



SAP Focused Run

- News with Release 5.0 SP00 -

Product Management of SAP Focused Run
December 2024

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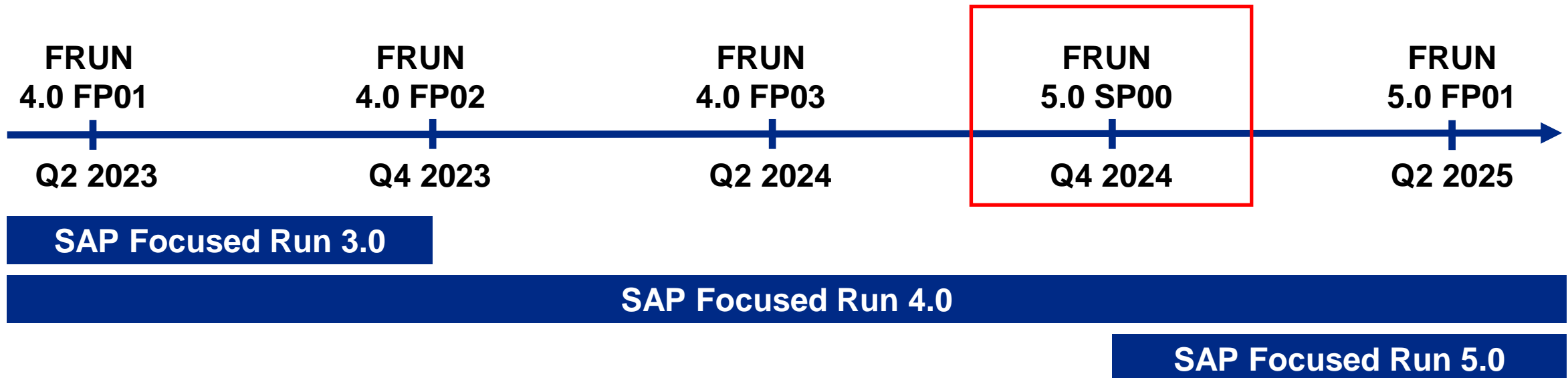
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Overview

