



SAP Focused Run

- News with Release 4.0 FP03 -

Product Management of SAP Focused Run
June 2024

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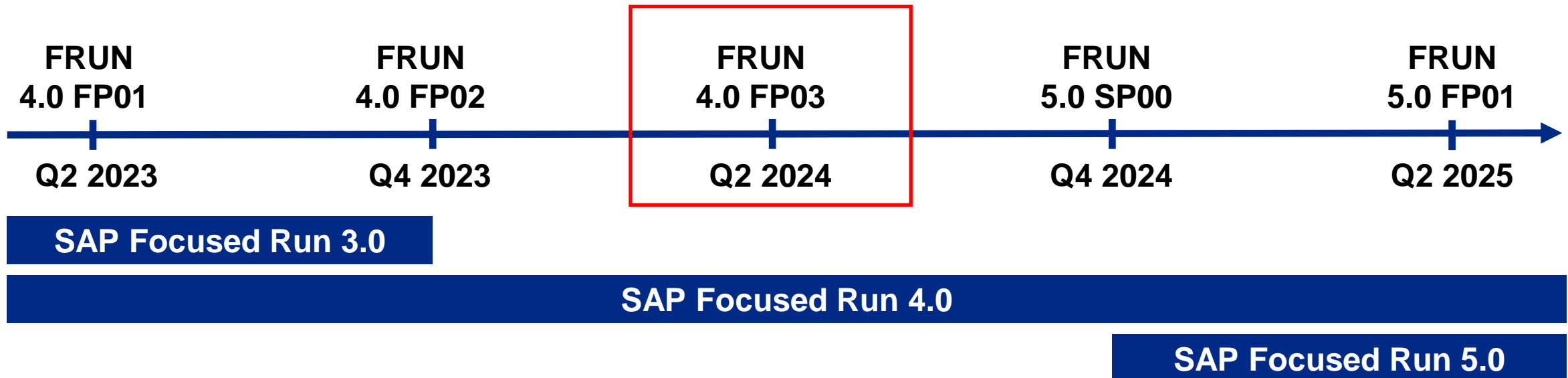
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Overview

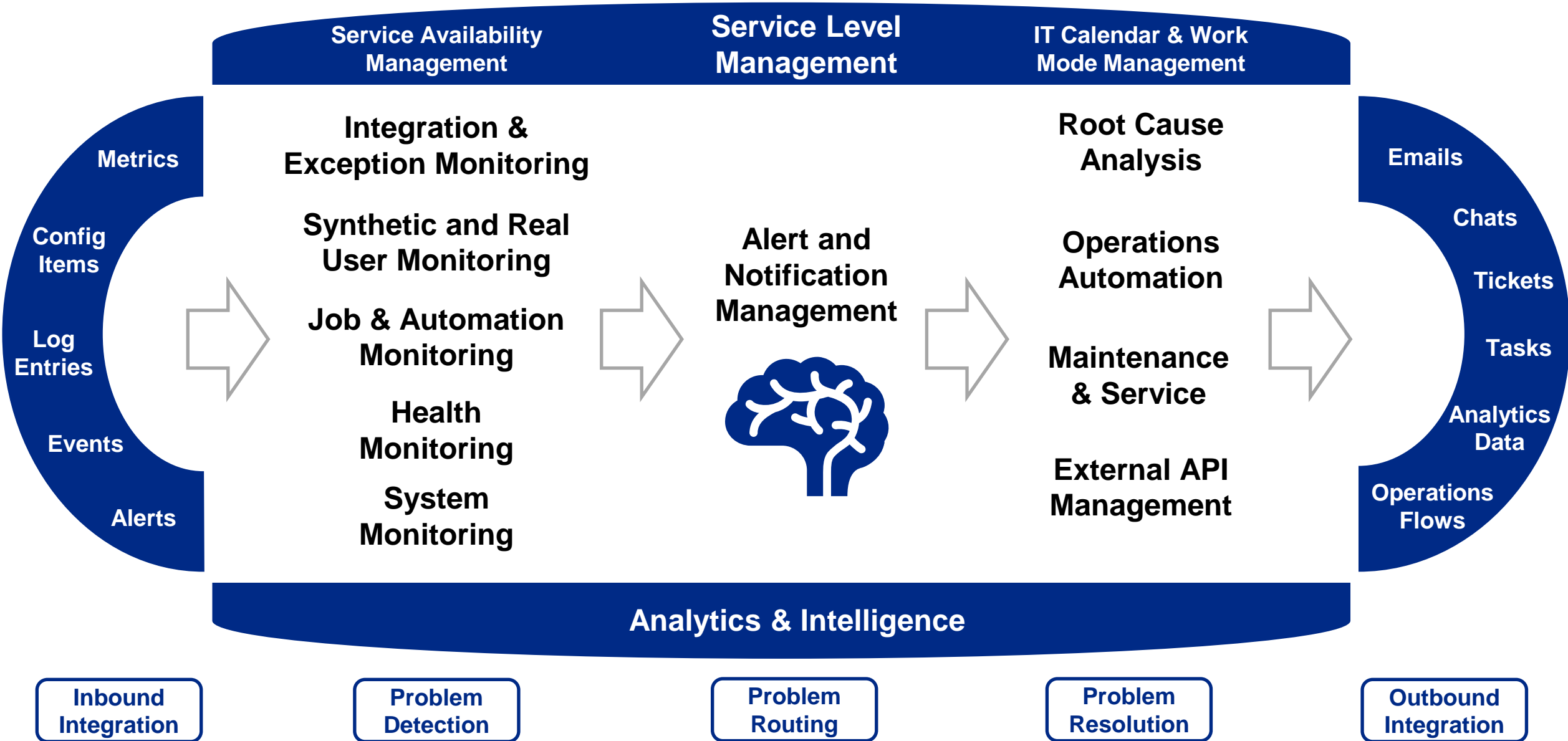


SAP Focused Run – Delivery

- **Continuous delivery of new innovations** based on customer feedback
- Keeping functional focus on **system and application management for hybrid landscapes**
- **Three years release cycles** with delivery of **two delivery units per year** → **One year overlap** to change to next release
- **Regular technology updates** for ABAP, HANA and SAPUI5 to use latest innovations **following SAP S/4HANA product strategy**



SAP Focused Run – Functional Overview



Integration & Exception Monitoring



Integration Monitoring

New Features are:

SAP Integration Suite Monitoring

- Possibility to search for SAP Integration Suite messages across multiple tenants and view the message details.
- View and reprocess SAP Integration Suite messages in 'Completed' status.



The screenshot displays the SAP Integration & Exception Monitoring interface. The top section shows search filters for Category (SAP Integration Suite), Components (CPI_CO), and Time range (Mon Jun 03). Below the filters, a table lists message entries with columns for Component, Message ID, IFlow, Status Group, Status Details, Reprocess, and Update Time. A red box highlights the 'Start Reprocess' button in the 'Reprocess' column for a 'Completed' message. A second screenshot below shows a similar view with a red box highlighting the 'Component' column header.

Component	Message ID	IFlow	Status Group	Status Details	Reprocess	Update Time	Prc
CPI_CIC	AGZdg9rExjE5B-VAH-opuaku6MY	test_deleteReturn_delivery	Failed	com.sap.it.rt.adapter.http.a... The MPL ID for the failed m...	Start Reprocess	Jun 3, 2024, 10:50:32AM	4 s
CPI_CO	AGZdg7hHByAbqYcnpZKTv5bRtsQ	EU20_Replicate_Subscripti...	Completed	IFlow EU20_Replicate_Sub...	Start Reprocess	Jun 3, 2024, 10:50:03AM	3 s
CPI_CIC	AGZdgi7YQcJvJR4zasWKGqDWOYl	Replicate_Product_from_S...	Failed	com.sap.it.rt.adapter.http.a... The MPL ID for the failed m...	Start Reprocess	Jun 3, 2024, 10:44:15AM	97l
CPI_CIC	AGZdg6PAHoluP9J3GOpcev59nZr	Product_Payload_Customiz...	Completed	IFlow Product_Payload_Cu...	Start Reprocess	Jun 3, 2024, 10:44:14AM	2 n

Component	Message ID	IFlow	Status Group	Status Details	Reprocess	Update Time	Prc
CPI_EAC	AGZdh3hJavFivAZ1q5XgAcl_L1WF	Retry_loading_buffered_da...	Completed	IFlow Retry_loading_buffer...	Start Reprocess	Jun 3, 2024, 11:06:00AM	53
CPI_EAC	AGZdhzwx33NvGg9_8hzvz8AKk9	Retry_loading_buffered_da...	Completed	IFlow Retry_loading_buffer...	Start Reprocess	Jun 3, 2024, 11:05:00AM	53
CPI_EAC	AGZdhwAw6pzPIB78KA4HD4VMF1JZ	Retry_loading_buffered_da...	Completed	IFlow Retry_loading_buffer...	Start Reprocess	Jun 3, 2024, 11:04:00AM	56
CPI_EAC	AGZdhsSyFIOD_SNiG0mL9wNw34n1	Retry_loading_buffered_da...	Completed	IFlow Retry_loading_buffer...	Start Reprocess	Jun 3, 2024, 11:03:00AM	53
CPI_EAC	AGZdhjofac8P6id7XE9xwAHlXM	Retry_loading_buffered_da...	Completed	IFlow Retry_loading_buffer...	Start Reprocess	Jun 3, 2024, 11:02:00AM	53
CPI_EAC	AGZdhxoaQc8QvjGNG-E1MHTlhc	Retry_loading_buffered_da...	Completed	IFlow Retry_loading_buffer...	Start Reprocess	Jun 3, 2024, 11:01:00AM	26l
CPI_CO	AGZdhdnkoPtcqFgD8wgF-PGPb	EU20_Replicate_Subscripti...	Completed	IFlow EU20_Replicate_Sub...	Start Reprocess	Jun 3, 2024, 11:00:05AM	5 s
CPI_EAC	AGZdhhdqHymlJ7Zihpoc5SXNcP	Create_scheduler_for_Goo...	Failed	javax.script.ScriptException...	Start Reprocess	Jun 3, 2024, 11:00:03AM	3 s
CPI_EAC	AGZdhhdCfow_QNliemVRJ0dScwt5h	Refresh_OAuth_token_fro...	Failed	javax.script.ScriptException...	Start Reprocess	Jun 3, 2024, 11:00:03AM	3 s
CPI_EAC	AGZdhahAHUMGYtXkrQcGvHSRk0Z5	Retry_loading_buffered_da...	Completed	IFlow Retry_loading_buffer...	Start Reprocess	Jun 3, 2024, 11:00:00AM	60
CPI_EAC	AGZdhdS91V7hTDSQJrcvmFDz7Em	Retry_loading_buffered_da...	Completed	IFlow Retry_loading_buffer...	Start Reprocess	Jun 3, 2024, 10:59:00AM	43
CPI_EAC	AGZdhzh-ljm_OaCDxyl052HemWh	Retry_loading_buffered_da...	Completed	IFlow Retry_loading_buffer...	Start Reprocess	Jun 3, 2024, 10:58:00AM	43

Integration Monitoring

New Enhancements are:

SAP Integration Suite Monitoring

- New metric “Consecutive issues detected per Artifact Name” for alerting.

tRFC Monitoring

- New filter parameter, “Program Name”, for alerting and scenario filters.

IDoc Monitoring

- Send business attributes in email notifications.



The screenshot displays the 'Edit Service' configuration page for 'CPI_CIC-SAP Integration Suite (Cloud Integration)-LOCALNETWORK'. The interface is divided into several sections:

- Alerting Table:** A table with columns for Categories, Alert Name, Metric Name, Filter Name, Status, and Variant Name. Two rows are visible, both with 'ON' status indicators.
- Alert Details:** A section with tabs for General, Filter, and Description. The Filter tab is active, showing a form with the following fields:
 - Service: CPI_CIC-SAP Integration Suite (Cloud Integration)-...
 - Categories: SAP Integration Suite
 - Metric Name: Consecutive issues detected per Artifact Name
 - Alert Name: * Consecutive issues detected per Artifact Name
- Filter Parameters:** A list of filter parameters including Client, RFC Destination, Function Module, State, and Program Name. The Program Name parameter is highlighted with an orange box.
- Metric Parameters:** A section for defining alert thresholds, including Status Group (set to CRITICAL) and a threshold value (set to 0).

Exception Monitoring



- Enriched support of Log File Content Monitoring.

It is possible to monitor several file types located on the same host. Also, cluster systems running on multiple logical hosts are supported.

Prerequisites remain as documented in the [expert portal](#).

The screenshot displays the SAP Integration & Exception Monitoring interface. The top navigation bar includes 'Categories', 'Monitoring', and 'Alerting'. The main content area shows configuration for 'Log File Content' monitoring, including filter name 'Collect All Log Errors', system 'FBOTMOAT-ATC-ROT-TMO-01', and various file paths and patterns. A 'Parameter' section is visible on the left. An inset window shows a 'Status Overview' with 12 components, 0 not rated, 10 success, 0 warning, 2 error, and 0 in process. Below this is a 'Component Overview' for 'Integration Error Monitor of FBOTMOAT' and a 'Log File Content' section with a bar chart for 'Evolution Last 24 Hours' and a table of exceptions.

Status	Timestamp	Technical Context	Message
✖	Nov 8, 2023, 9:22:04 PM	FBOTMOAT-ATC	doError: javax.servlet.ServletException: DumpServlet throws at 1699474924432 ... a Servlet Exception
✖	Nov 8, 2023, 9:22:04 PM	FBOTMOAT-ATC	Exception failed! javax.servlet.ServletException: DumpServlet throws at 1699474924432 ... a Servlet E...
✖	Nov 8, 2023, 9:18:04 PM	FBOTMOAT-ATC	doError: javax.servlet.ServletException: DumpServlet throws at 1699474684829 ... a Servlet Exception
✖	Nov 8, 2023, 9:18:04 PM	FBOTMOAT-ATC	Exception failed! javax.servlet.ServletException: DumpServlet throws at 1699474684829 ... a Servlet E...
✖	Nov 8, 2023, 9:16:04 PM	FBOTMOAT-ATC	Exception failed! javax.servlet.ServletException: DumpServlet throws at 1699474564432 ... a Servlet E...
✖	Nov 8, 2023, 9:16:04 PM	FBOTMOAT-ATC	doError: javax.servlet.ServletException: DumpServlet throws at 1699474564432 ... a Servlet Exception

Exception Monitoring



- Enriched Monitoring content:

- ABAP Job Log category:
To collect Logs generated by ABAP Application and system jobs, as available in SM37
- ABAP Job Application Log category:
To collect Application Logs generated in SLG1 by ABAP Application and system jobs
Precondition: You need to run CRIT transaction to enable the criteria: Auto-linking Appllog-Handles for jobs

Software prerequisites:

- For S/4HANA private cloud tenants: ST-PI 7.40 SP26 or higher
- For on-premises S/4 HANA or ECC systems (collection using SDA): ST-PI 7.40 SP25 or higher

The screenshot displays the SAP Integration & Exception Monitoring interface. At the top, a 'Status Overview' shows 16 components with 12 successes, 0 warnings, and 4 errors. Below this, the 'Component Overview' for 'Integration Error Monitor' is shown, featuring a donut chart for 'Exceptions Distribution' and a bar chart for 'Evolution Over The Period'. The 'Number of Exceptions per Category' bar chart shows a high count for 'ABAP Job Application Log' and a lower count for 'ABAP Job Log'. Two detailed views are shown below: 'ABAP Job Log' with 1 exception and 'ABAP Job Application Log' with 94 exceptions. Each view includes an 'Evolution Last 24 Hours' chart and a table of exceptions.

