type="checkbox"/> Scope Extension <input type="checkbox"/> Rejected <input type="checkbox"/> Postponed <input type="checkbox"/> To Be Developed	<input type="checkbox"/> Created <input type="checkbox"/> Scoping <input type="checkbox"/> Scope Finalized <input type="checkbox"/> Scope Extension <input type="checkbox"/> Rejected <input type="checkbox"/> Postponed <input type="checkbox"/> To Be Developed

Figure 149: 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
Search	Search	Search	Search
<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... More [20 / 29]	No data	No data	No data

Figure 150: 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=

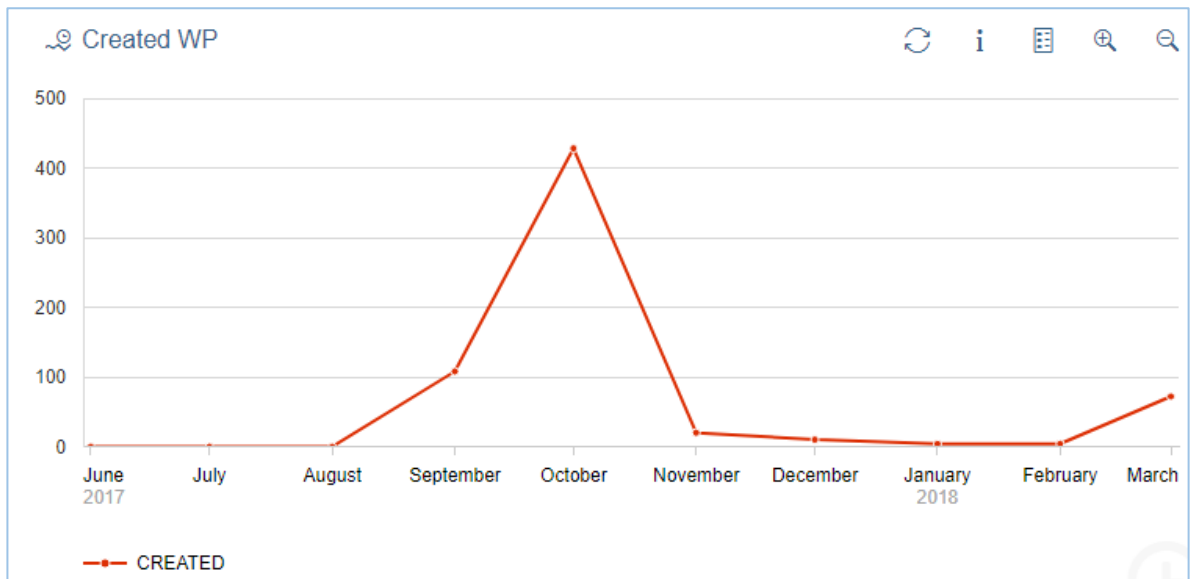


Figure 151: Detail View

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:

Query Settings [🔗](#) Content Properties Expert

Analytic Filters by Data Provider: Security (Configuration Validation) ▼

Report Selection

CV_Report	System	Metrics	Compliance
<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>
<ul style="list-style-type: none"> <input checked="" type="radio"/> Critical Basis Authorizations <input type="radio"/> ABAP Profile Parameters <input type="radio"/> Failed Transports <input type="radio"/> FAILED_TRANSPORTS_S4H <input type="radio"/> Handling of ABAP Default U... <input type="radio"/> No use of critical authorizati <input type="radio"/> Protection of Password Has... <input type="radio"/> UME Parameters 	<ul style="list-style-type: none"> <input type="checkbox"/> A4H <input type="checkbox"/> S4H 	<ul style="list-style-type: none"> <input type="checkbox"/> USERS 	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> ITEM_NOT_FOUND <input type="checkbox"/> NOT_VALUATED

Figure 152: Gadget Configuration (1)

Query Settings
Content
Properties
Expert

Analytic Filters by Data Provider
Security (Configuration Validation)

Report
Selection

Selection

Search

X Value

☒ Value

☐ Rating

Figure 153: 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=200 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 color_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 154: 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 [🔗](#) Content Properties Expert

Analytic Filters by Data Provider FRUN

Configuration Alerts Filters

System Alias

× FRUNLMBFQ4

☐ [Default]

☒ FRUNLMBFQ4

Figure 155: Gadget Configuration (1)

Query Settings [🔗](#) Content Properties Expert

Analytic Filters by Data Provider FRUN

Configuration **Alerts** Filters

Alerts	Category	Rating
<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>
× AlertsByCategory	× Configuration × Availability ...	
<input checked="" type="radio"/> AlertsByCategory	<input type="checkbox"/> [All]	<input type="checkbox"/> [All]
	<input checked="" type="checkbox"/> Availability	<input type="checkbox"/> Critical
	<input checked="" type="checkbox"/> Configuration	<input type="checkbox"/> Warning
	<input checked="" type="checkbox"/> Exceptions	
	<input type="checkbox"/> Performance	
	<input type="checkbox"/> Self-Monitoring	

Figure 15: 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
<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>		<input type="text" value="Search"/>
<input type="checkbox"/> [All]	<input type="checkbox"/> [All]	<input type="checkbox"/> [All]	× Undefined		× Undefined ...
<input type="checkbox"/> 789	<input type="checkbox"/> 123456781...	<input type="checkbox"/> .NET System	<input checked="" type="checkbox"/> [All]		<input checked="" type="checkbox"/> [All]
<input type="checkbox"/> ABC	<input type="checkbox"/> AMS	<input type="checkbox"/> Apache To...	<input checked="" type="checkbox"/> Undefined		<input checked="" type="checkbox"/> Undefined
<input type="checkbox"/> ADM	<input type="checkbox"/> BER	<input type="checkbox"/> Application ...	<input type="checkbox"/> Production ...		<input type="checkbox"/> Planned
<input type="checkbox"/> CID	<input type="checkbox"/> BLN	<input type="checkbox"/> Application ...	<input type="checkbox"/> Quality Ass...		<input type="checkbox"/> Ordered
More	More	More	<input type="checkbox"/> Developme...		<input type="checkbox"/> Installed
[20 / 41]	[20 / 27]	[20 / 23]	<input type="checkbox"/> Maintenanc...		<input type="checkbox"/> Active
			<input type="checkbox"/> Demo System		<input type="checkbox"/> Inactive

Figure 157: 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 158: 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.