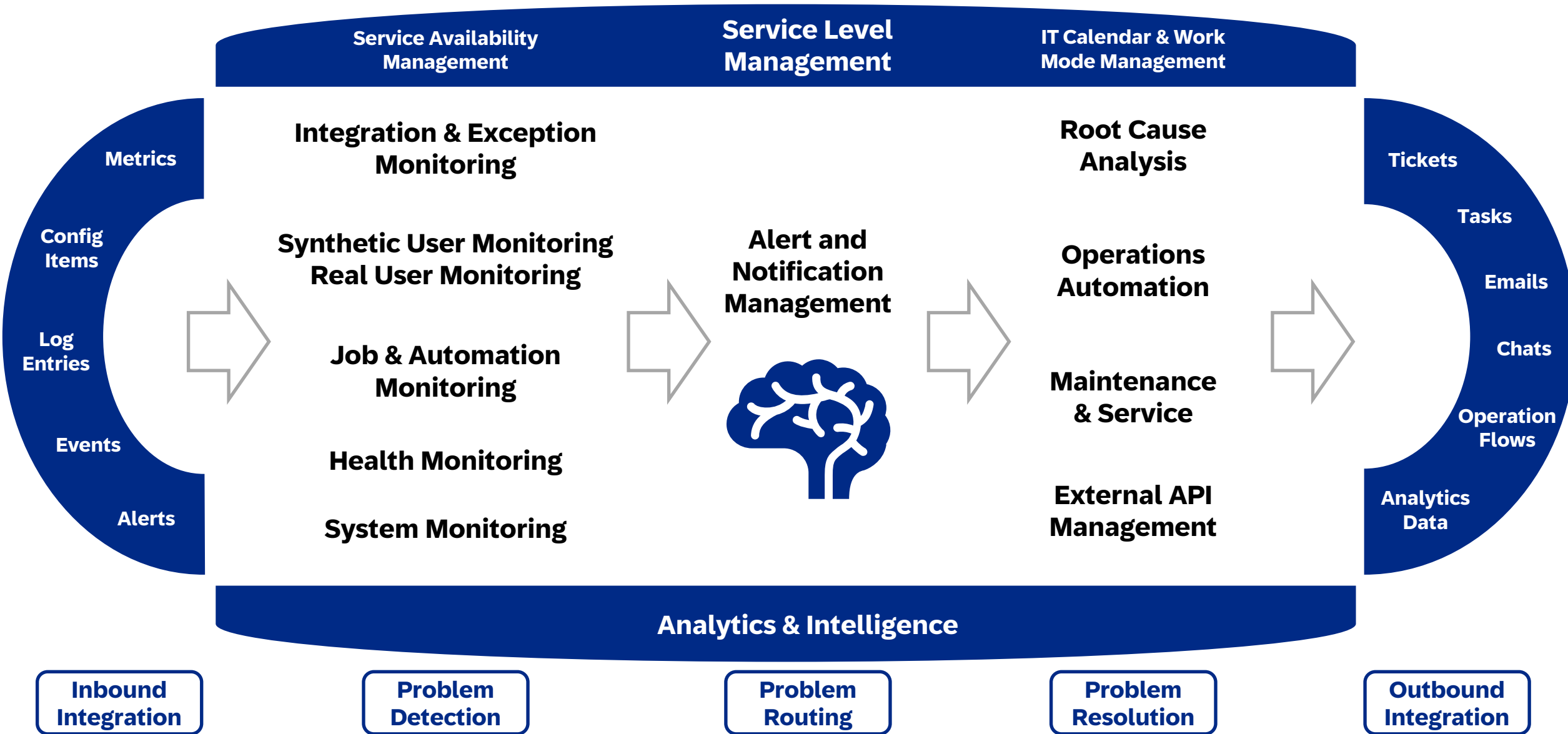


SAP Focused Run – Delivery

- **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



Exception Monitoring



Flexible reaction upon work modes:

- Current work mode of managed systems or cloud services is persisted into exception records at collection time.
- Subsequently, the work mode can be used as filter criteria:
 - when reviewing exceptions in the overview
 - when defining alert creation, for example to suppress alerts during a maintenance window

The screenshot displays the SAP Integration & Exception Monitoring interface. The top section shows a 'Component Overview' for 'ABAP Syslog' with three bar charts: 'Evolution Last 24 Hours', 'Evolution Last 7 Days', and 'Evolution Last 30 Days'. The 'Evolution Last 24 Hours' chart shows a significant spike at 00:00 on Oct 29, 2024, reaching 8.609k. The 'Evolution Last 7 Days' chart shows values ranging from 15.89k to 58.15k. The 'Evolution Last 30 Days' chart shows values ranging from 53.28k to 73.72k.

The main area displays a table of exceptions (1500 / 38817) with columns for Status, Timestamp, Technical Context, Work Mode, Message, User, Error Category, and Message ID. The 'Work Mode' column is highlighted with a blue box, showing values like 'No Workmode Scheduled'.

An 'Edit System' dialog is open, showing a table of alert configurations. The 'Filter Name' field is highlighted with a blue box, showing a filter rule: 'Work Mode' is 'Is Not' '090 (Maintenance)'. The dialog also shows a table of alert details with columns for Alert Name, Metric Name, Filter Name, Status, and Variant Name.