Status	Timestamp	Technical Context	Message	User	Job Name	Job Aborted
Error	May 15, 2024, 8:12:08 PM		Material FKL_AD_ROT_001 not maintained by Purc...			False

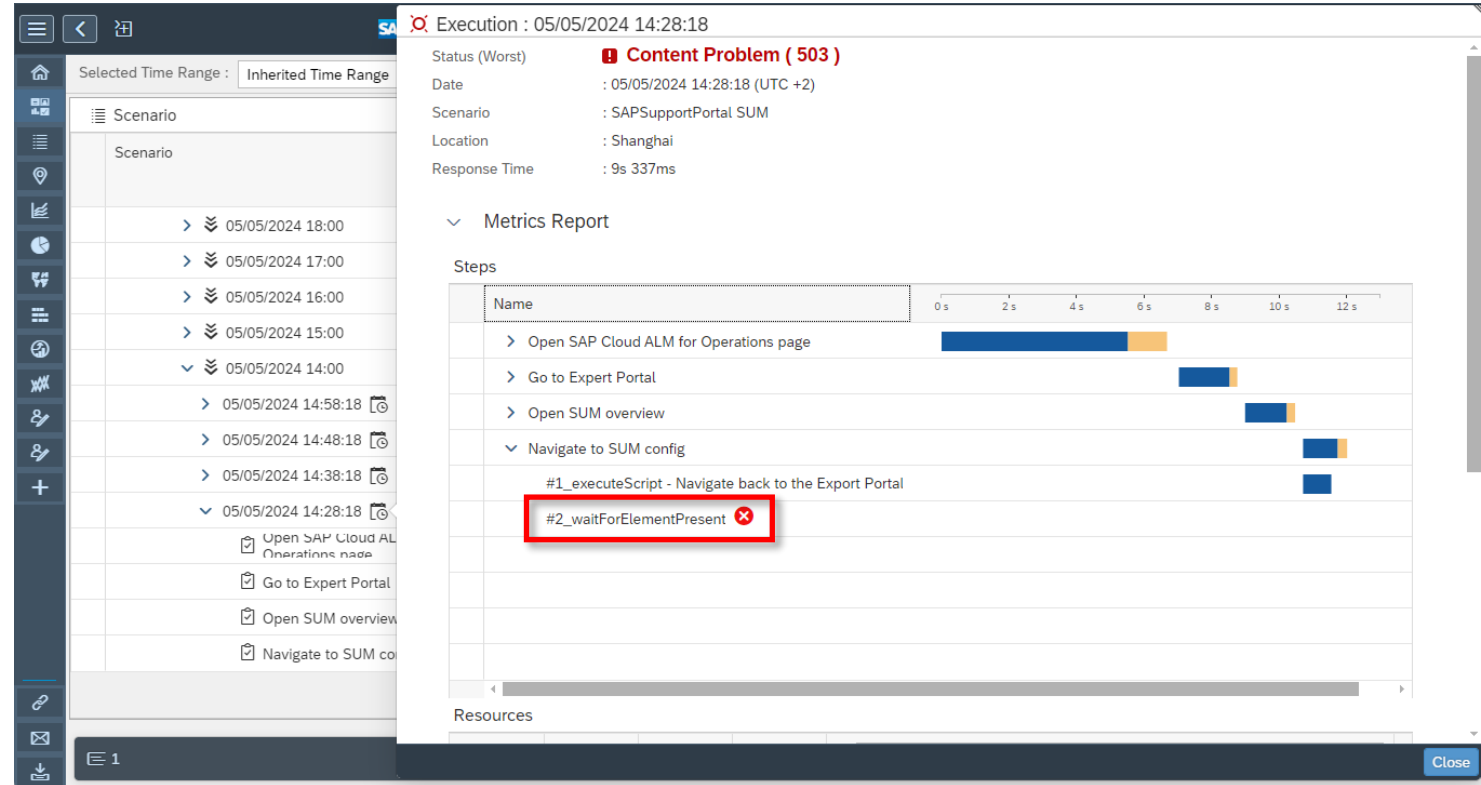
Status	Timestamp	Technical Context	Message	User	Job Name
Error	May 15, 2024, 8:13:00 PM		RFC destination WORKFLOW_LOCAL_710 does not exist.		SAP_WORKFLOW_SYSTEM
Error	May 15, 2024, 8:12:59 PM		RFC destination WORKFLOW_LOCAL_315 does not exist.		SAP_WORKFLOW_SYSTEM

Synthetic User Monitoring



Synthetic User Monitoring (SUM)

- Selenium scenarios: When an execution fails, the **failing command** is indicated in the **Metric Details** of the execution details now.
- The duration of the failing command is not considered in the response time.



Execution : 05/05/2024 14:28:18

Status (Worst) **Content Problem (503)**

Date : 05/05/2024 14:28:18 (UTC +2)

Scenario : SAPSupportPortal SUM

Location : Shanghai

Response Time : 9s 337ms

Metrics Report

Steps

Name	0 s	2 s	4 s	6 s	8 s	10 s	12 s
Open SAP Cloud ALM for Operations page	[Progress bar]						
Go to Expert Portal					[Progress bar]		
Open SUM overview						[Progress bar]	
Navigate to SUM config							[Progress bar]
#1_executeScript - Navigate back to the Export Portal							[Progress bar]
#2_waitForElementPresent							[Progress bar with error icon]

Resources

Real User Monitoring






Real User Monitoring

Now RUM Groups can be defined also based on location attributes like country code and custom attribute 1.

Details regarding custom attributes can be found here:

<https://support.sap.com/en/alm/sap-focused-run/expert-portal/rum-real-user-monitoring/RUMUserLocations.html>

Overview / RUM GROUP



RUM GROUP

HTTP
[redacted] ABAP
Last change by [redacted], 11:05:42 AM

General SLA Alerting Alert Historical

Title: [redacted]
Description: [redacted]
Type: HTTP x

Select Scope By: **System** LMDB Attributes

System: [redacted] ABAP x

User Type: All

Request: /...exclude *...wildcard
Action: /...exclude *...wildcard ,...seperator
Username: [redacted]

Country Code: DE x IN

Custom 1: ✔ Entry validated successfully

Public:	ID	Indonesia
	IN	India



Real User Monitoring

New Content

With SAP Focused Run 4.0 FP03 the following **BTP CF SaaS** types are supported:

- SAP Cell and Gene Therapy Orchestration
- SAP Order and Delivery Scheduling
- SAP Variant Configuration and Pricing

Job & Automation Monitoring



Job & Automation Monitoring



Improvement when adding jobs to group

When adding jobs to a job group, you can filter jobs for multiple systems (before all or one system).

Configuration for Job Groups

Add Job

Go Hide Filter Bar Filters

Job Name: SAP_x Job Type: Job Type Systems: E2EVAL x 1 More Context: Context Standard: Mandatory:

Jobs (98)

<input type="checkbox"/>	Job Name	Job Type	Recurrence	St...	System	Cont...	Last Changed	Scheduled By	Last Run
<input type="checkbox"/>	SAP_REORG_MAIL	SAP ABAP Job	1 Day	<input type="checkbox"/>	E2EVAL	000	Apr 24, 2024, 2:05:45 PM	DDIC	Apr 29, 2024, 3:14:07 PM
<input type="checkbox"/>	SAP_REORG_JOBSTAT...	SAP ABAP Job	1 Month	<input checked="" type="checkbox"/>	E2EVAL	100	Apr 24, 2024, 7:54:21 AM	KUMARVAIB	Apr 28, 2024, 1:00:05 AM
<input type="checkbox"/>	SAP_REORG_JOBS	SAP ABAP Job	1 Day	<input checked="" type="checkbox"/>	E2EVAL	000	Apr 24, 2024, 2:05:45 PM	DDIC	Apr 29, 2024, 1:50:07 PM
<input type="checkbox"/>	SAP_REORG_CRM_PR...	SAP ABAP Job	1 Day	<input checked="" type="checkbox"/>	E2EVAL	100	Apr 24, 2024, 7:54:21 AM	KUMARVAIB	Apr 29, 2024, 12:30:06 ...
<input type="checkbox"/>	SAP_REORG_BATCHIN...	SAP ABAP Job	1 Day	<input checked="" type="checkbox"/>	E2EVAL	100	Apr 24, 2024, 7:54:21 AM	KUMARVAIB	Apr 29, 2024, 12:30:06 ...
<input type="checkbox"/>	SAP_REORG_ABAPDU...	SAP ABAP Job	1 Day	<input checked="" type="checkbox"/>	E2EVAL	100	Apr 24, 2024, 7:54:21 AM	KUMARVAIB	Apr 29, 2024, 12:30:06 ...
<input type="checkbox"/>	SAP_NOTIFADMIN_SY...	SAP ABAP Job	1 Day	<input type="checkbox"/>	E2EVAL	100	Apr 24, 2024, 7:54:21 AM	MAYERTI	Apr 29, 2024, 9:17:24 AM
<input type="checkbox"/>	SAP_NOTIFADMIN_SY...	SAP ABAP Job	1 Day	<input type="checkbox"/>	E2EVAL	100	Apr 24, 2024, 7:54:21 AM	PICQUART	Apr 29, 2024, 4:29:24 AM
<input type="checkbox"/>	SAP_METRIC_STORE...	SAP ABAP Job	1 Hour	<input type="checkbox"/>	E2EVAL	100	Apr 24, 2024, 7:54:21 AM	MAYERTI	Apr 29, 2024, 3:17:07 PM
<input type="checkbox"/>	SAP_LMDB_NOTIFY_L...	SAP ABAP Job		<input type="checkbox"/>	E2EVAL	100	Apr 29, 2024, 3:41:05 PM	SMD_RFC	Apr 29, 2024, 3:46:07 PM

OK Cancel Save Cancel



Job & Automation Monitoring

Outbound BADI

GET_DET_FROM_AEM_FOR_ALERT_ID Method provides information on failed job execution.

Note: Provides data in dialog mode (i.e. at "Trigger Alert Reaction" from Alert) only for type "Missing Execution of Mandatory Job", but in batch mode (i.e. at alert calculation) for all JAM alert types.

Alert Details

Missing Execution of Mandatory Job some of SAP_FRN_JOBS
FT4TMO (ABAP) [Technical System]

Created: 1 day ago, Apr 28, 2024, 04:45:40 AM | Last Updated: 1 d
Priority: Low | Status: Open | Severity: 5
Worst Rating: | Current Rating: | Network: ROT-TM
Classification: None | Categorization: None | Last Created Inci...
Additional Alert Keys: Name = SAP_FRN_CNM_SYNC_SYSTEM_USERS | Typ...

Actions

- Confirm
- Add Comment
- Processor >
- Postpone
- Send Notification
- Change Configuration
- Display MO Details
- Trigger Alert Reaction**
- Search Guided Procedure
- Classify >
- Categorize >
- Open in a new window

BADI Configuration

Table: LT_EVENT_METRIC
Attributes: Standard [1x15(11062)]

Row	ALRT_SHORT_TEXT [C(1024)]	A...	A. N..	S...	RAT...	VAL...	TEXT_VALUE [C(1024)]
1	Missing Execution of Mandatory Job som...	<...	M...	Jo...	3	3	No execution of < SAP_FRN_CNM_SYNC_SYSTEM_USERS > at expected star...

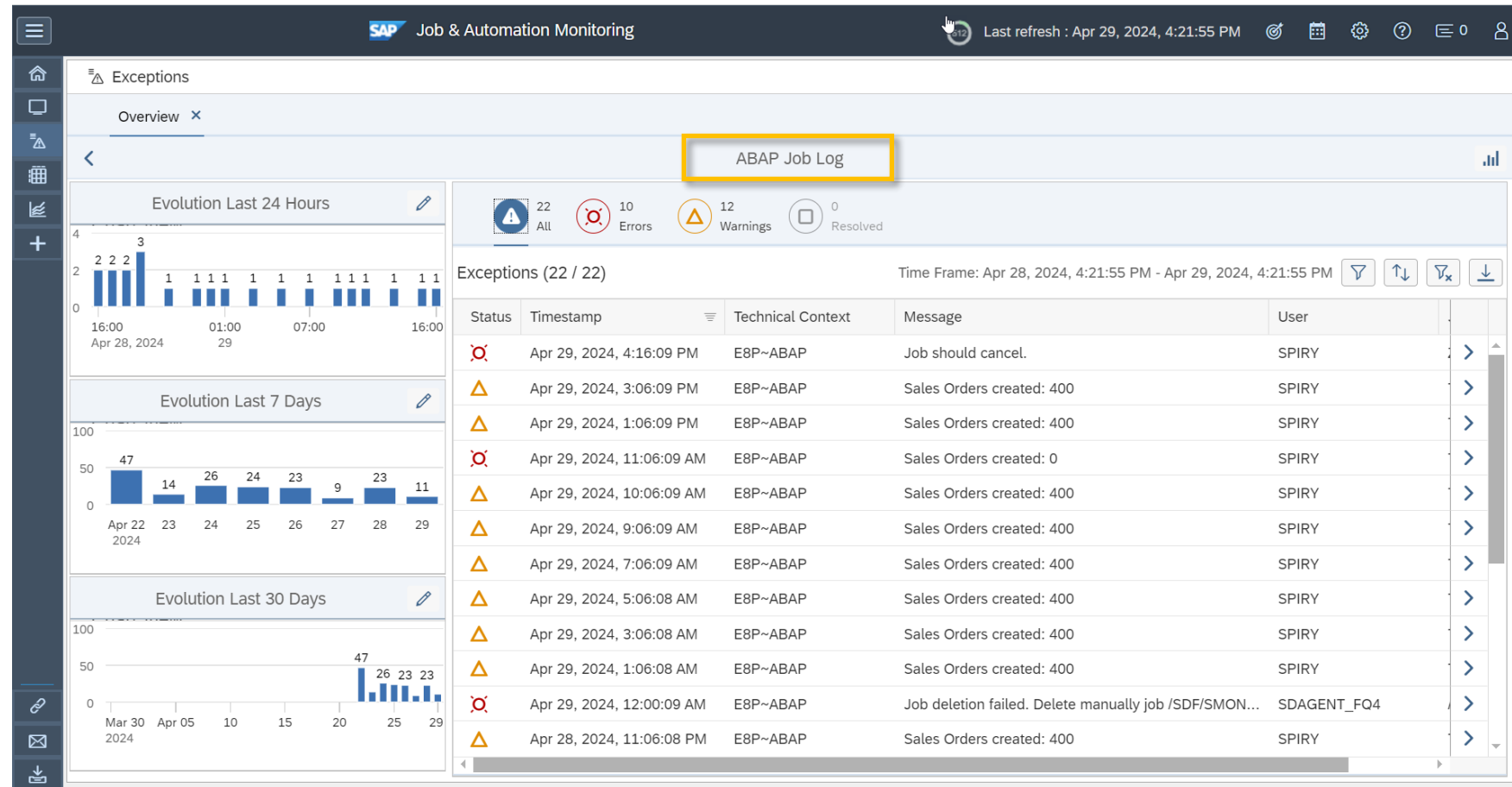
Job & Automation Monitoring



Collection of Application Log and Job Log exceptions

Application Log and Job Log info is automatically collected with new categories **ABAP Job Log** and **ABAP Job Application Log** (i.e. there is no need to configure the collection in Integration and Exception Monitoring any more), if managed system is on ST-PI SP26 and note [3374186](#) V29 is implemented.

Note: Also **Warnings** in Job Log are collected into **category ABAP Job Log** (and not only Aborts, like for category Aborted Jobs)



The screenshot displays the SAP Job & Automation Monitoring interface. The top navigation bar shows 'SAP Job & Automation Monitoring' and 'Last refresh : Apr 29, 2024, 4:21:55 PM'. The main content area is titled 'Exceptions' and 'Overview'. A yellow box highlights the 'ABAP Job Log' tab. Below the tab, there are three bar charts showing the evolution of exceptions over time: 'Evolution Last 24 Hours', 'Evolution Last 7 Days', and 'Evolution Last 30 Days'. The 'Evolution Last 24 Hours' chart shows a peak of 3 exceptions at 16:00 on Apr 28, 2024. The 'Evolution Last 7 Days' chart shows a peak of 47 exceptions on Apr 22, 2024. The 'Evolution Last 30 Days' chart shows a peak of 47 exceptions on Apr 22, 2024. Below the charts, there is a summary of exceptions: 22 All, 10 Errors, 12 Warnings, and 0 Resolved. The main table lists 22 exceptions with columns for Status, Timestamp, Technical Context, Message, and User. The table shows various exceptions related to 'Sales Orders created' and 'Job should cancel'.