1x1

Query Settings

Content

Properties

Expert

Analytic Filters by Data Provider

Business Process Analytics

General

panel

Search

VC_Optimization in PtP

Company Code_Optimization in PtP

Trend_O2C_DSO

Trend_Optimization in PtP

VC_O2C_DSO

VC_Optimization in PtP

Figure 159: 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

DP_BPA

	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 160: 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"/>	<input type="text" value="Search"/>	<input type="text" value="Search"/>
<input checked="" type="radio"/> Build 2 AT	<input checked="" type="radio"/> Wave 1	<input type="checkbox"/> E_TP_1
<input type="radio"/> Build 1 AT	<input type="radio"/> Wave 2	<input type="checkbox"/> TP_OST200_WILLIAMS
<input type="radio"/> Master AT		
More		
[20 / 21]		

Figure 161: Configuration Gadget (1)

Query Settings
Content
Properties
Expert

Analytic Filters by Data Provider
Test

Parameters
Metric

Metric

Search

X Number of test cases

☐ Automation Rate

☐ Test Coverage

☐ Test Execution

☐ Automatic Test Execution

☒ Number of test cases

Figure 162: 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 163: 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

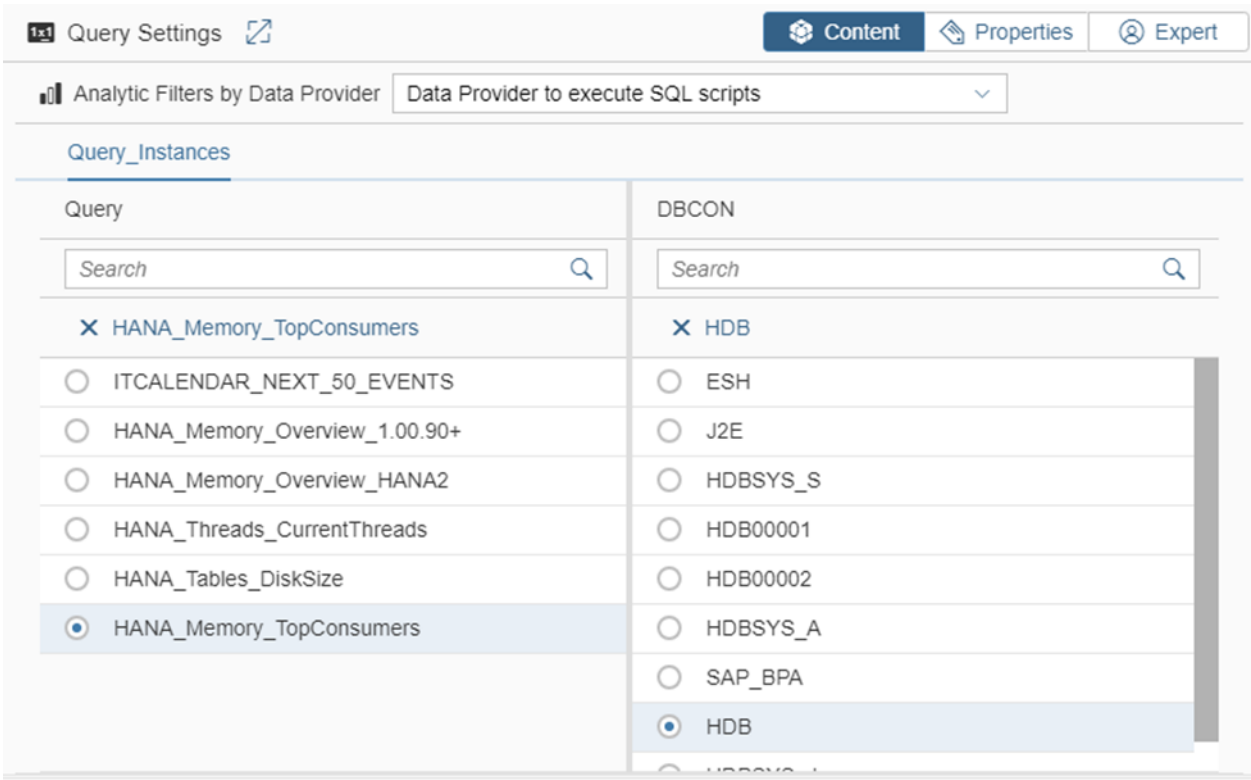


Figure 164: Configuration Gadget

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	4.4
7	any	any	ROW	Row Store (Tables)	any	6681	256.00	3.3
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 165: 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

Query Settings

Content Properties Expert

Analytic Filters by Data Provider

TRANSACTIONS

TRANSACTIONS

DRILLDOWN

SYSTEM	TRANSACTION	REPORT	TASK	METRIC
<div>Search</div> <div> <div>X A4H</div> <div> <div>S4H</div> <div>A4H</div> </div> </div>	<div>Search</div> <div> <div>SJOBREPO</div> <div>SESSION_M...</div> <div>RZ10</div> <div>RZ11</div> <div>ST22</div> <div>More</div> <div>[20 / 500]</div> </div>	<div>Search</div> <div> <div>X RFC</div> <div> <div><AD_MSBUF></div> <div>RFC</div> <div>AutoABAP</div> <div>SCMON_COL...</div> <div><DELAY - ab_...</div> <div>More</div> <div>[20 / 500]</div> </div> </div>	<div>Search</div> <div> <div>X RFC</div> <div> <div>Update</div> <div>RFC</div> <div>AutoABAP</div> <div>Batch</div> <div>DELAY</div> <div>More</div> <div>[20 / 28]</div> </div> </div>	<div>Search</div> <div> <div>TOTAL_RESP_T...</div> <div>AVG_RESP_TIME</div> <div>AVG_CPU_TIME</div> <div>AVG_DB_TIME</div> <div>AVG_WAIT_TIME</div> <div>AVG_ROLL_WAI...</div> <div>NB_DIALOG_ST...</div> </div>

Figure 166: Configuration Gadget

Legend	Query
Transaction Performance	/STDF/DP_TRANSACTION:COLOR=#1f77b4 legend=Transaction Performance OCC_JUMP_IN= SLA= TREND= G2Y= Y2R= COLOR_RATING= DISPLAY_AT TRIBUTES= visible=true SYSTEM=A4H TRANSACTION= REPORT=RFC TASK=RFC,Updat e,Batch,DELAY,HTTP,AutoABAP,HTTPS,Dialog METRIC=AVG_ROLL_WAIT_TIME DRILLDO WN=TRANSACTION display_value=false