Synthetic User Monitoring

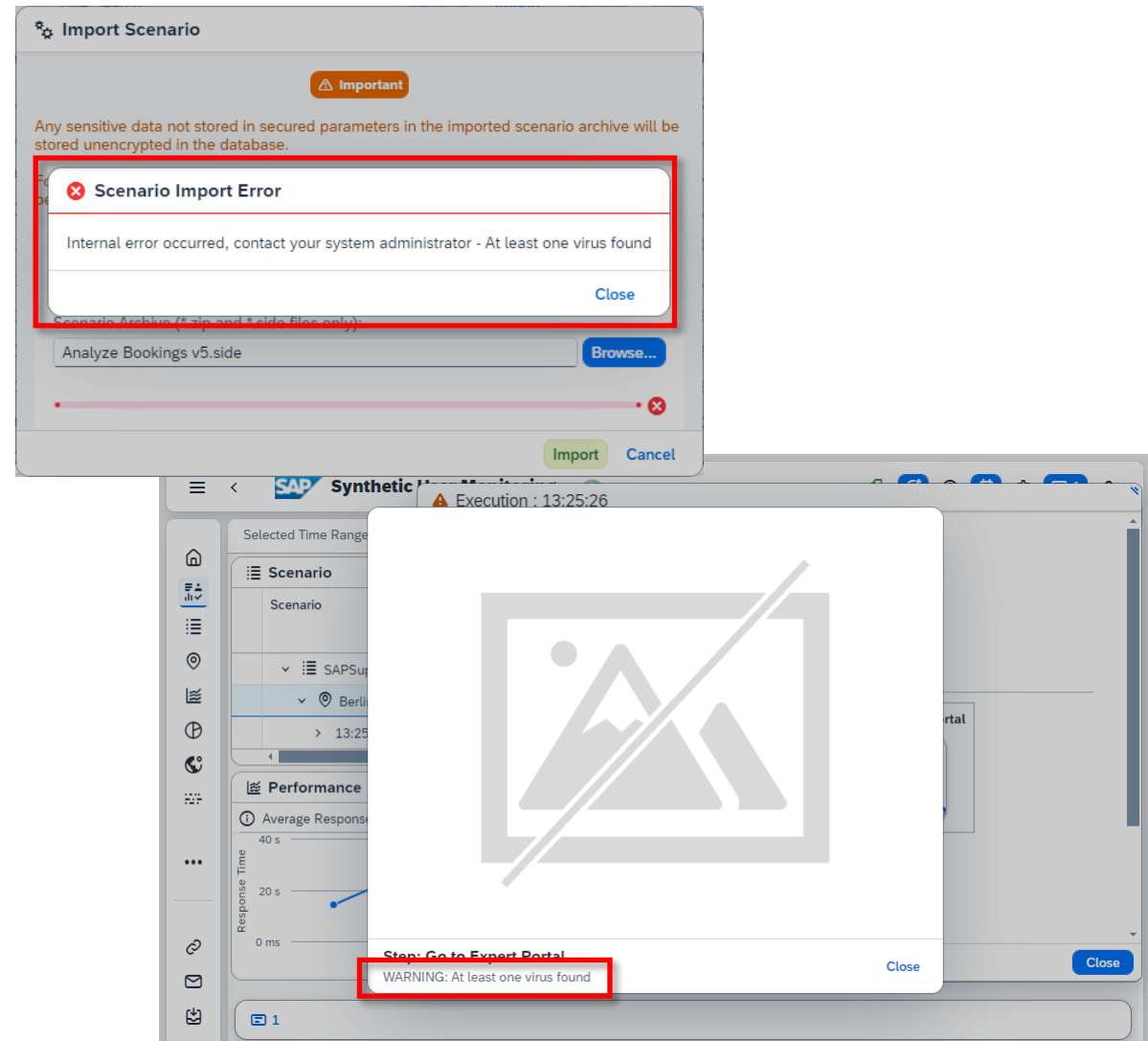




Synthetic User Monitoring (SUM)

When a Virus Scanner is configured in the SAP Focused Run system:

- SUM will now scan the imported script.
- And SUM will also scan the screenshots captured during the Selenium scenarios executions.