Status	Timestamp	Technical Context	Message	User
🚫	Apr 29, 2024, 4:16:09 PM	E8P~ABAP	Job should cancel.	SPIRY
⚠️	Apr 29, 2024, 3:06:09 PM	E8P~ABAP	Sales Orders created: 400	SPIRY
⚠️	Apr 29, 2024, 1:06:09 PM	E8P~ABAP	Sales Orders created: 400	SPIRY
🚫	Apr 29, 2024, 11:06:09 AM	E8P~ABAP	Sales Orders created: 0	SPIRY
⚠️	Apr 29, 2024, 10:06:09 AM	E8P~ABAP	Sales Orders created: 400	SPIRY
⚠️	Apr 29, 2024, 9:06:09 AM	E8P~ABAP	Sales Orders created: 400	SPIRY
⚠️	Apr 29, 2024, 7:06:09 AM	E8P~ABAP	Sales Orders created: 400	SPIRY
⚠️	Apr 29, 2024, 5:06:08 AM	E8P~ABAP	Sales Orders created: 400	SPIRY
⚠️	Apr 29, 2024, 3:06:08 AM	E8P~ABAP	Sales Orders created: 400	SPIRY
⚠️	Apr 29, 2024, 1:06:08 AM	E8P~ABAP	Sales Orders created: 400	SPIRY
🚫	Apr 29, 2024, 12:00:09 AM	E8P~ABAP	Job deletion failed. Delete manually job /SDF/SMON...	SDAGENT_FQ4
⚠️	Apr 28, 2024, 11:06:08 PM	E8P~ABAP	Sales Orders created: 400	SPIRY

Job & Automation Monitoring



Navigation from the Monitoring page to a managed ABAP system

... is possible also for loadbalancer case by maintaining LMDB attribute "Loadbalancer URL".

Product Versions: SAP S/4HANA 2023 [automatically supplied]

Where Used | Details | Assign Java Stack | Advanced | [i]

Last Manual Change in LMDB: 29.04.2024 16:32:34 SPIRY

Last Change by Data Supplier: 29.04.2024 06:57:41 More...

Attributes | Technical Scenarios | SAP Support Portal | Business Partners | Installed Licenses

Short Description: [] Description: []

IT Admin Role: Undefined [v] [i]

Priority: [] [v] [i]

Lifecycle Status: Active [v] [i]

Additional Attributes of Technical System

Attribute	Value	Value Description
Loadbalancer URL	https://ldcfq4.wdf.sap.corp:50000/	

SAP Job & Automation Monitoring

Last refresh: Apr 29, 2024, 4:21:55 PM

Monitoring

Systems: E8P | Name: SAP_FIN_FCLM_BAM_GEN_APPTS | Job Type: SAP ABAP Job | Context: 200

Systems / Jobs or Automations / Executions of SAP_FIN_FCLM_BAM_GEN_APPTS (16/16)

Planned Start Time	Start Time	End Time	Execution Status	Application Status	Start Delay	Run Time
Apr 29, 2024, 2:30:00 AM			Finished	Errors	00:00:49	00:00:01
Apr 28, 2024, 2:30:00 AM			Finished		00:00:00	00:00:01
Apr 27, 2024, 2:30:00 AM			Finished		00:00:00	00:00:01
Apr 26, 2024, 2:30:00 AM			Finished		00:00:00	00:00:01
Apr 25, 2024, 2:30:00 AM			Finished		00:00:00	00:00:01
Apr 24, 2024, 2:30:00 AM			Finished		00:00:00	00:00:01

Details on execution of: SAP_FIN_FCLM_BAM_GEN_APPTS

Run Data | Recurrence | Metrics

Instance detail

Name	Value
Name	SAP_FIN_FCLM_BAM_GEN_APPTS
Run ID	02300800
Planned Start Time	Apr 29, 2024, 2:30:00 AM
Start Time	Apr 29, 2024, 2:30:08 AM
End Time	Apr 29, 2024, 2:30:08 AM

Close

SAP Job Overview

Menu | Refresh | Spool | Job log | Step | Job details | Application servers | [Σ] | Change Layout... | [v] | [≡] | [≡]

JobName	Job CreatedB	Status	Start date	Start Time	Duration(sec.)	Delay (sec.)	Cli	Job No.
SAP_FIN_FCLM_BAM_GEN_APPTS	DDIC	Finished	29.04.2024	02:30:08	0	8	200	02300800
*Summary					0	8		

Job & Automation Monitoring



In Monitoring filtering for jobs with changing names

Via filter in Monitoring you can find a job that has been grouped by the data collector (as it is constantly changing its name) using its current name (as displayed in SM37).

Job overview from: 20.04.2024 at: : :
 to: 29.04.2024 at: : :
 Selected job names: *
 Selected user names: *

Scheduled Released Ready Active Finished
 Event-Driven Event ID:
 ABAP program Program name : FINS_MASS_DATA_WORKER

JobName	Job CreatedB	Status						
<input checked="" type="checkbox"/> FINS_REC-22.04.24-04:26:26---1	AGS_SM_SETUP	Finished	22.04.2024	04:26:27	0	0	200	04262700
<input type="checkbox"/> FINS_REC-22.04.24-04:27:26---1	AGS_SM_SETUP	Finished	22.04.2024	04:27:27	0	0	200	04272700
<input type="checkbox"/> FINS_REC-29.04.24-04:29:20---1	AGS_SM_SETUP	Finished	29.04.2024	04:29:22	0	0	200	04292200
<input type="checkbox"/> FINS_REC-29.04.24-04:30:21---1	AGS_SM_SETUP	Finished	29.04.2024	04:30:22	1	0	200	04302200
*Summary					1	0		

SAP Job & Automation Monitoring

Systems: E8P | Name: FINS_MASS_DATA_JOB | Job Type: SAP ABAP Job | Context: 200

Systems / Jobs or Automations / Executions of FINS_MASS_DATA_JOB [Grouped] (10/10)

Name	Planned Start Time	Start Time	End Time	Execution Sta...	Appli...	Start Delay	Run Time
FINS_REC-29.04.24-04:30:21---1	Apr 29, 2024, 4:30:22 AM	Apr 29, 2024, 4:30:22 AM	Apr 29, 2024, 4:30:23 AM	Finished	No	00:00:00	00:00:01
FINS_REC-29.04.24-04:29:20---1	Apr 29, 2024, 4:29:22 AM	Apr 29, 2024, 4:29:22 AM	Apr 29, 2024, 4:29:22 AM	Finished	No	00:00:00	00:00:00
FINS_REC-22.04.24-04:27:26---1	Apr 22, 2024, 4:27:27 AM	Apr 22, 2024, 4:27:27 AM	Apr 22, 2024, 4:27:27 AM	Finished	No	00:00:00	00:00:00
FINS_REC-22.04.24-04:26:26---1	Apr 22, 2024, 4:26:27 AM	Apr 22, 2024, 4:26:27 AM	Apr 22, 2024, 4:26:27 AM	Finished	No	00:00:00	00:00:00
FINS_REC-19.04.24-08:41:44---1	Apr 19, 2024, 8:41:45 AM	Apr 19, 2024, 8:41:45 AM	Apr 19, 2024, 8:41:46 AM	Finished	No	00:00:00	00:00:01
FINS_REC-19.04.24-08:40:44---1	Apr 19, 2024, 8:40:45 AM	Apr 19, 2024, 8:40:45 AM	Apr 19, 2024, 8:40:45 AM	Finished	No	00:00:00	00:00:00
FINS_REC-08.04.24-04:26:16---1	Apr 8, 2024, 4:26:17 AM	Apr 8, 2024, 4:26:17 AM	Apr 8, 2024, 4:26:17 AM	Finished	No	00:00:00	00:00:00
FINS_REC-08.04.24-04:25:16---1	Apr 8, 2024, 4:25:17 AM	Apr 8, 2024, 4:25:17 AM	Apr 8, 2024, 4:25:17 AM	Finished	No	00:00:00	00:00:00
FINS_REC-01.04.24-04:30:40---1	Apr 1, 2024, 4:30:41 AM	Apr 1, 2024, 4:30:41 AM	Apr 1, 2024, 4:30:41 AM	Finished	No	00:00:00	00:00:00
FINS_REC-01.04.24-04:29:39---1	Apr 1, 2024, 4:29:41 AM	Apr 1, 2024, 4:29:41 AM	Apr 1, 2024, 4:29:41 AM	Finished	No	00:00:00	00:00:00



Job & Automation Monitoring

More selection options in REPT_ADD_JOB_TO_GROUP report

- offers to add jobs from systems based on System role and Network.
- offers to filter jobs by Scheduled by User

Add Jobs to Existing Group based on conditions

Group Name* MANDATORY_JOBS

Extended System ID

Context / ABAP Client

Job Name

Executable

Executing User

Customer Network HiSecValid

System Role PROD

Scheduled By User DDIC

Standard Job

Mandatory Job

Remove job if deleted

Execution in Test Mode

Test mode

Health Monitoring





Health Monitoring

Use customer network in Scope selection

The scope selection in Health Monitoring also supports the selection based on the **Customer Network**.

The scope selection can be based on:

- Customer ID
- Data Center
- Customer Network

Scope Selection

Standard ▾

Customer ID: [input] Data Center: [dropdown] Customer Network: [input]

Go Hide Filter Bar Filters

Customer Network

Search and Select Define Conditions

Go Hide Filters

Customer Network: [input] Customer ID: [input] Data Center: [input]

Items (15)

<input type="checkbox"/>	Description	Customer Network	↑↓	Customer ID	Data Center
<input type="checkbox"/>				ACM	BER
<input type="checkbox"/>				NEE	ROT
<input type="checkbox"/>				SSC	CH1
<input type="checkbox"/>				CLM	ROT
<input type="checkbox"/>				LDB	ROT
<input type="checkbox"/>				DLM	DE1
<input type="checkbox"/>				LDB	ROT
<input type="checkbox"/>				LOC	ROT

No Items or Conditions Selected

OK Cancel

Health Monitoring Self-Monitoring Metrics



The status of the mandatory **jobs for Health Monitoring** can be monitored in **Self-Monitoring**.

The following jobs are monitored:

- Event Calculation Job
- Housekeeping Job

If these jobs are not scheduled, or if the last execution was failing, it will be displayed as critical in the **Self-Monitoring Dashboard**.

Furthermore, it is possible to configure an **alert** in case issues with these jobs are detected.

The screenshot shows the SAP Self-Monitoring Dashboard interface. The main content area is titled "Central Components" and contains a table with columns for Component, Status, and Value. The "Health Monitoring" component is expanded, showing its "Job Status" sub-section. A red box highlights the "Event Calculation Job" and "Housekeeping Job" rows. The "Event Calculation Job" has a green status icon and the message "Event Calculation job is scheduled. Last run was successful". The "Housekeeping Job" has a red status icon and the message "Housekeeping job is scheduled. Last run was cancelled".

Component	Status	Value
> Agent Management Application	✓	No Alerts
> CSA Collector Framework	✗	1 Alert(s) in Alert Inbox
> Expert Scheduling Management	✗	1 Alert(s) in Alert Inbox
> Early Watch Alert Infrastructure	✓	No Alerts
▼ Health Monitoring	✗	1 Alert(s) in Alert Inbox
▼ Job Status	✗	
Event Calculation Job	✓	Event Calculation job is scheduled. Last run was successful
Housekeeping Job	✗	Housekeeping job is scheduled. Last run was cancelled
> Introscope Enterprise Manager	✗	
> Landscape Management Database	✓	No Alerts
> Monitoring and Alerting Infrastructure	⚠	2 Alert(s) in Alert Inbox

Demo: Health Monitoring



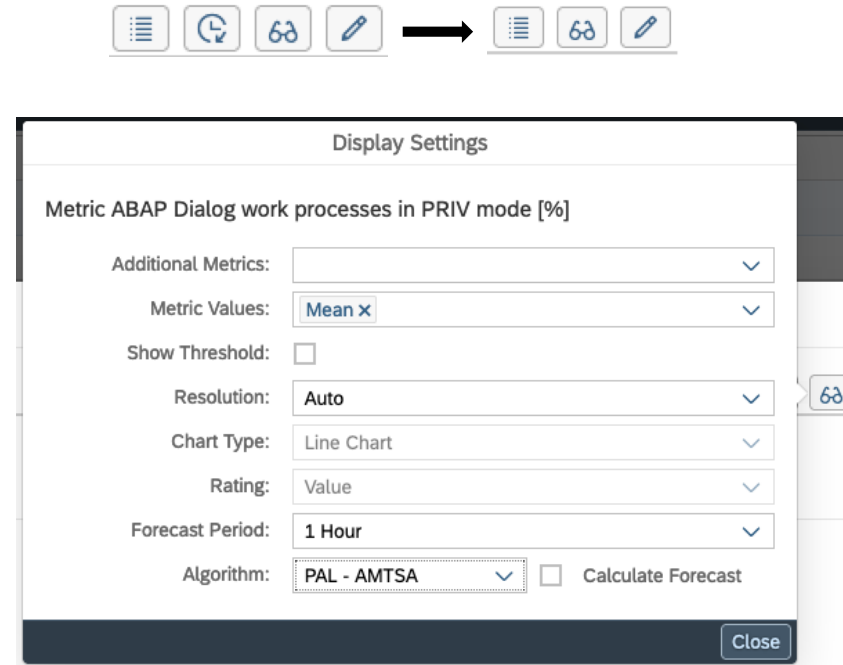
System Monitoring



System Monitoring

Metric Monitor

- Consolidated view – Forecasting options are now moved into “Display” section
- Selected **Resolution** is valid for history and Forecast Period



System Monitoring

Rating type selection

- Based on the defined threshold type, value or calculated ratings are displayed. This can now be changed in Display Settings.

The screenshot shows a 'Display Settings' dialog box for a 'Metric SQL Execution Check'. The settings are as follows:

- Additional Metrics:** (Empty dropdown)
- Metric Values:** Mean \times (Dropdown)
- Show Threshold:**
- Resolution:** Auto (Dropdown)
- Chart Type:** Bar Chart (Dropdown)
- Rating:** Value (Dropdown menu is open, showing 'Value' and 'Calculated' options)

System Monitoring

Monitoring Content

- SAP Enqueue Replication Server is now supported with own template and metrics.