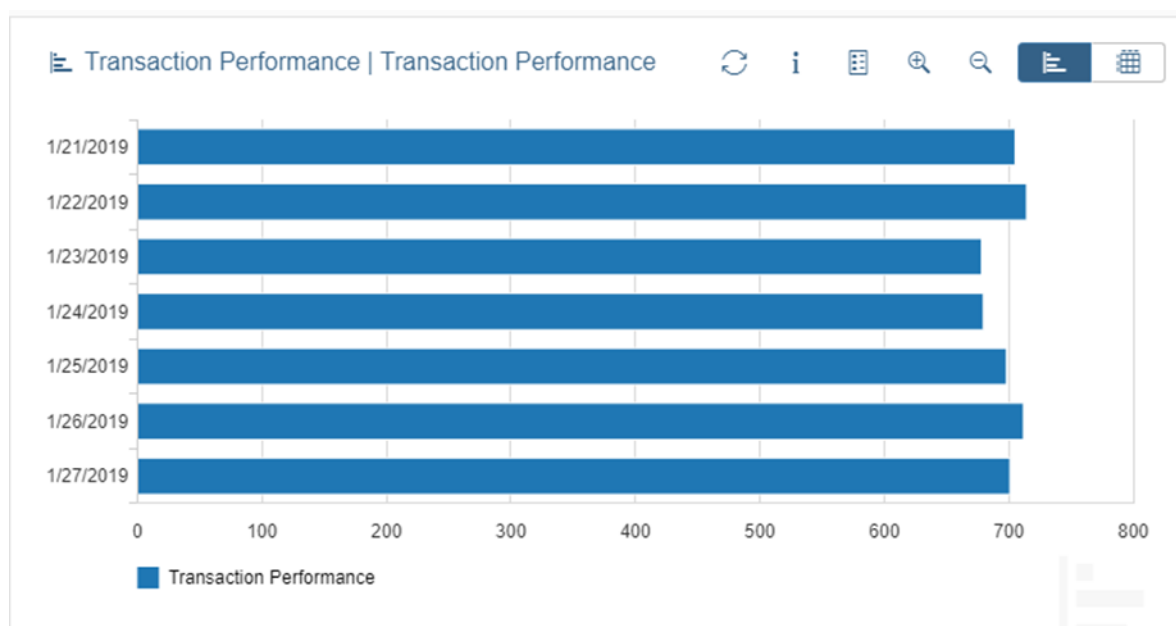


Figure 167: Detailed View

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

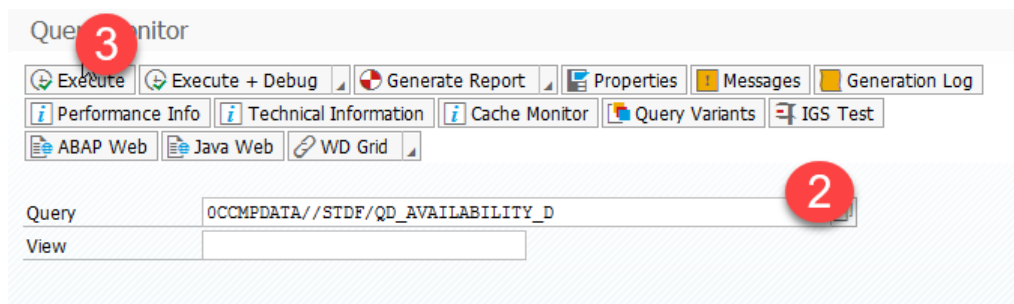


Figure 168: Configuration Steps 1 and 2

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

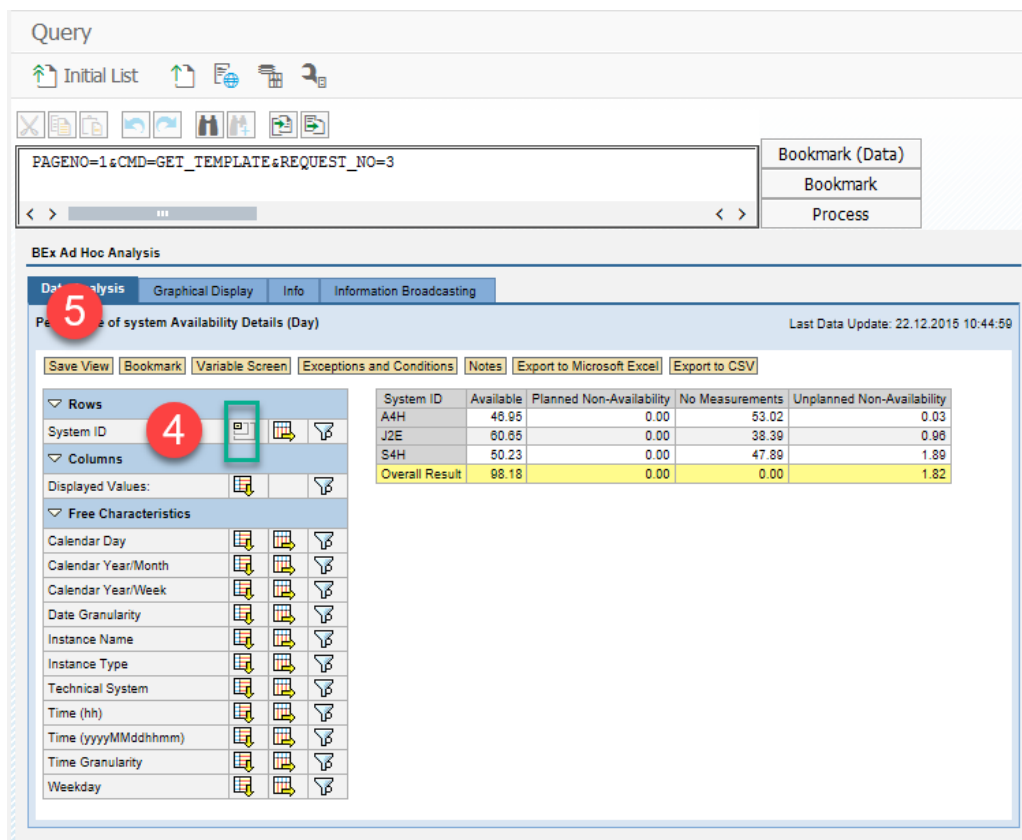


Figure 169: Configuration Steps 3 and 4

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 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 170: 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 interface for a gadget. 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 radio button next to it, which is selected. This row is highlighted with a green border.

Figure 171: 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 172: 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 SE11Transaction code in the SAP Logon and tape **/STDF/DP_TAB_SRC** in the database table.
2. Click on the button change

The screenshot shows the 'ABAP Dictionary: Initial Screen' with the following configuration:

- Database table** (selected): **/STDF/DP_TAB_SRC** (marked with a red circle 1)
- View**: (empty)
- Data type**: (empty)
- Type Group**: (empty)
- Domain**: (empty)
- Search help**: (empty)
- Lock object**: (empty) (marked with a red circle 2)

At the bottom, there are three buttons: **Display**, **Change** (with a pencil icon), and **Create** (with a document icon).