* Name:

Version: Current

Package: AI_SOLMAN_ALRT_REP_CONTENT

Applicable to: [SAP Enqueue Replication Server](#)

HTML View: [Simple View](#) [Detailed View](#)

Default Settings

Automatic Notification: Global Settings (Inactive)

Outbound Integration: Global Settings (Inactive)

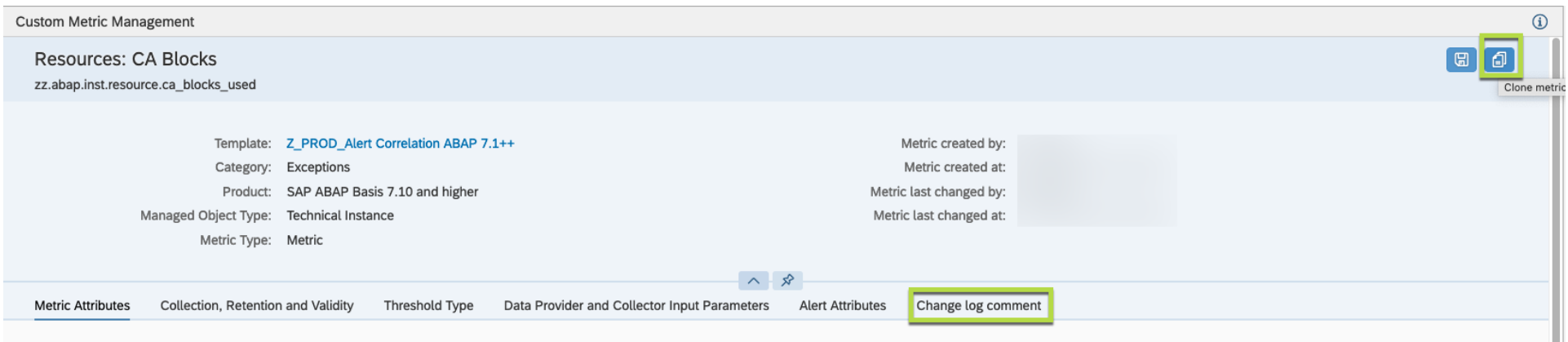
Automatic Alert Confirmation: Global Settings (Inactive)

Name	Category
<input checked="" type="radio"/> Enqueue Replication Server not available	Availability
<input type="radio"/> Enqueue Replication Server not available	Availability
<input type="radio"/> Enqueue Replicator Status	Availability
<input type="radio"/> Replication Status	Exceptions
<input type="radio"/> Replication Status	Exceptions
<input type="radio"/> Replication Status	Exceptions

System Monitoring

Custom Metric Management

- Introducing **Metric duplication** within one template (Clone metric). Creation wizard will be prefilled with data from source metric.
- **Comment section** “Change log comment” to track changes.

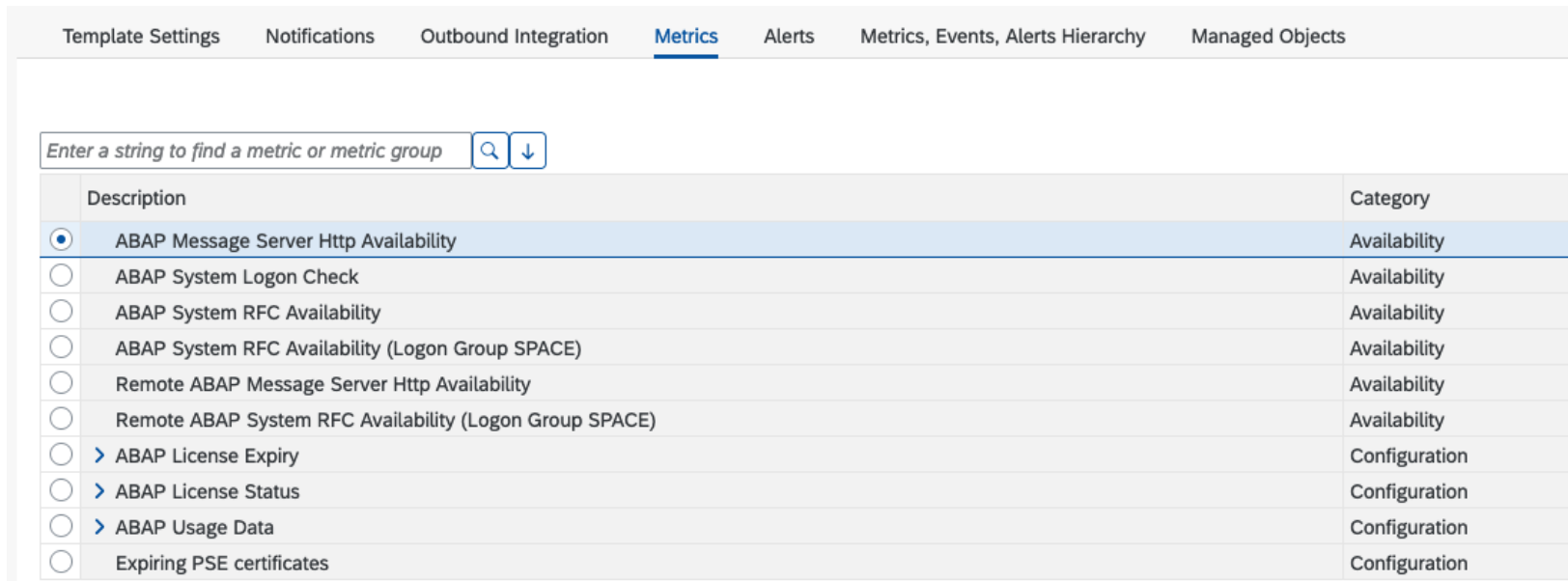


The screenshot displays the 'Custom Metric Management' interface. At the top, it shows 'Resources: CA Blocks' and the identifier 'zz.abap.inst.resource.ca_blocks_used'. Below this, the configuration details are listed: Template: Z_PROD_Alert Correlation ABAP 7.1++, Category: Exceptions, Product: SAP ABAP Basis 7.10 and higher, Managed Object Type: Technical Instance, and Metric Type: Metric. On the right side, there are fields for 'Metric created by:', 'Metric created at:', 'Metric last changed by:', and 'Metric last changed at:'. A 'Clone metric' button is visible in the top right corner, highlighted with a green box. At the bottom, a navigation bar contains several tabs: 'Metric Attributes', 'Collection, Retention and Validity', 'Threshold Type', 'Data Provider and Collector Input Parameters', 'Alert Attributes', and 'Change log comment'. The 'Change log comment' tab is highlighted with a green box.

System Monitoring

Template Maintenance

- Search option in Metrics section of Template Maintenance UI to simplify the maintenance.



The screenshot displays the 'Template Maintenance' interface, specifically the 'Metrics' section. The navigation bar at the top includes 'Template Settings', 'Notifications', 'Outbound Integration', 'Metrics' (highlighted), 'Alerts', 'Metrics, Events, Alerts Hierarchy', and 'Managed Objects'. Below the navigation bar is a search input field with the placeholder text 'Enter a string to find a metric or metric group' and search and dropdown icons. A table lists various metrics with their descriptions and categories.

	Description	Category
<input checked="" type="radio"/>	ABAP Message Server Http Availability	Availability
<input type="radio"/>	ABAP System Logon Check	Availability
<input type="radio"/>	ABAP System RFC Availability	Availability
<input type="radio"/>	ABAP System RFC Availability (Logon Group SPACE)	Availability
<input type="radio"/>	Remote ABAP Message Server Http Availability	Availability
<input type="radio"/>	Remote ABAP System RFC Availability (Logon Group SPACE)	Availability
<input type="radio"/>	> ABAP License Expiry	Configuration
<input type="radio"/>	> ABAP License Status	Configuration
<input type="radio"/>	> ABAP Usage Data	Configuration
<input type="radio"/>	Expiring PSE certificates	Configuration

System Monitoring

Individual Maintenance

- Support following features in Managed Object specific changes:
 - multi-system propagation (change can be propagated to each object using the same template)
 - metric groups (activate/deactivate toggle)
 - metric groups – display default variant
- Providing API for activating/deactivating metrics and alerts

Change Configuration

Metric Settings: **Short Dumps** for (ABAP_SRV)
Template: [Z_PROD_Alert Correlation ABAP 7.1++](#)

ON Active

Collection Interval

Metric Group Variants

ABAP Client	Error ID	Threshold	Changed By/Changed At	Active	Custom Created
<input type="text" value="=> x"/>	<input type="text" value="=> x"/>	Info Only		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Threshold Type: Info Only

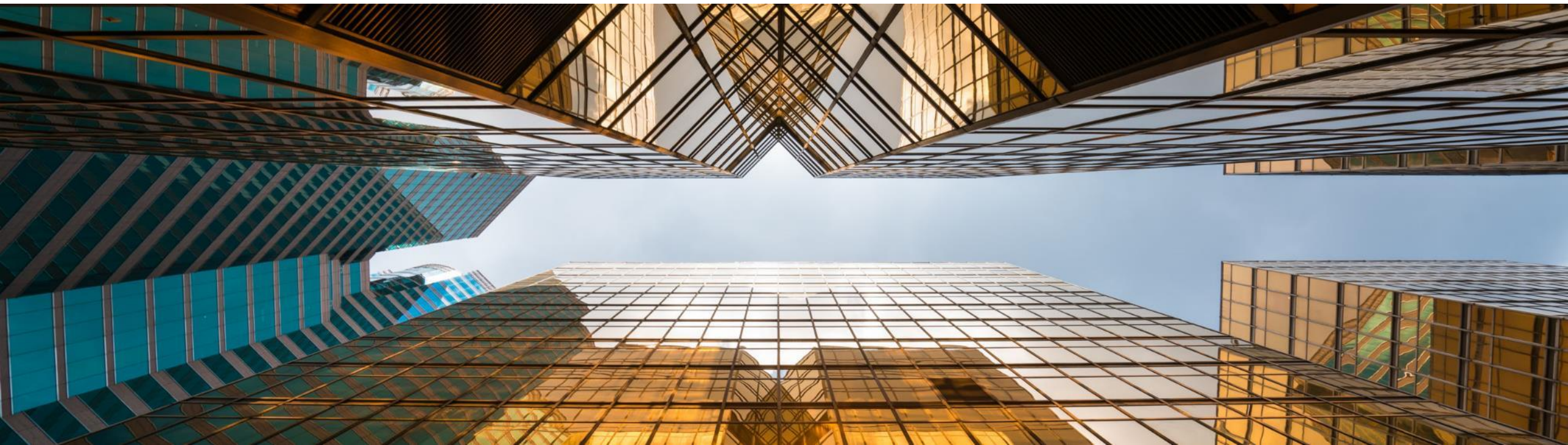
Comments:

Apply changes to Managed Object (ABAP_SRV) only
 Apply changes to (ABAP_SRV) and the selected multiple Managed Object(s)

Apply Changes Close

Analytics & Intelligence

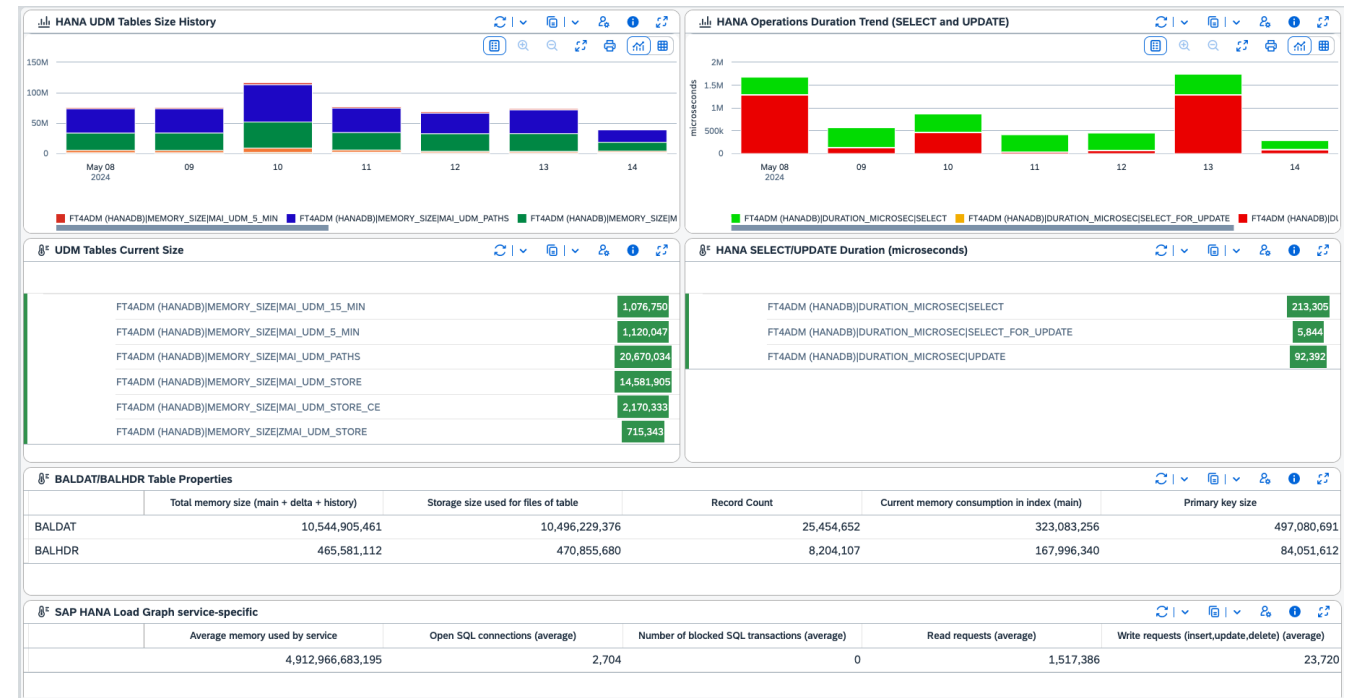
OCC Dashboard



New Root Cause Analysis Data Provider (1/2)

The RCA Data Provider can be used to display a wide range of metrics depending on the selected capability:

- ABAP Work Processes
- SAP HANA Thread Samples
- SAP HANA Long-Running Transactions
- SAP HANA Expensive Statements
- SAP HANA Component Memory
- SAP HANA Load Graph host-specific
- SAP HANA Load Graph service-specific
- SAP HANA Table Size
- SAP HANA Commit Time
- OS Process



New Root Cause Analysis Data Provider (2/2)

Every capability offers different metrics along with filters and drilldown options to customize each query

Wildcards (*) can be used in the filter. A substring search is applied if no wildcard is contained in the filter expression. Different values can be separated by a semicolon (;). A single value can be excluded by using a leading exclamation mark (!).

Filter Selection

Technical System	Metric Selection	Filters	Drilldown	Scope Selection
Drilldown (10)				
<input type="text" value="Search Drilldown"/>				
<input type="checkbox"/>	Host			
<input type="checkbox"/>	HANA Schema Name			
<input checked="" type="checkbox"/>	HANA Table Name			
<input type="checkbox"/>	Table Store Type (ROW or COLUMN)			
<input type="checkbox"/>	Partition ID			

Selection Summary

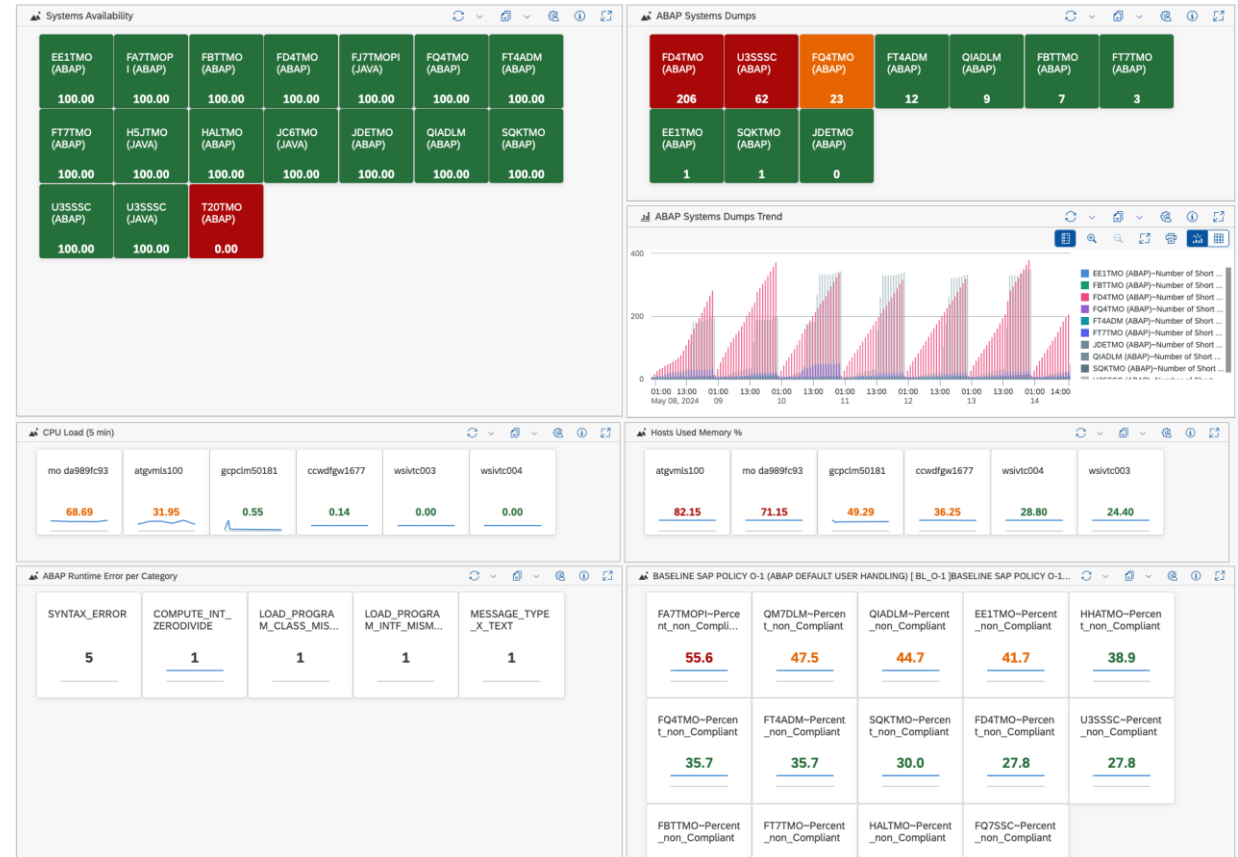
Data Provider:	Root Cause Analysis
Systems:	— FD4ADM~ABAP
Capability:	— SAP HANA Table Size
Metric:	— Record count
HANA Table Name:	— BAL*;LMDB_DS;!BALHDR
Drilldown:	— HANA Table Name

Filter Selection

Technical System	Metric Selection	Filters	Drilldown	Scope Selection
HANA Table Name (1)		Table Store Type (ROW or COLUMN) (0)	Partition ID (0)	
<input type="text" value="BAL*;LMDB_DS;!BALHDR"/>		<input type="text" value="Enter Table Store Type (ROW or COLU..."/>	<input type="text" value="Enter Partition ID"/>	

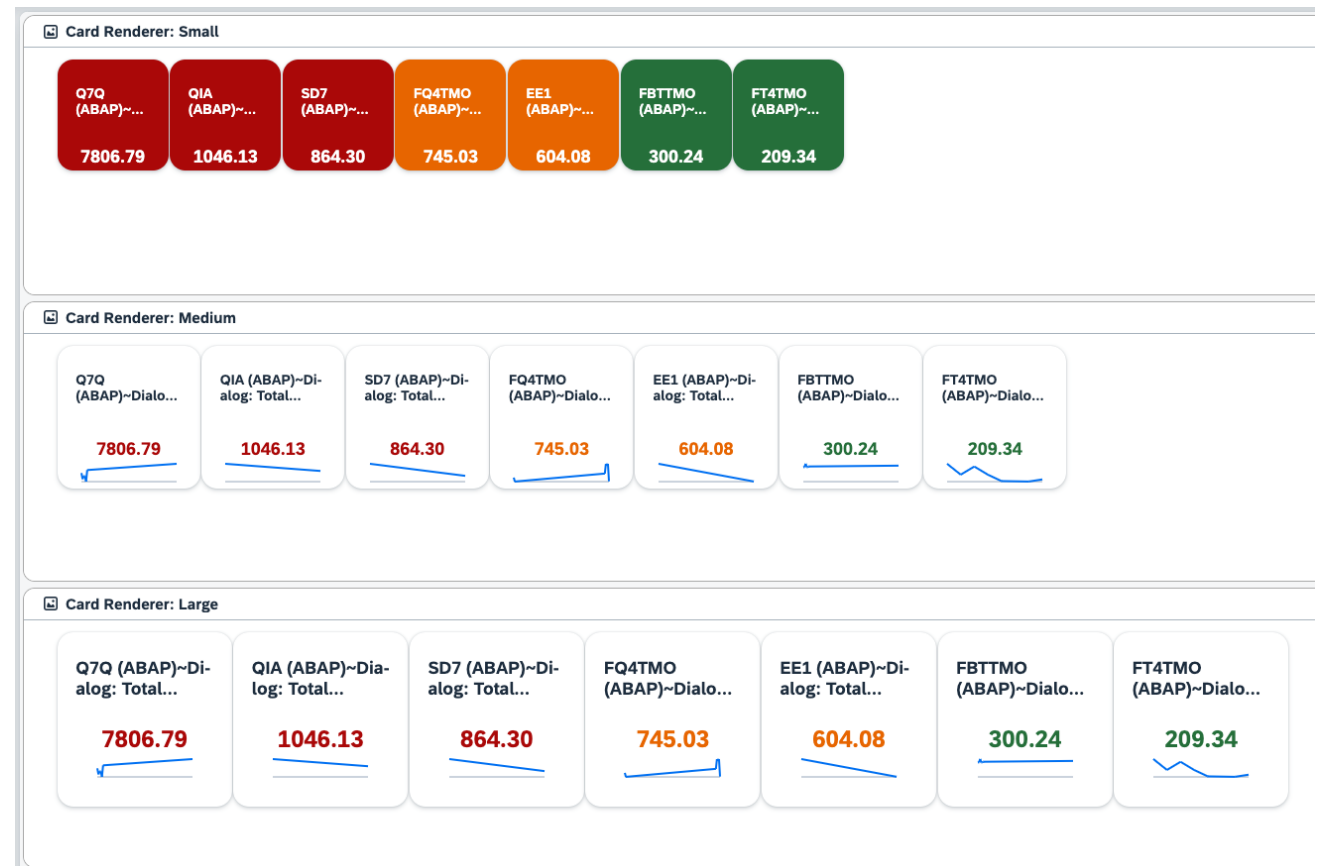
Card Chart Renderer (1/3)

The Card Chart is a new renderer that can be used to display metric values in a Tile format



Card Chart Renderer (2/3)

- The Card renderer comes in three different sizes, Small, Medium and Large
- Medium and large cards can display a micro chart
- Thresholds can be used to rate the cards using green, yellow and red colors
 - The rating is displayed differently depending on the size of the card
 - Medium and large-sized cards will display the tile value with a different color based on the thresholds
 - Small-sized cards will always display the value in white, and the background will be colored to reflect the calculated rating



Card Chart Renderer (3/3)

Configuration

- Different filter and sorting options are available in the gadget renderer configuration
- Cards can be sorted based on the label name, value or rating
- Filters can be applied to display specific ratings or values using the $>$, $=$ or $<=$ operators

The screenshot displays the configuration interface for the Card Chart Renderer. It is divided into two main sections: 'Type' and 'Card Chart Settings'.

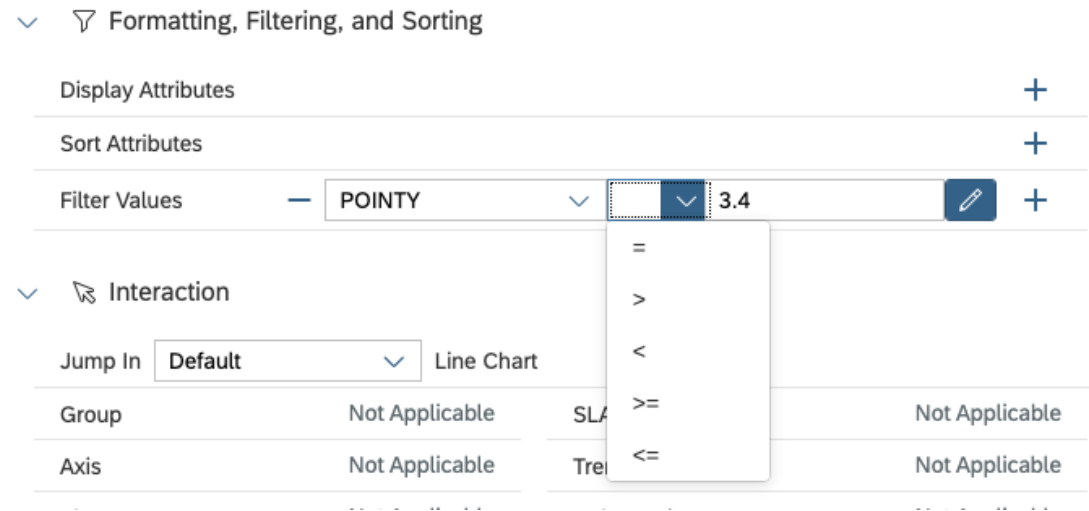
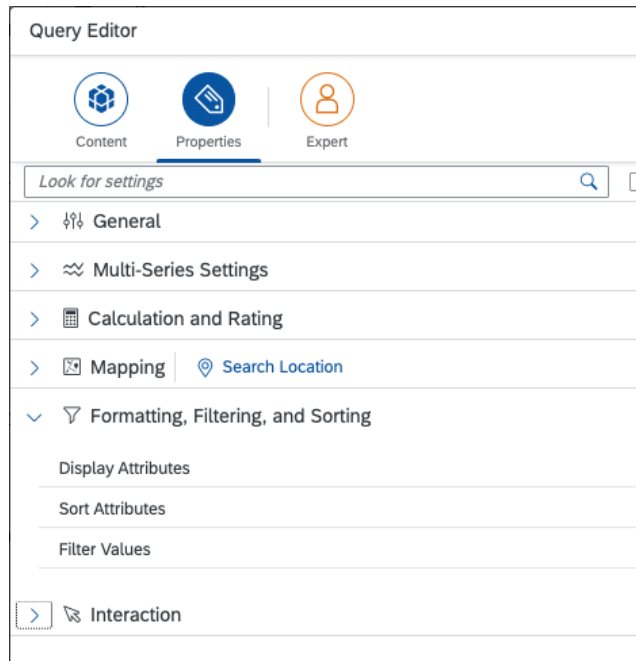
Type: This section features a dropdown menu currently set to 'All', with sub-menus for 'Charts' and 'Tables'. Below this, there is a grid of 13 selectable options, each with a representative icon: Area Chart, Bar Chart, Bar & Line C..., Line Chart, Column Chart, Column & Li..., Pie Chart, Donut Chart, Dynamic Table, History Table, SLR Table, Heatmap Ch..., Treemap Chart, Analytics Map, and Card Chart. The 'Card Chart' option is highlighted with a blue border.

Card Chart Settings: This section contains several configuration options, each with a dropdown menu or a checkbox:

- Value Sorting:** Set to 'Descending'.
- Rating Sorting:** Set to 'Worst Rating'.
- Alphabetical:** Set to 'A-Z'.
- Rating Filter:** Set to 'Red Rating'.
- Value Filter:** Set to the operator '>' and the value '800'.
- Hide Metric:** Checked (indicated by a blue checkmark).

Filter operators for DYNAMIC_TABLE renderer

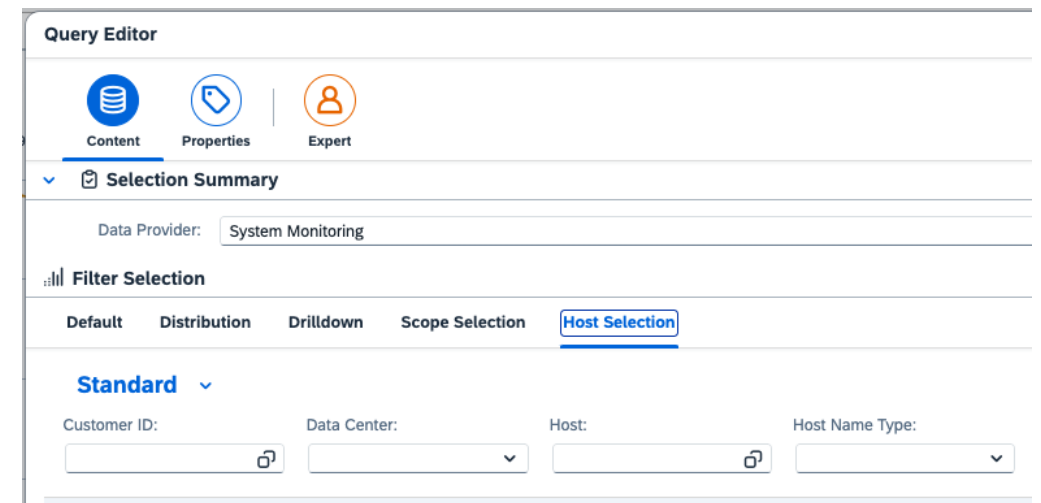
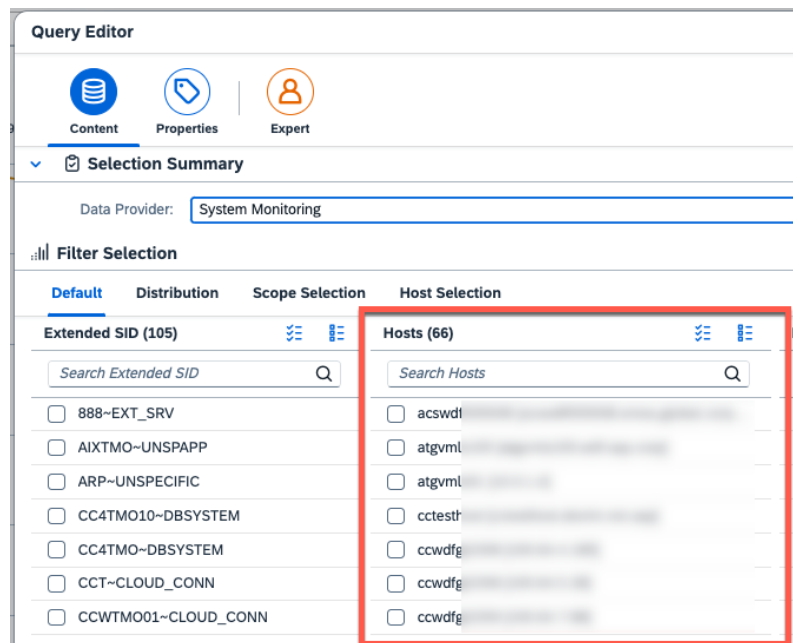
- A new set of filters are available when selecting the DYNAMIC_TABLE renderer
- These filters can be used to restrict the values displayed by the renderer using the available operators (=,>,<,>=,<=)



System Monitoring Data Provider Improvements (1/3)