Figure 173: Configuration Step 1 and 2

3. Click on the buttons contents.

Dictionary: Display Table

Transparent Table /STDF/DP_TAB_SRC Active **3**

Short Description /STDF/OCC_DP_TABLE_SOURCES

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 174: 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 175: Configuration Step 4

5. 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 176: 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 STAMP FORMAT

Table /STDF/DP_TAB_SRC Insert	
Reset	
ALIAS NAME	<input type="text"/>
RFC	<input type="text"/>
TABLE NAME	<input type="text"/>
TIMESTAMP FIELD	<input type="text"/>
DIMENSIONS FIELDS	<input type="text"/>
KEYFIGURES FIELDS	<input type="text"/>
TIMESTAMP FORMAT	<input type="text"/>

Figure 177: 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_TICKETS
TIMESTAMP FIELD	CALDAY
DIMENSIONS FIELDS	APPLICATION, SEVERITY
KEYFIGURES FIELDS	COUNTER
TIMESTAMP FORMAT	YYYYMMDDHHMMSS

Figure 178: 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

[🔍](#)

☒ DEMO_APP_TICKETS

☐ OFT_UCONRFMCALLERATT

☐ OTO_UCONRFMCALLERATT

☐ S4H277_UCONRFMCALLERATT

Figure 179: Configuration Gadget (1)

Query Settings [🔗](#) Content Properties Expert

Analytic Filters by Data Provider Table Data Provider

Alias **Dimensions** Key figure Options

DIMENSIONS	APPLICATION	SEVERITY
<input type="text" value="Search"/> 🔍	<input type="text" value="Search"/> 🔍	<input type="text" value="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 180: Configuration Gadget (2)

1x1
Query Settings

Content
Properties
Expert

Analytic Filters by Data Provider
Table Data Provider

Alias
Dimensions
Key figure
Options

Key figures

Search

COUNTER

Figure 181: Configuration Gadget (3)

1x1
Query Settings

Content
Properties
Expert

Analytic Filters by Data Provider
Table Data Provider

Alias
Dimensions
Key figure
Options

Aggregation
Drilldown

Search
Search

Average
Maximum
Sum
APPLICATION
SEVERITY

Figure 182: 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

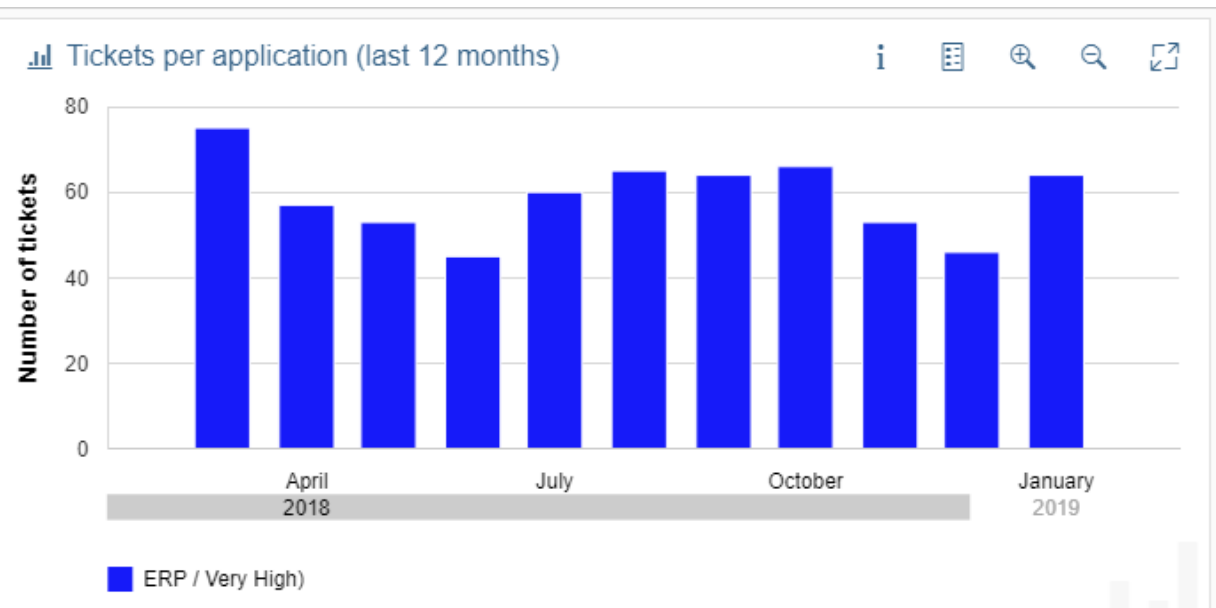


Figure 183: Detailed View

5.29 Data Providers Status

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

	New in SP03	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_SOLDDOC		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		

6 Renderers

6.1 Line Chart

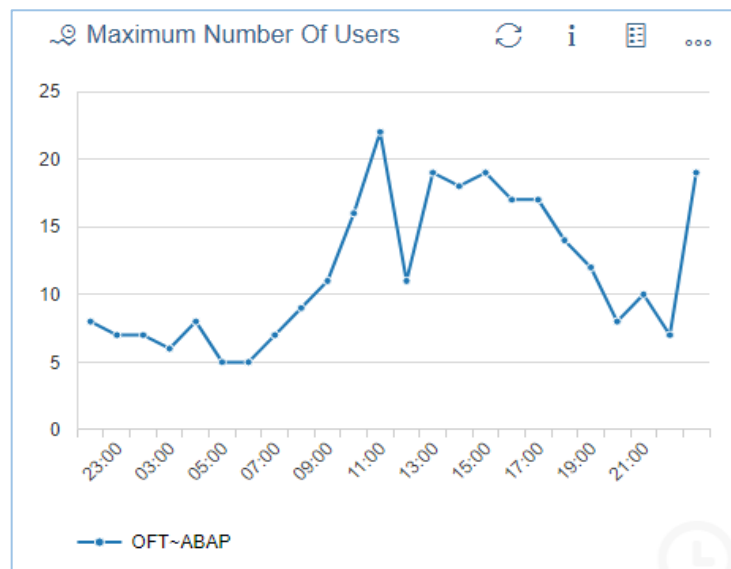


Figure 184: Line Chart

6.2 Bar Chart

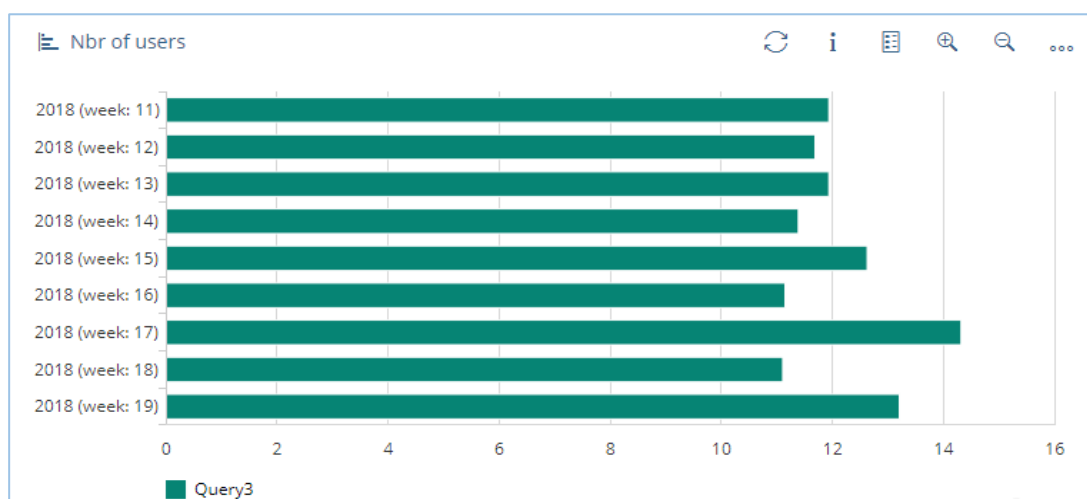


Figure 185: Bar Chart

6.3 Column Chart



Figure 186: 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.

Figure 187: 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 188: Color Categories Detailed View

6.4 Line Column

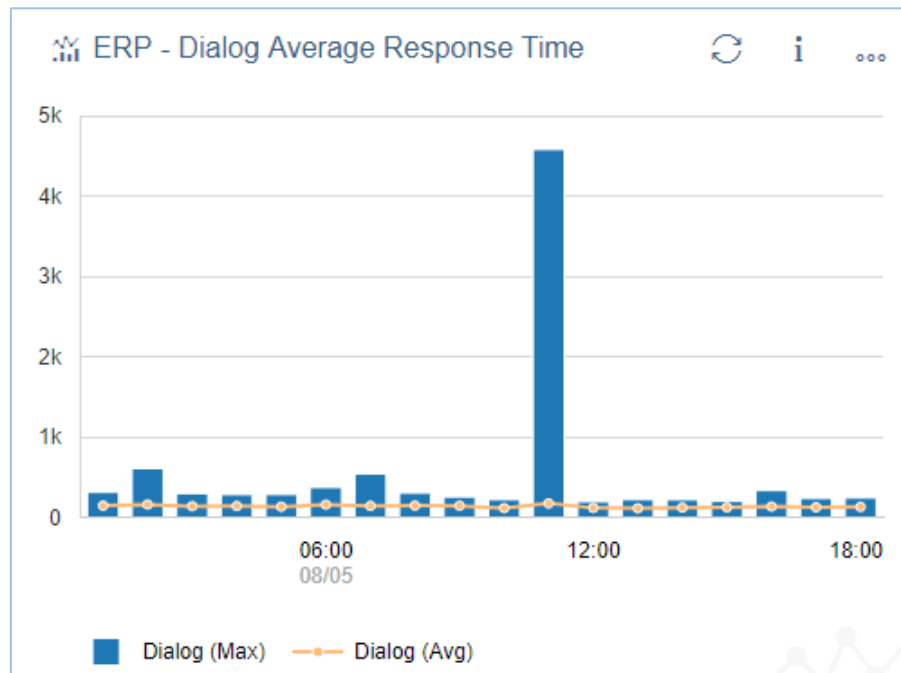


Figure 189: Line Column

6.5 Pie Chart

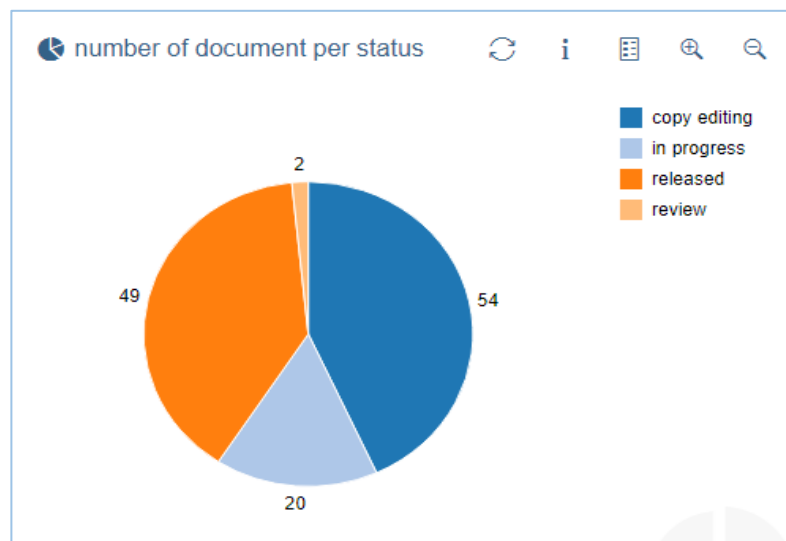


Figure 190: Pie Chart

6.6 Donut Chart

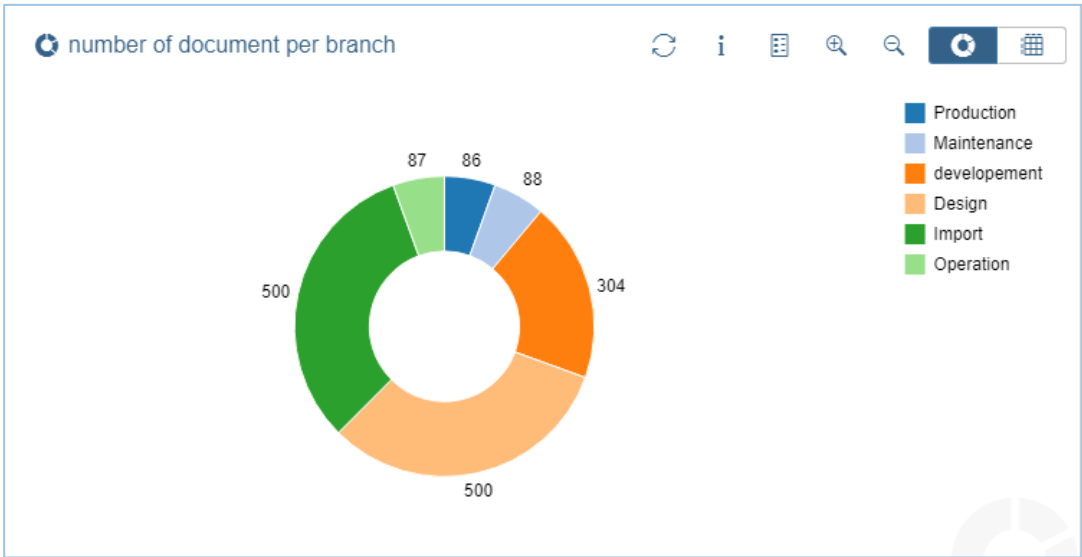


Figure 191: Donut Chart

6.7 Dual Bar Chart

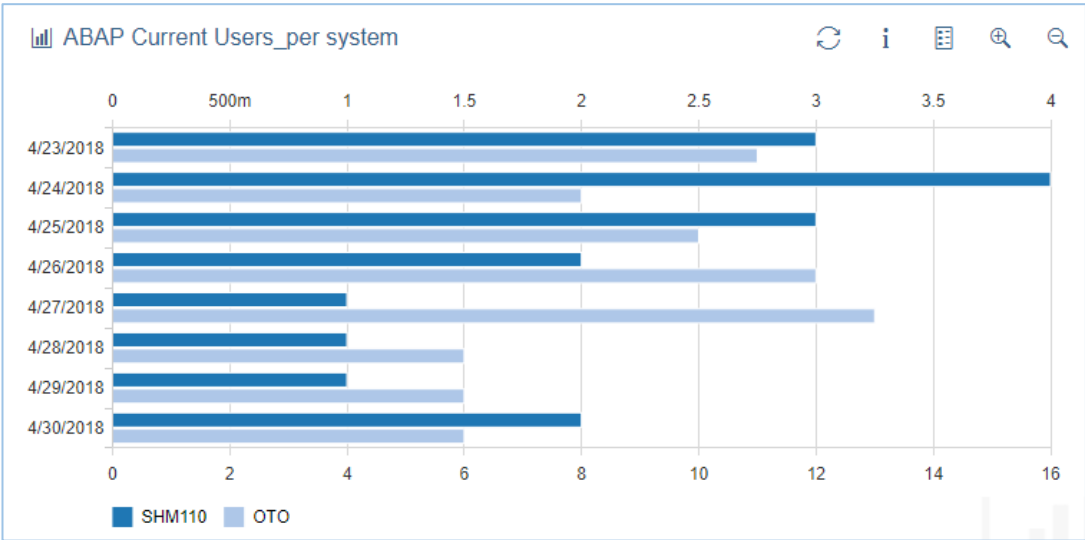


Figure 192: Dual Bar Chart

6.8 Dual Line

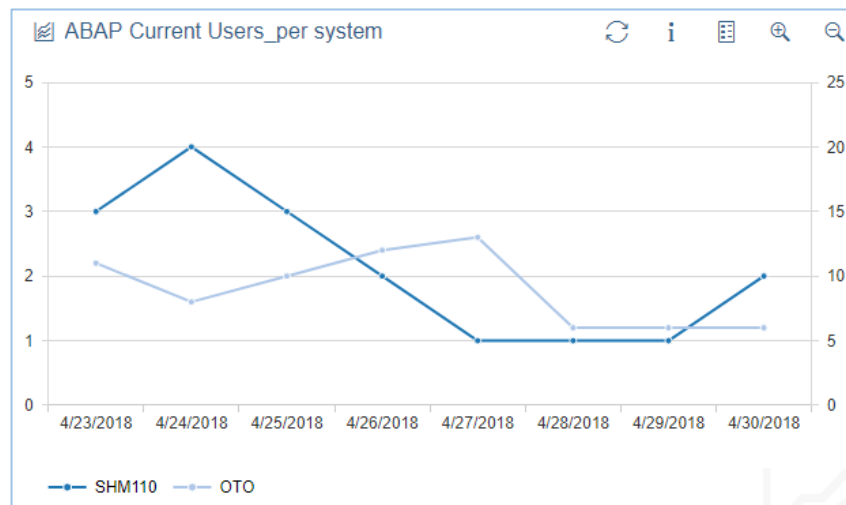


Figure 193: Dual Line Chart

6.9 Dual Line-column

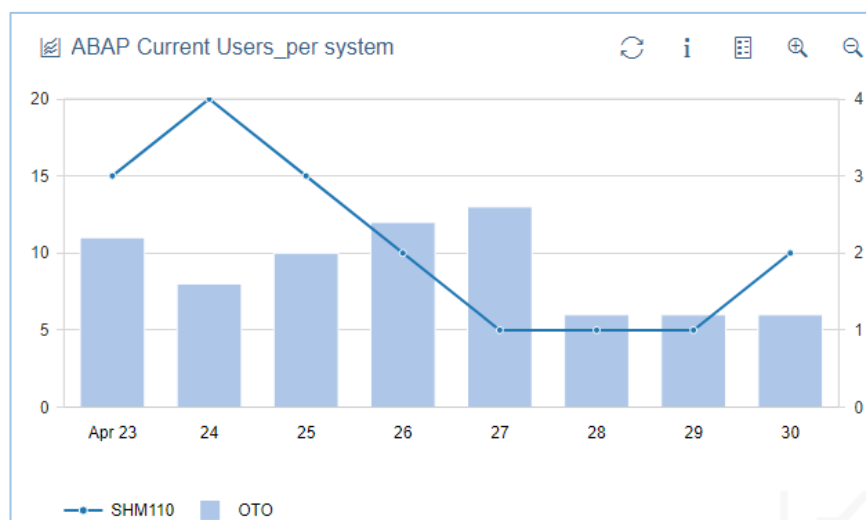


Figure 194: Dual Line-column

6.10 Alert Table

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

Figure 195: 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

Back

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 ...	Messag...	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 196: 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				
	GUID	PROCESS_TYPE	PROCESS_TYPE_TXT	OB
20	5CF3FCDCEC001EE88EF818302	S1DM	Defect	8000000928
21	5CF3FCDCEC001EE88EB4F8A3	S1DM	Defect	8000000927
22	5CF3FCDCEC001EE88EB44E62	S1DM	Defect	8000000926
23	5CF3FCDCEC001EE88EB3F7B6	S1DM	Defect	8000000925
24	5CF3FCDCEC001EE88EB3E043	S1DM	Defect	8000000923
25	5CF3FCDCEC001EE88EAF3769	S1DM	Defect	8000000922
26	5CF3FCDCEC001EE88EAF0766	S1DM	Defect	8000000921
27	5CF3FCDCEC001EE88E8510657	S1DM	Defect	8000000909

Figure 197: 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>

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...:

Guid>GUID CRM,PROCESS_TYPE>Process Type

Filter Values:

Color Categories:

Figure 198: 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

Defects			
	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 199: 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:
Color Categories:

<Object>: <8000026353>, <8000026354>

Figure 200: Use of Display Filter Values property

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 201: 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:

Description:

Renderer:

Figure 202: 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.