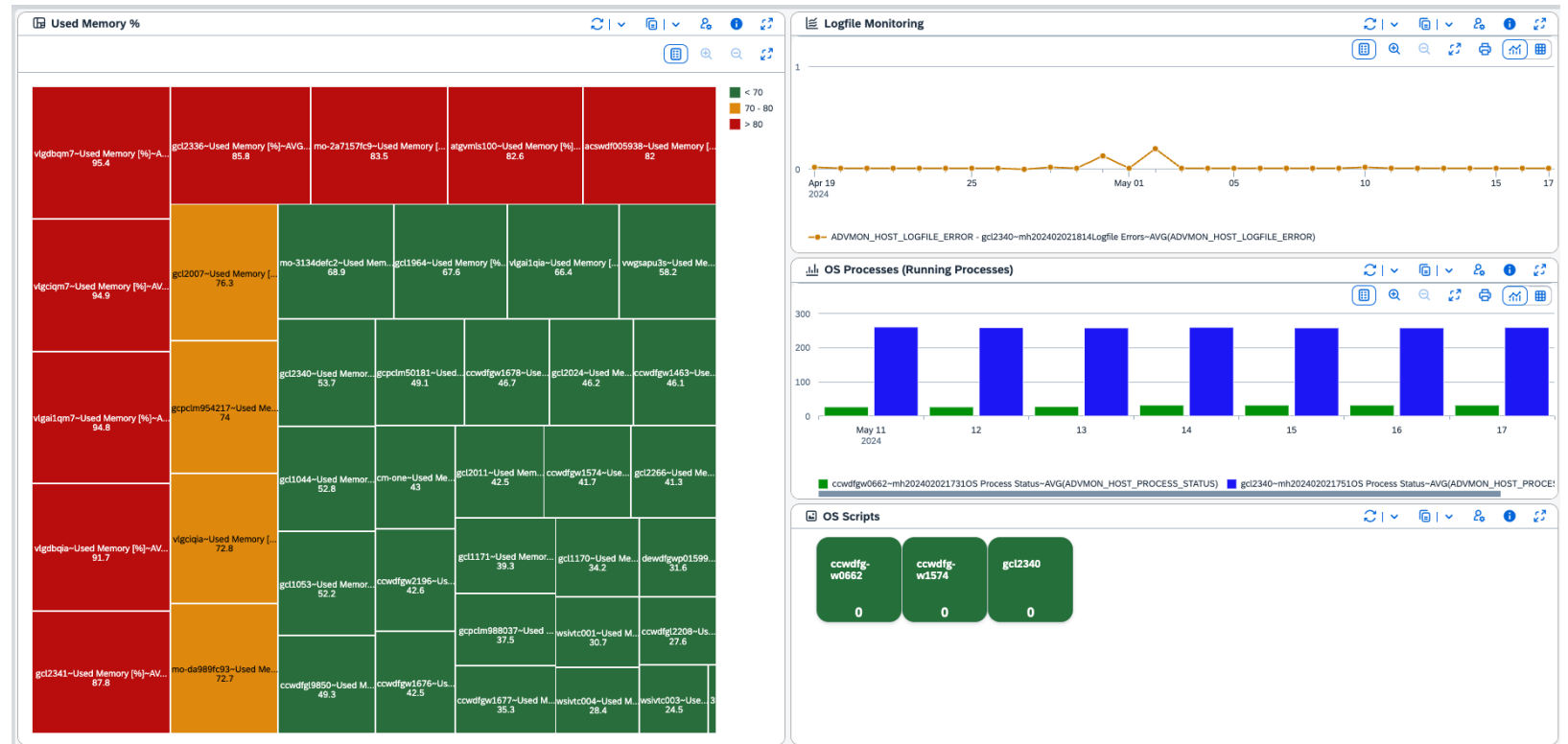
- A new Hosts filter is available under the Default tab
- This filter can be used to configure individual hosts instead of selecting the Technical System

- Hosts can be also selected using the "Host Selection" tab using "Customer ID", "Data Center", "Host" and "Host Name Type" LMDB Attributes



System Monitoring Data Provider Improvements (2/3)

Host selection makes it easier to configure metrics coming from Health Monitoring (OS Processes, Logfile Errors, OS Scripts etc.)



System Monitoring Data Provider Improvements (3/3)

- Available metrics are now visible from the start when selecting the data provider. It is not necessary to select a system from the Extended SID filter tab in order to see them

- The list of metrics will be adapted based on the selected system type (ABAP, Java, HANA, etc.).

The screenshot shows the 'Query Editor' interface with the 'Filter Selection' tab active. The 'Data Provider' is set to 'System Monitoring'. The interface is divided into three main sections: 'Extended SID (105)', 'Hosts (66)', and 'Metrics (1270)'. The 'Metrics (1270)' section is highlighted with a red box and contains a list of metrics such as '* [ASE_TOTAL_DATA_OTHERS]', '* [ASE_USED_DATA_OTHERS_PCT_GRP]', and 'ABAP Dialog work processes in PRIV mode [%] [ABAP_DIALOG_WORK_PROCESSES_IN]'. The 'Extended SID' and 'Hosts' sections also contain lists of system identifiers and hostnames.

The screenshot shows the 'Filter Selection' interface with the 'Default' tab active. The 'Data Provider' is set to 'System Monitoring'. The interface is divided into three main sections: 'Extended SID (2)', 'Hosts (66)', and 'Metrics (291)'. The 'Metrics (291)' section is highlighted with a red box and contains a list of metrics such as 'ABAP Dialog work processes in PRIV mode [%] [ABAP_DIALOG...', 'ABAP Enqueue Lock Arguments [abap.scs.enqueue.arguments]', and 'ABAP License Expiry'. The 'Extended SID' and 'Hosts' sections also contain lists of system identifiers and hostnames.

Color Chart based on thresholds

- A new “Value Mapping” Option is available in the Chart Settings when selecting a column or bar chart

- When the option is selected, the color of the bars will change to green, yellow or red depending on the the configured thresholds

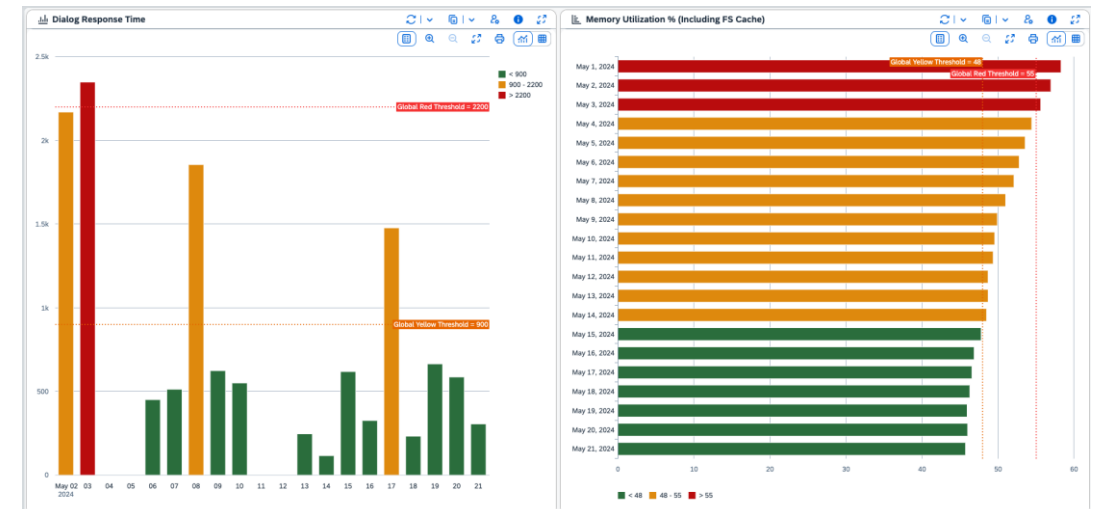
Thresholds

Value Mapping:

Yellow: +

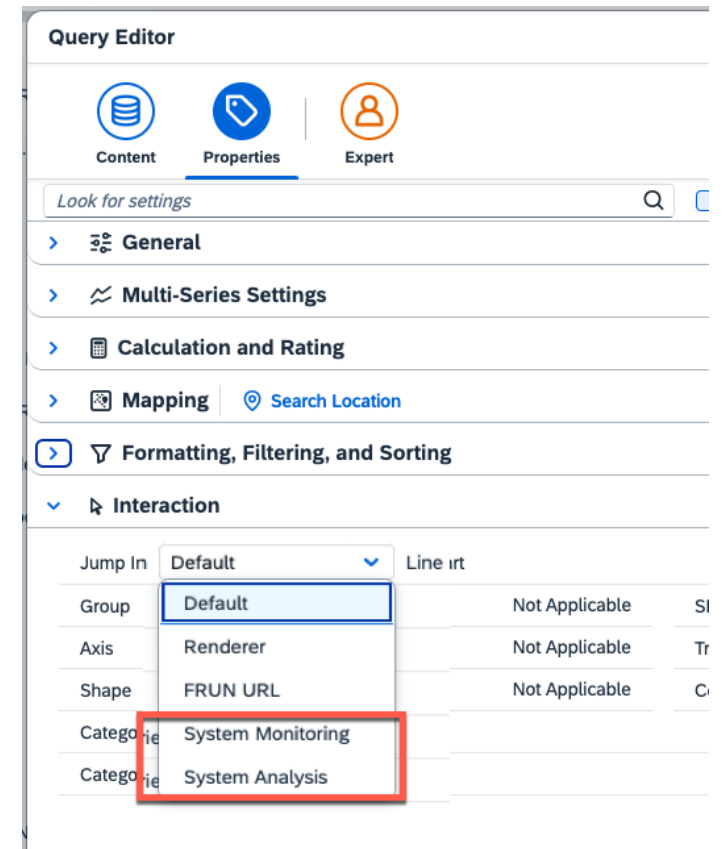
Red: +

Groups Name* +



Context aware Jump-in to System Monitoring and System Analysis

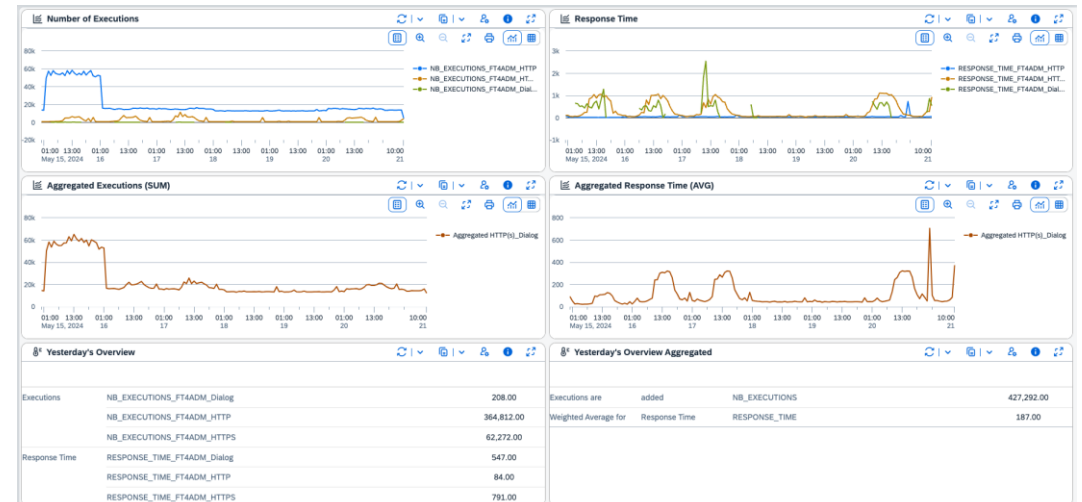
- Two new interaction options are available when configuring the System Monitoring Data Provider
- These option can be used to define what will happen when clicking on the chart displayed by the gadget, a jump-in to System Monitoring or System Analysis applications
- Unlike the existing generic “FRUN URL”, both System Monitoring and System Analysis options will use context information to target the selected technical system in the destination application



Request Type Aggregation in RUM Request Overview DP

- The Real User Monitoring - Request Type Overview data provider implements a default drilldown on requests type
- This default drilldown can now be adjusted for customization using the new “Request Type Aggregation” tab
- The aggregation method will be a simple sum for metrics related to number of executions and a weighted average for response times

The screenshot shows the 'Query Editor' interface for 'Real User Monitoring - Request Type Overview'. Under the 'Filter Selection' tab, there are three filter groups: 'Extended SID (19)', 'Request Types (9)', and 'Aggregation Method (2)'. A fourth group, 'Request Type Aggregation (2)', is highlighted with a red box and contains two radio buttons: 'Yes' (selected) and 'No'.



Minor Changes

- A transpose option is now available for the SLR Renderer

▼  **SLR Table Settings**

Hide Metric:

Hide System:

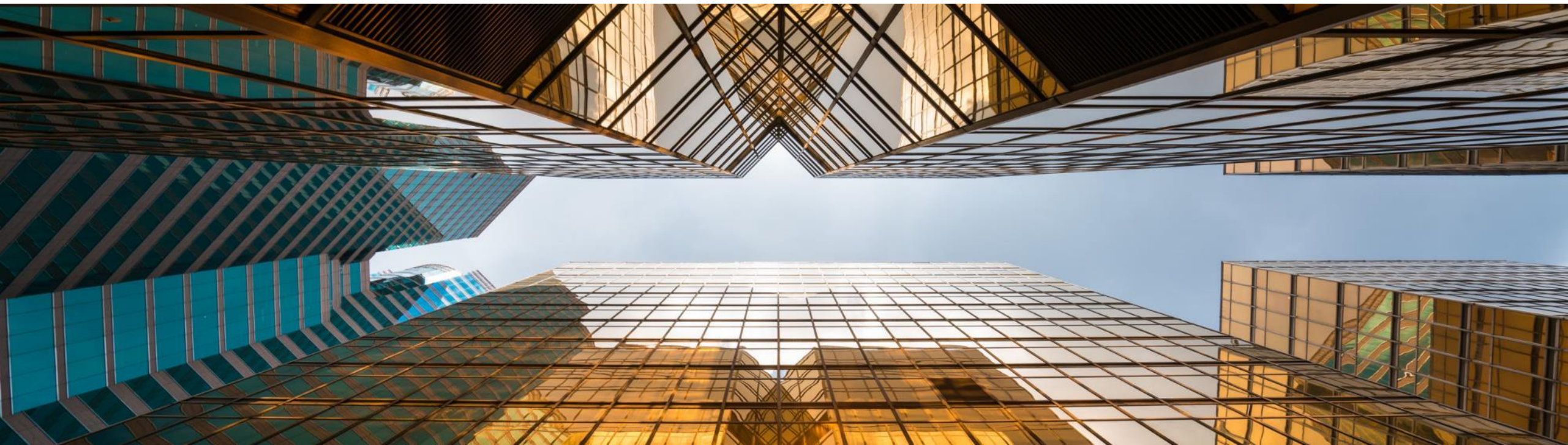
Transpose:

Demo: OCC Dashboard



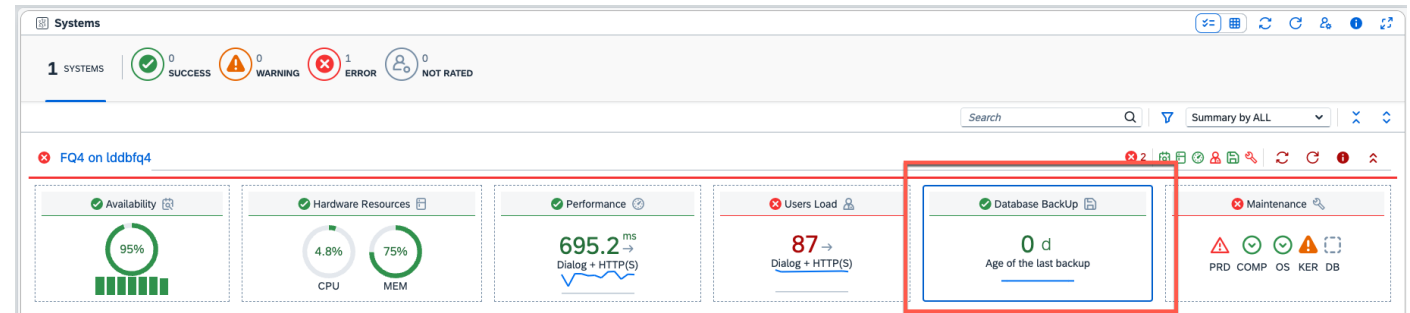
Analytics & Intelligence

Tactical Dashboard



Backup Details for HANA Database

- A new detail view is available for HANA Databases in the Backup Scenario
- The new view provides a list of the last backups taken from the M_BACKUP_CATALOG table
 - Only backups newer than 1 year are considered
 - The list is limited to 1000 entries
- Following attributes are displayed
 - Status
 - Start Time
 - Backup Type
 - Duration
 - Size
 - Destination Type
 - Comment
- A prerequisite for the HANA Detailed view is the installation of the [SapHostAgent 7.22 PL64](#)



The screenshot shows the SAP HANA Database BackUp details view for system 'FQ4 on lddbfq4'. It displays a table with columns: Status, Start Time UTC, Backup Type, Duration, Size, Destination Type, and Comment. The table lists 20 backup entries.