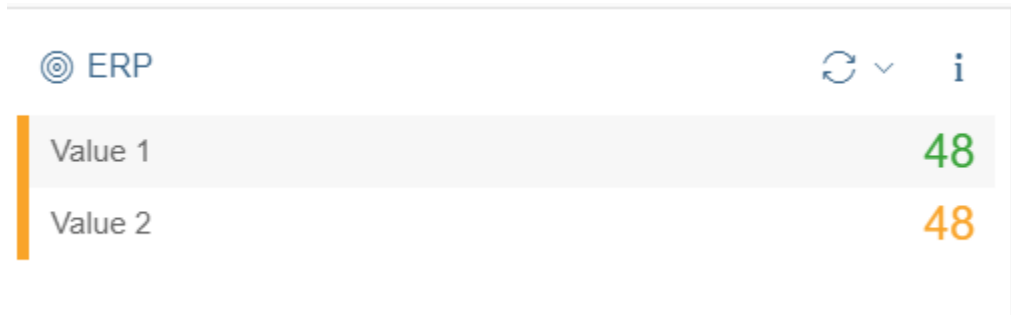


Figure 203: SLR renderer thresholds

6.14 Stack Bar Chart

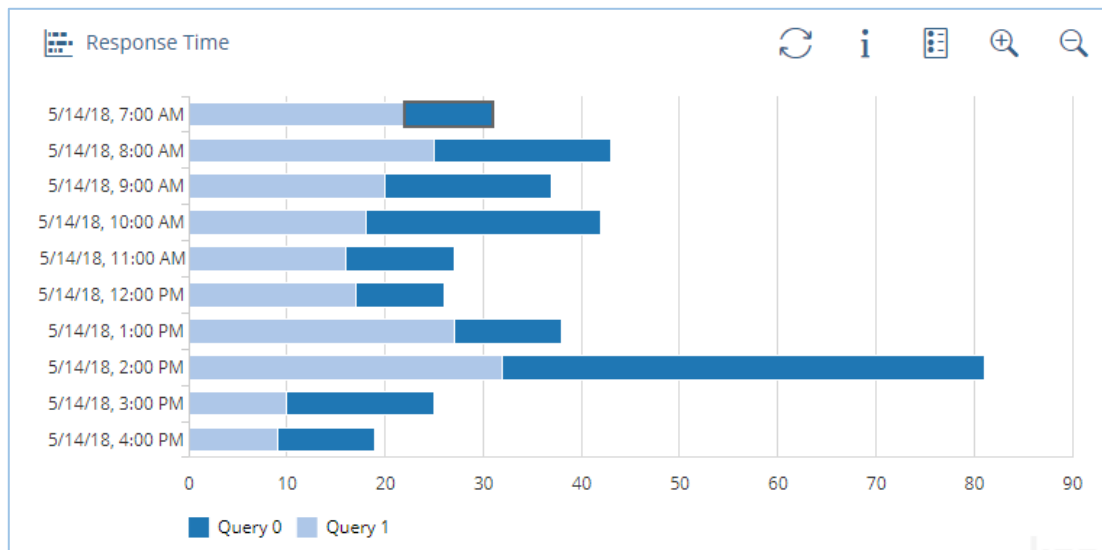


Figure 204: Stack Bar Chart

6.15 Stack Column Chart

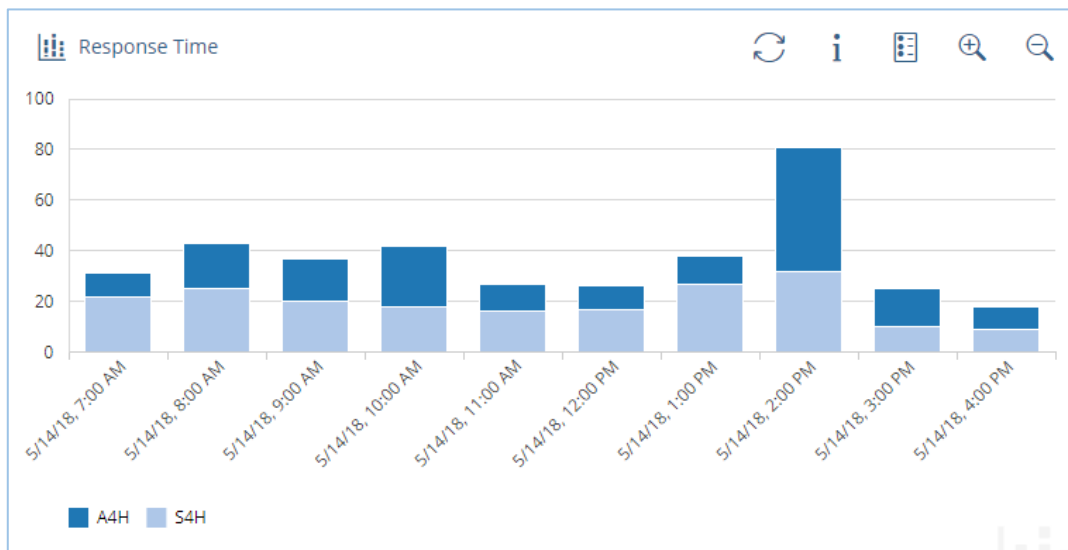


Figure 205: Stack Column Chart

6.16 Stack_Column_Chart_2Label

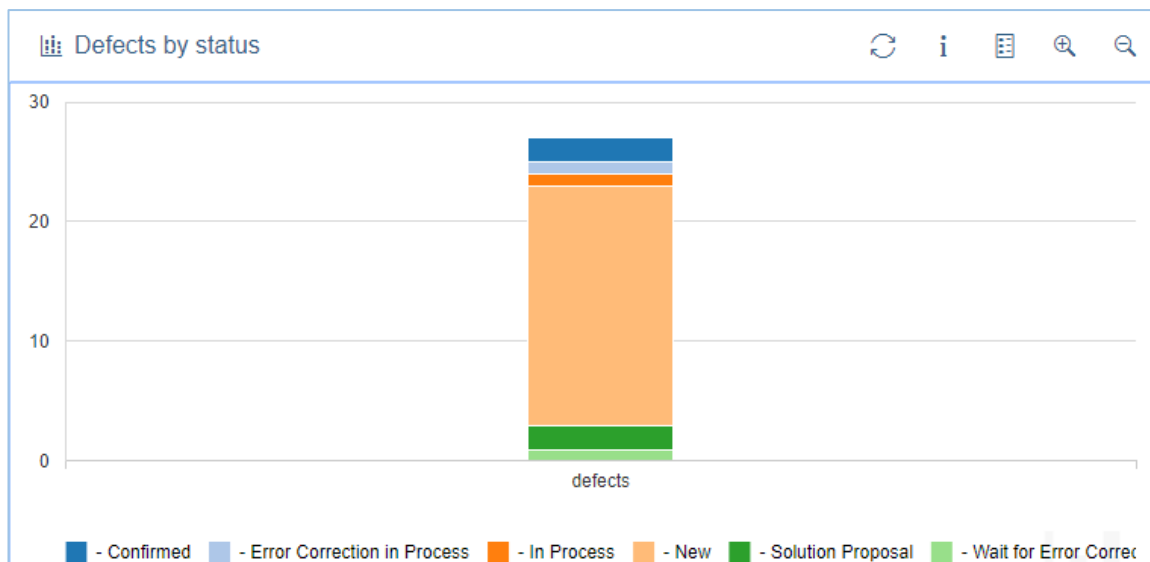


Figure 206: Stack_Column_Chart_2Label

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:

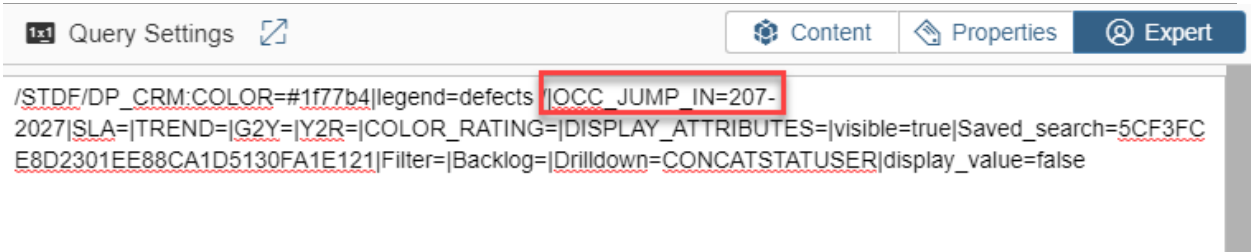


Figure 207: Configuration gadget

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

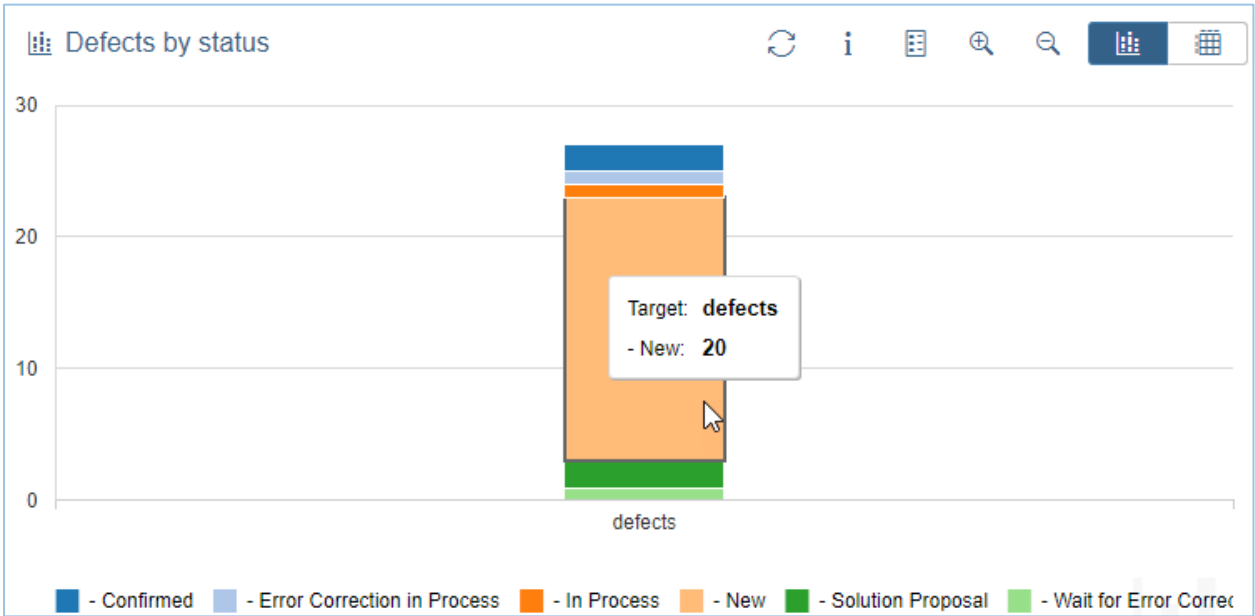


Figure 208: Detail View (1)

Here is the displayed window:

	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	5CF3FCDCEC001EE8918565A45	S1DM	Defect	8000001031	BUS2000223	00000000	00000000
10	5CF3FCDCEC001ED890FC5924	S1DM	Defect	8000001023	BUS2000223	00000000	00000000

Figure 209: Detail View (2)

6.17 Table History renderer

	2018-15	2018-16	2018-17	2018-18	2018-19	2018-20
Service Preparation	Orange	Green	Green	Green	Green	Green
Software Configuration	Green	Green	Green	Orange	Green	Green
Workload Overview	Green	Orange	Orange	Orange	Orange	Orange

Figure 210: 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	↗️ ✓	Orange	Green	Green	Green	Green	Green
Software Configuration	↗️ ✓	Green	Green	Green	Orange	Green	Green
Workload Overview	↗️ ✓	Grey	Orange	Orange	Orange	Orange	Orange

Figure 211: Trend Table Renderer

6.19 Waterfall Chart

This renderer is used only with the data provider DP_Build.

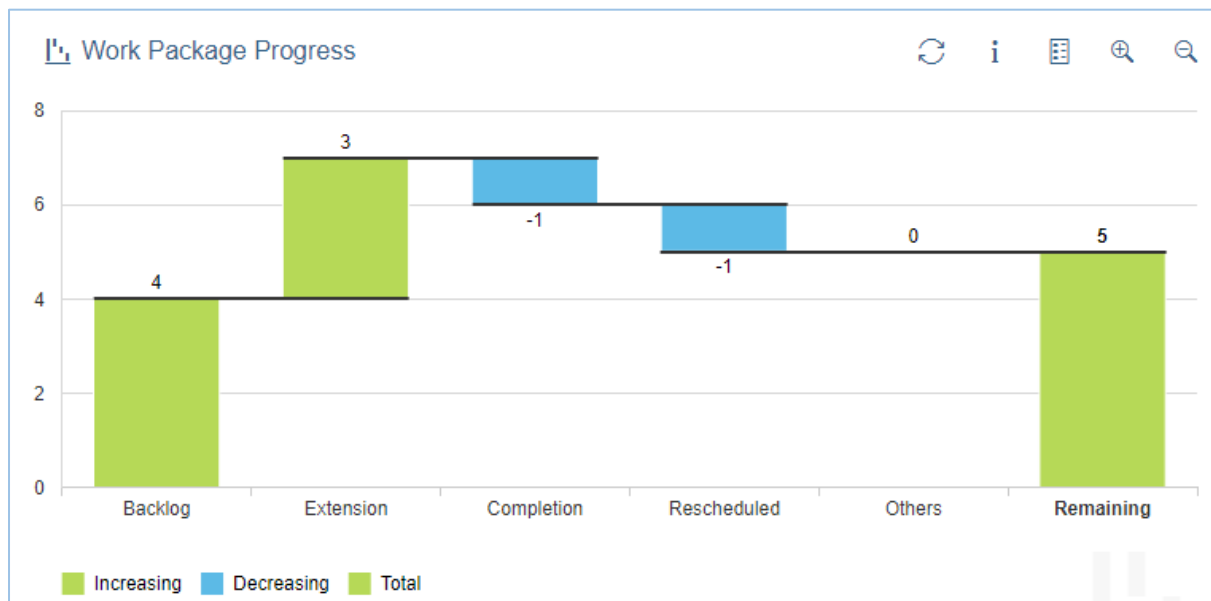


Figure 212: Waterfall renderer

6.20 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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