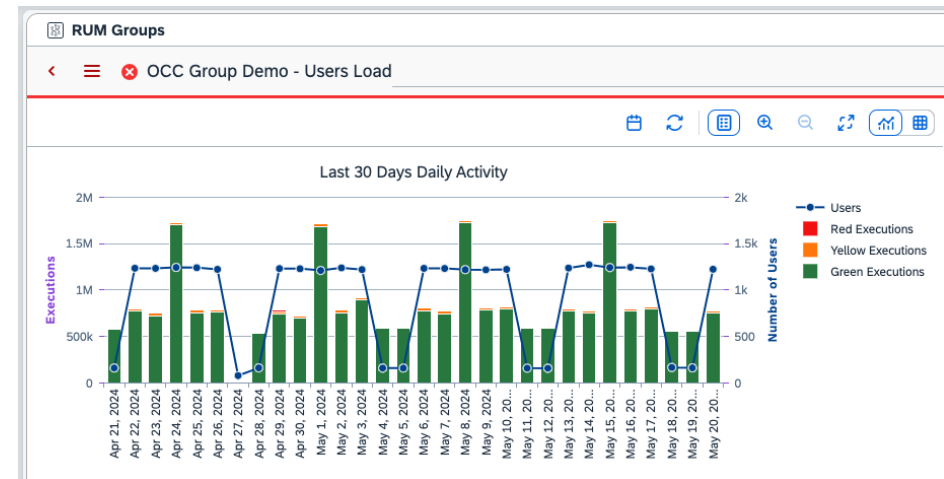
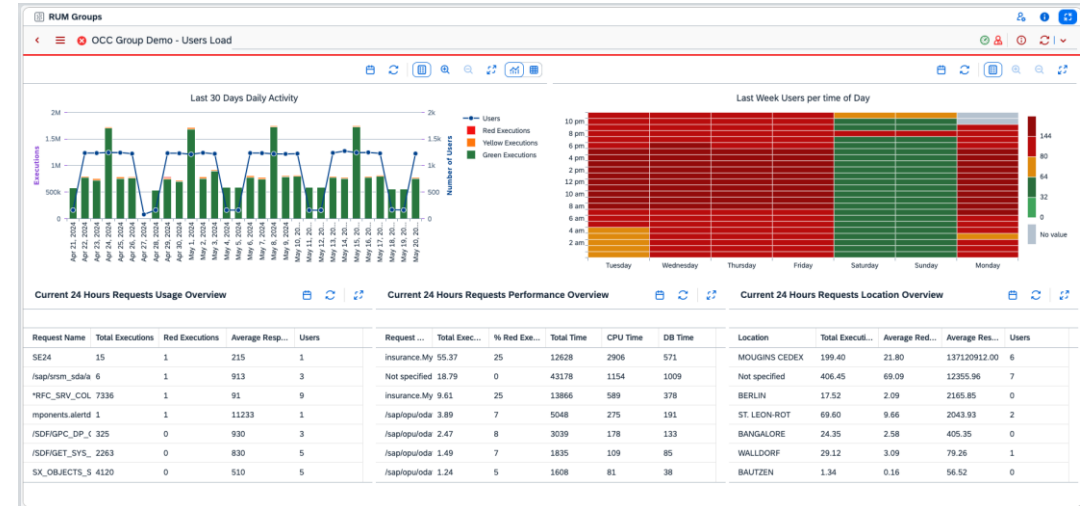
Status	Start Time UTC	Backup Type	Duration	Size	Destination Type	Comment
successful	21/5/2024 2:29 AM	differential data backup	30 min 9 sec	242.88 GB	backint	
successful	20/5/2024 2:29 AM	differential data backup	18 min 55 sec	202.06 GB	backint	
successful	19/5/2024 2:29 AM	differential data backup	18 min 3 sec	190.02 GB	backint	
successful	18/5/2024 2:29 AM	differential data backup	25 min 7 sec	179.95 GB	backint	
successful	17/5/2024 2:29 AM	differential data backup	10 min 58 sec	114.72 GB	backint	
successful	16/5/2024 2:29 AM	differential data backup	17 min 32 sec	106.42 GB	backint	
successful	15/5/2024 1:57 AM	complete data backup	49 min 38 sec	637.27 GB	backint	
successful	14/5/2024 11:29 PM	differential data backup	27 min 57 sec	196.00 GB	backint	
successful	13/5/2024 11:29 PM	differential data backup	21 min 56 sec	173.41 GB	backint	
successful	12/5/2024 11:29 PM	differential data backup	26 min 45 sec	163.31 GB	backint	
successful	11/5/2024 11:29 PM	differential data backup	21 min 4 sec	128.33 GB	backint	
successful	10/5/2024 11:29 PM	differential data backup	21 min 14 sec	100.50 GB	backint	
successful	9/5/2024 11:29 PM	differential data backup	12 min 29 sec	58.52 GB	backint	
successful	8/5/2024 11:29 PM	complete data backup	56 min 11 sec	637.16 GB	backint	
successful	7/5/2024 11:29 PM	differential data backup	31 min 21 sec	199.61 GB	backint	
successful	6/5/2024 11:29 PM	differential data backup	25 min 41 sec	173.33 GB	backint	
successful	5/5/2024 11:29 PM	differential data backup	23 min 30 sec	137.95 GB	backint	
successful	4/5/2024 11:29 PM	differential data backup	19 min 46 sec	109.77 GB	backint	
successful	3/5/2024 11:29 PM	differential data backup	15 min 26 sec	90.83 GB	backint	
successful	2/5/2024 11:29 PM	differential data backup	17 min 58 sec	83.44 GB	backint	

More
[20 / 50]

Improved User Load detail in RUM View (1/2)

- Several changes have been implemented in different areas of the User Load detail of the RUM view in Tactical Dashboard

- Last 30 Days Daily Activity
 - Total and Red executions have been replaced with Red, Yellow and Green stacked columns



Improved User Load detail in RUM View (2/2)

- Tables displaying user-related metrics at the bottom of the detailed view have been renamed, and the content has been adjusted accordingly to provide more consistent information.

Current 24 Hours Requests Usage Overview					Current 24 Hours Requests Performance Overview						Current 24 Hours Requests Location Overview				
Request Name	Total Executions	Red Executions	Average Resp...	Users	Request ...	Total Exec...	% Red Exe...	Total Time	CPU Time	DB Time	Location	Total Executi...	Average Red...	Average Res...	Users
SE24	15	1	215	1	insurance.My	55.37	25	12628	2906	571	MOUGINS CEDEX	199.40	21.80	137120912.00	6
/sap/srsm_sda/a	6	1	913	3	Not specified	18.79	0	43178	1154	1009	Not specified	406.45	69.09	12355.96	7
*RFC_SRV_COL	7336	1	91	9	insurance.My	9.61	25	13866	589	378	BERLIN	17.52	2.09	2165.85	0
mponents.alertd	1	1	11233	1	/sap/opu/oda	3.89	7	5048	275	191	ST. LEON-ROT	69.60	9.66	2043.93	2
/SDF/GPC_DP_C	325	0	930	3	/sap/opu/oda	2.47	8	3039	178	133	BANGALORE	24.35	2.58	405.35	0
/SDF/GET_SYS_	2263	0	830	5	/sap/opu/oda	1.49	7	1835	109	85	WALLDORF	29.12	3.09	79.26	1
SX_OBJECTS_S	4120	0	510	5	/sap/opu/oda	1.24	5	1608	81	38	BAUTZEN	1.34	0.16	56.52	0

Root Cause Analysis

System Analysis





System Analysis

• HANA NSE Support for RCA Capabilities

- RCA data is switched to NSE by RCA housekeeping after some days to **reduce HANA memory footprint** in FRUN
- Retention time in memory is configurable per capability (SM30 view RCA_HKCONFIG)

RCA Housekeeper Configuration					
	Store Table Name	Partition Field Name	Lifespan	In Memory	Collector
<input type="checkbox"/>	RCA_GS_DATA	DATA_DATE	0370	0003	CL_RCA_GS_INBOUND
<input type="checkbox"/>	RCA_GS_LOG	LOG_DATE	0030	0001	CL_RCA_GS_INBOUND
<input type="checkbox"/>	RCA_HANA_CT	DATUM	0021	0003	m_log_partitions
<input type="checkbox"/>	RCA_HANA_ES_AGGR	DATUM	0021	0003	M_EXPANSIVE_STATEMENTS
<input type="checkbox"/>	RCA_HANA_LOAD_H	DATUM	0042	0003	M_LOAD_HISTORY_HOST
<input type="checkbox"/>	RCA_HANA_LOAD_S	DATUM	0042	0003	M_LOAD_HISTORY_SERVICE
<input type="checkbox"/>	RCA_HANA_LRT	DATUM	0021	0003	HANA_LongRunningTransactions
<input type="checkbox"/>	RCA_HANA_MEMCOMP	DATUM	0090	0032	M_SERVICE_COMPONENT_MEMORY
<input type="checkbox"/>	RCA_HANA_TAB_SIZ	DATUM	0370	0092	HANA_TABLE_SIZE
<input type="checkbox"/>	RCA_HANA_TS_AGGR	DATUM	0042	0003	M_SERVICE_THREAD_SAMPLES
<input type="checkbox"/>	RCA_INBOUND_LOG	UTC_DATE	0030	0003	CL_RCA_REST_HANDLER
<input type="checkbox"/>	RCA_OS_PROCESS	DATUM	0014	0003	SAP_ITSAMOSProcess
<input type="checkbox"/>	RCA_SMON_WP_AGGR	DATUM	0021	0001	/SDF/SMON_WPININFO_AGGR

Root Cause Analysis

Configuration & Security Analysis



Configuration & Security Analysis



- **Policies**

Empty lines in front of or after comments will be removed

- **CCDB**

Config Store COMP_LEVEL (S00120) field SP_INST_TS added.

SP_INST_TS is only filled for SPs of ABAP; information is read from the ABAP table PAT03

- **ST-A/PI (Release W)**

- Extractor "CMD_USER_CHANGE_DOC". Implement package wise data extraction.

- Changelog (Global, namespace and component change setting Change log):
CMD_TRLOG_SYSTEM – added sort and delete duplicates comparing all fields.

```
12 <compliant>(  
13  
14  
15 <!-- SAP_ABA 700   SAPKA70042 -->  
16  
17 ( COMPONENT = 'SAP_ABA' and VERSION = '700' and not( (1pad(SP,4,'0')) &lt; '0042' ) )  
18 or  
19  
20  
21 <!-- SAP_ABA 701   SAPKA70127 -->  
22  
23  
24  
25 ( COMPONENT = 'SAP_ABA' and VERSION = '701' and not( (1pad(SP,4,'0')) &lt; '0027' ) )  
26 or
```

COMPONENT = SAP_ABA	VERSION = 750 SP = 0028 SP_REL_DATE = 20230830 PATCH = VENDOR = sap.com SP_INST_TS = 20240319145654
COMPONENT = SAP_BASIS	VERSION = 750 SP = 0028 SP_REL_DATE = 20230830 PATCH = VENDOR = sap.com SP_INST_TS = 20240319145653

Operation Automation





Operations Automation (Guided Procedures)

- You can define manual activities with **predefined inputs**. When a user processes the guided procedure he has to fill the input fields and select save.
- The responses are stored in a guided procedure instance specific storage (**guided procedure context**)
- APIs are provided so that customer developed activities can **read from and write to** the guided procedure **context**

The screenshot displays the SAP Guided Procedures interface. The main window is titled "Guided Procedure Instances" and shows a procedure named "Resolve IDocs in Error State (02 Passing Data to Port)". The procedure is currently in an error state, indicated by a red warning icon. The left sidebar shows a list of activities, including "Check Error" and "Select identified error message". The main content area shows the "Select identified error message" step, which is currently in a "Success" state. The "Input" section contains a dropdown menu for "Error Message" with the following options: "Could not find code page for receiving system", "Port does not exist in the table of port descriptions", "Could not find code page for receiving system", "Segment is unknown in Release 701", and "Other". The "Logs" section shows a log entry for the activity "S QM7DLM-ABAP" with the message "The following input was provided: Error Message: Could not find code page for receiving system".

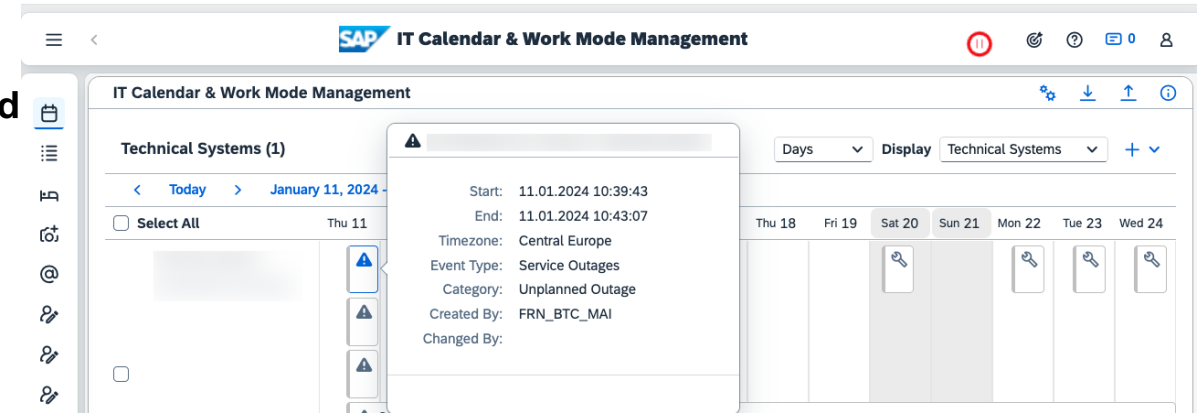
Service Level Management



Service Level Management

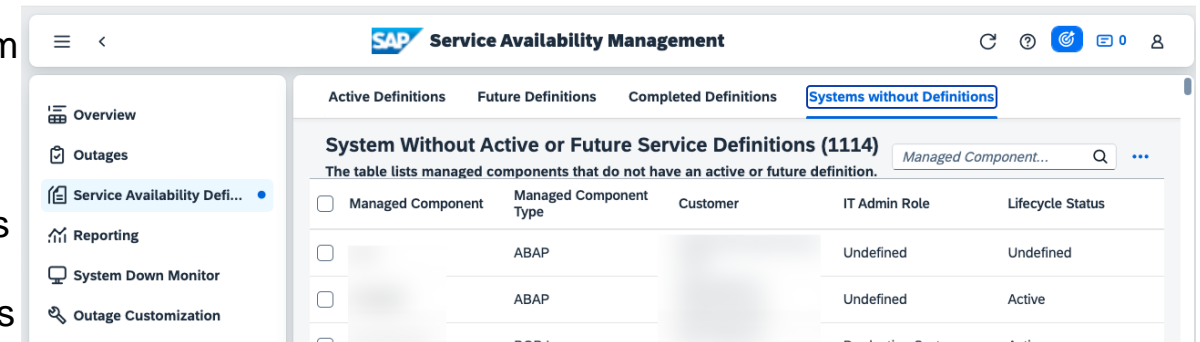
IT Calendar & Workmode Management

- In addition to planned events, IT Calendar displays also **unplanned outages** reported by Service Availability Management now. The unplanned outages become visible in IT Calendar as soon as they are completed.



Service Availability Management

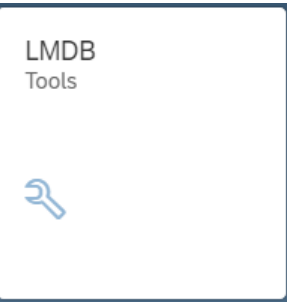
- The Service Availability Management UI shows in addition to the system name and system type the **short description** of the system if maintained in LMDb.
- Service Availability management will **create outages from self monitoring alert "Simple Diagnostic Agent is not available"**.
- The creation and maintenance of service availability definitions has been improved.
 - It is possible to **edit multiple service availability** definitions together.
 - It is possible to **identify systems and services without or soon ending service availability definitions**.



Infrastructure Administration



Landscape Management



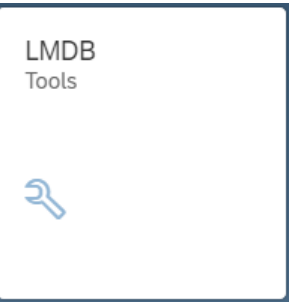
- **Extend Scope Selection and LMDB Filter Bar for Cloud Services:**

- You can now also filter by Cloud Service type and Cloud Service tenant name

The screenshot shows the SAP LMDB Tools interface. At the top, there's a header with the SAP logo and "LMDB Tools". Below it, a "Technical Systems" section contains a filter bar. The filter bar includes fields for Customer ID, Data Center, Extended System ID, System Type (set to "External Ser..."), Lifecycle Status, and IT Admin Role. Below these are fields for Customer Network, Cloud Service Type (set to "SAP BTP CL..."), and Tenant Name. A "Go" button and "Hide Filter Bar" link are on the right, along with a "Filters (2)" indicator. Below the filter bar is a table titled "Technical Systems (30 / 30)" with a search bar and several icons. The table has columns for Ext. System ID, Data Center, Customer, System Database, Data Supplier Completeness, and Consistency Check. One row is visible for "BSAPP_BU" with Data Center "ROT" and Customer "CloudALM_Landscape_Import LDB".

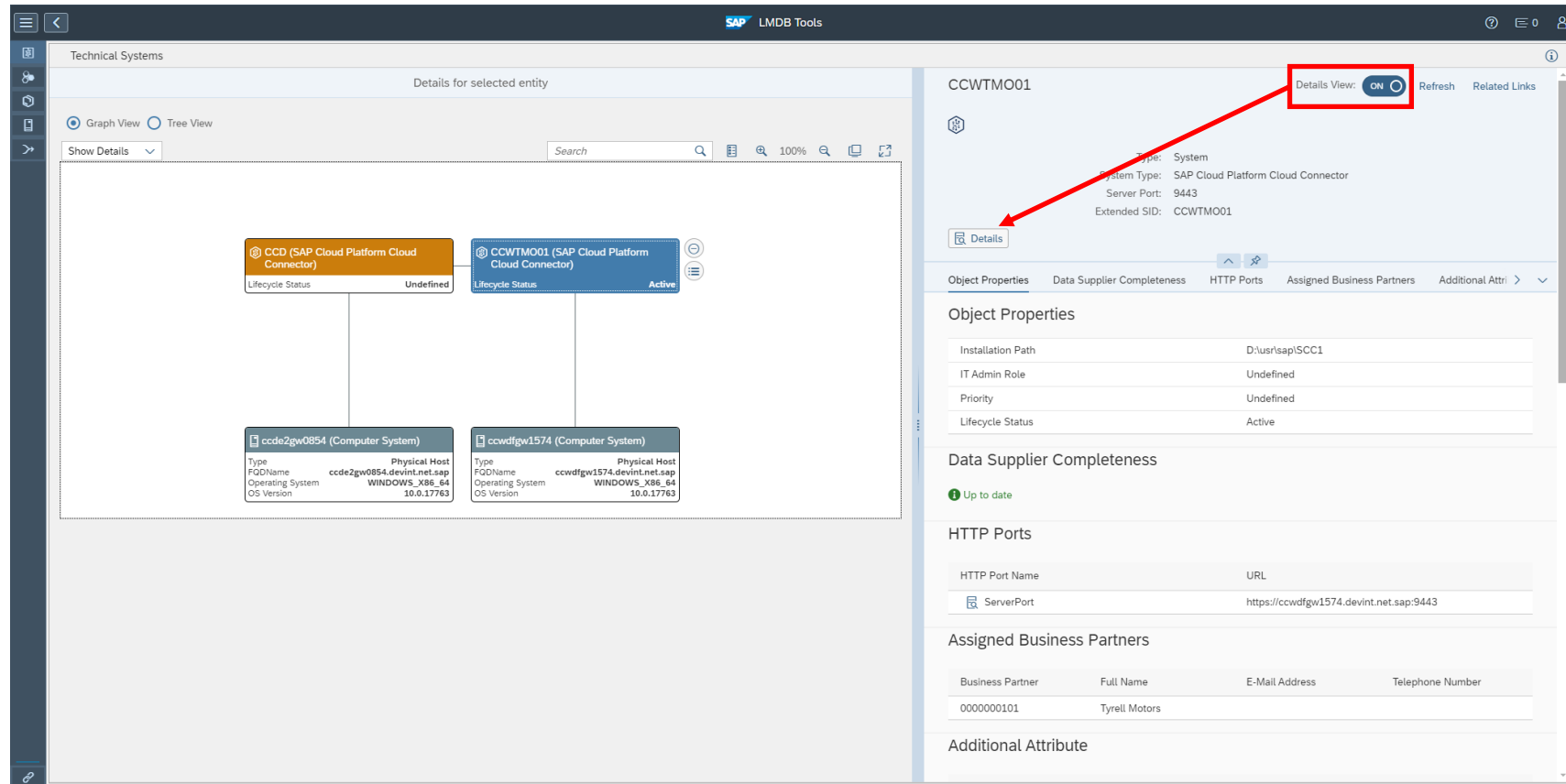
Ext. System ID	Data Center	Customer	System Database	Data Supplier Completeness	Consistency Check
BSAPP_BU	ROT	CloudALM_Landscape_Import LDB		Not yet supported	Not yet supported

Landscape Management

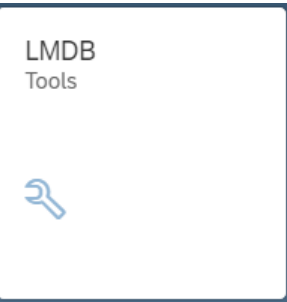


- **Extension of the new Graphical UI in LMDB Tools to all system types**

- The UI is now available for all system types
- The UI now contains a new detail view



Landscape Management



- **Extended filtering in LMDB Tools:**

- You can now search for systems w/ outdated and missing data suppliers
- You can now search for systems w/ specific consistency check results

The screenshot displays the LMDB Tools interface for managing technical systems. At the top, a search bar is present with a filter icon highlighted by a red box. Below the search bar, a green header indicates the current filter: "Filtered by: Data Supplier Category (ABAPInstanceKernel), Data Supplier Status (Outdated)".

Ext. System ID	Data Center	Customer	System Database	Data Supplier Completeness
FQ7SSC Application Server ABAP System Number: 00000000850118048 Installation Number: 0020270862	CH1	CH1-SSC-01 SSC	FQ7SSC SAP HANA Database	Outdated Last Check: 03.05.2024
HHATMO Application Server ABAP System Number: 00000000850148632 Installation Number: 0020270862	ROT	ROT-TMO-03 TMO	H40TMOV SAP HANA Database	Outdated Last Check: 03.05.2024
RUNTMO Application Server ABAP System Number: INITIAL_SYSTEM_IDX Installation Number: INITIAL	ROT	ROT-TMO-03 TMO	RUNTMOV Database System	Outdated Last Check: 03.05.2024
U3SSSC Application Server ABAP	CH1	CH1-SSC-01 SSC	U3SSSC Database System	Outdated Last Check: 03.05.2024

The filter sidebar on the right, titled "Filter by Data Supplier / Consistency Checks", includes the following options:

- Data Supplier Category: ABAPInstanceKernel
- Data Supplier Status: Outdated
- Data Supplier last processed before: Enter Date
- Consistency Check Category: (empty)
- Consistency Check Status: (empty)

Buttons for "Reset" and "Close" are located at the bottom of the sidebar.



Landscape Management

- **Public APIs for Landscape Management:**

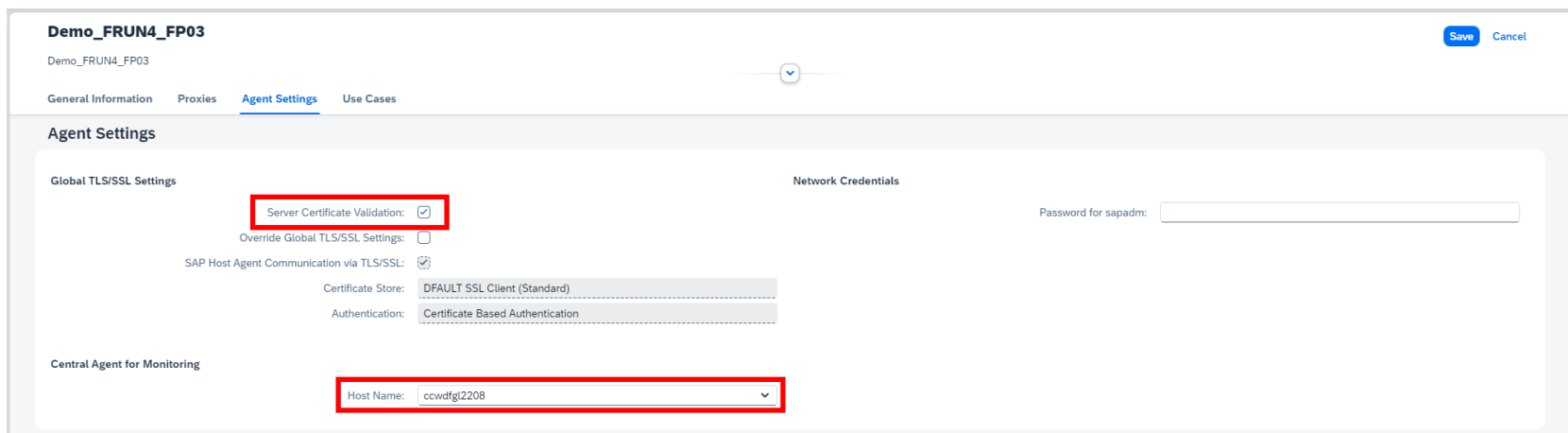
- Enhancement to the **public** REST API
 - Search for technical instances for ABAP, Java, and HANA systems is possible now
- Find the API documentation here: [LMDB Public REST API \(sap.com\)](https://sap.com)

- **Other :**

- New API to support maintaining system properties for hosts via SSI Webservice
- Recognize SAP Cloud Connector Landscape Changes
- New improved naming patterns for SAP HANA Tenant / SAP HANA System DB long SIDs

Simple System Integration

- **Simple System Integration Improvements:**
 - SSI now performs a credentials check for the entered values before starting the configuration for all system types, except SAP BusinessObjects
- **Global Settings & Network Configuration Improvements:**
 - Central configuration of the server certificate validation replaces the formerly necessary curl command per agent
 - It is now possible to define a central data collection agent per customer network



- **Other :**
 - The web service operation TECHNICAL_SYSTEM_SET_PROPERTIES was extended by the method HOST_SET_PROPERTIES to support the maintenance of LMDB customer attributes for hosts



Cloud Service Management

Note: The definition of cloud services should be imported from SAP Cloud ALM via Landscape Sync

- **Cloud Service Management enhancements :**

- Endpoints now have a “Use Case”. The Use Case replaced the “API Type” which was used for some cloud service types

Cloud Service Management - Create HTTP Endpoint

Global

Environment: Neo

API Root URL: *

Description: *

Use Case: *

- Exception Monitoring
- Health Monitoring
- Real User Monitoring
- Trace Analysis

Authentication

Type: *

OAuth URL: *

Client ID: *

Client Secret: *

Proxy

Host: *

Port: *

Save Cancel

- **New Content :**

- SAP Variant Configuration and Pricing, SAP Order and Delivery Scheduling, SAP Cell and Gene Therapy Orchestration, SAP Ariba Category Management and SAP Cloud Integration for Data Services are now imported via the Landscape Sync

- **Other :**

- Performance improvements in the Cloud Service Management UI when loading a high number of cloud services

Self Monitoring



Improvement MAI Data Quality page:

- Renamed columns: Collector Errors to Systems with Collector Errors and Grey Metrics to Systems with Grey Metrics.

Type	Systems	Relevant Active Metrics	Systems with Collector Errors	Systems with Grey Metrics
Application Server ABAP	1	3	0 0%	0 0%
SAP HANA Database	1	3	1 100.0%	0 0%

- All relevant active metrics: For each system type, you can view all the ratings for the defined metrics of that system. To view this, drill down to the Metric Details of the system and select the Show all relevant active metrics check box.

Metric Name	Managed Object Name	Where Used	Customer Network	Rating	Last Collection	Value Text
HDB Daemon Status	(HANADB)	(ABAP)	LOCALNETWORK (LOCALNETWORK)	Collector error	Less than a minute ago	Rated grey due to not enough valid ratings in the certain...
HDB Connectivity Status	(HANADB)	(ABAP)	LOCALNETWORK (LOCALNETWORK)	Collector error	Less than a minute ago	Rated grey due to not enough valid ratings in the certain...
Disk Usage	(HANADB)	(HANADB)	LOCALNETWORK (LOCALNETWORK)	Green	Less than a minute ago	

- Context sensitive metrics: For a selected scope, context sensitive relevant metrics are now displayed.

Self Monitoring



Improvement Simple DA page

- Scope Selection for hosts is now available and utilized for Self Monitoring page **Simple DA**

The screenshot displays the 'Simple DA' page with a 'Scope Selection' dialog box open. The dialog box has a title bar with a target icon and the text 'Scope Selection'. Below the title bar, there are two tabs: 'Technical Systems' and 'Hosts', with 'Hosts' being the active tab. The main content area of the dialog box features a 'Standard' dropdown menu on the left. To the right of this menu are three buttons: 'Go', 'Hide Filter Bar', and 'Filters'. Below these elements, there are four input fields: 'Customer ID' (a text input with a copy icon), 'Data Center' (a dropdown menu), 'Host' (a text input with a copy icon), and 'Host Name Type' (a dropdown menu).

Self Monitoring



Self Monitoring Content

- Support for **Expert Scheduling Management** in Central Components section. Currently 3 metrics are available (Records processed by the task / Task status / Banned task)

Overview			
Simple DA			
MAI Data Quality			
CA APM/Introscope			
Managed Systems			
Central Components			
+ Add Custom Page			

Expert Scheduling Management		✖	1 Alert(s) in Alert Inbox
Expert Scheduling Management ⓘ		✖	
Records Processed By The Task ⓘ		✖	
Task Status ⓘ		📊	No Value reported
Banned Task ⓘ		✖	

- Support for **Health Monitoring** in Central Components section. Currently 2 metrics are available (Event Calculation Job / Housekeeping Job)

Health Monitoring		✖	1 Alert(s) in Alert Inbox
Job Status ⓘ		✖	
Event Calculation Job 📊 ⓘ		✔	Event Calculation job is scheduled. Last run was successful
Housekeeping Job 📊 ⓘ		✖	Housekeeping job is scheduled. Last run was cancelled

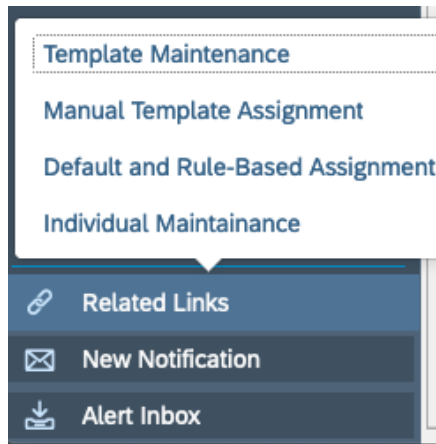
- Including Simple DA metrics in Self Monitoring template for Introscope, to cover SDA Availability also on standalone Enterprise Manager hosts.

Self Monitoring



Self Monitoring Dashboard

- Introducing new section “Related Links” for several useful applications related to Self Monitoring. Including direct access to Template Maintenance for Self Monitoring.



Thank you.

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SAP Focused Run Expert Portal:
<https://support.sap.com/en/alm/sap-focused-run/expert-portal.html>