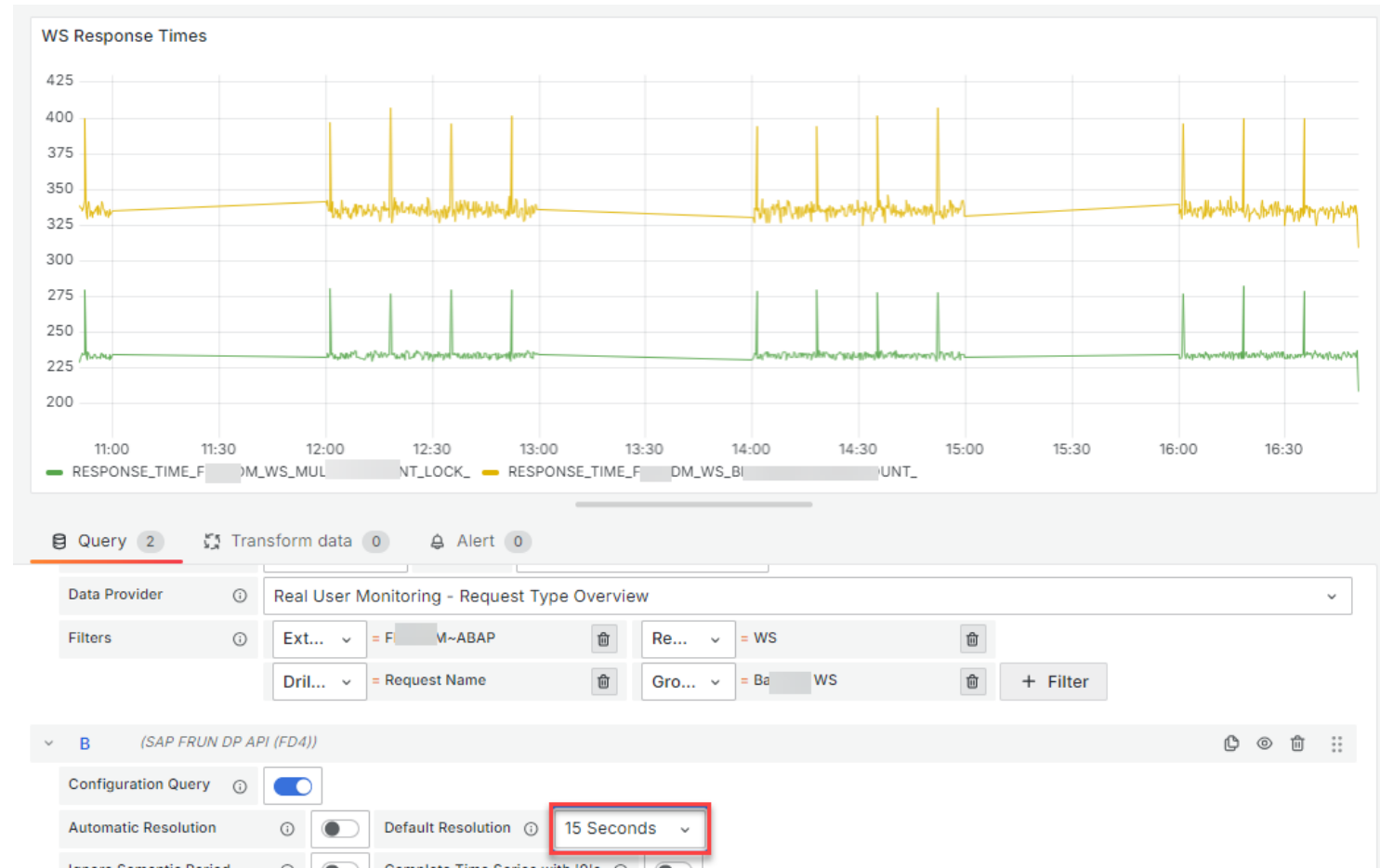
Real User Monitoring





Real User Monitoring

- Analytics data provider **Real User Monitoring - Request Type Overview** has been enhanced and provide now higher resolution and these additional metrics:
 - HTTP Errors
 - Transactions per second
 - CPU time



Job & Automation Monitoring



Job & Automation Monitoring



Automatic Job Group adjustment

If a new ABAP job is scheduled that has the same name, system and client as a job that is already part of a job group, the **new job is automatically added** to the job group.

The screenshot shows the 'Configuration for Job Groups' interface in SAP. The left sidebar contains navigation options: Technical Systems, Cloud Services, Job Definitions, and Job Groups (selected). The main area displays the configuration for 'BUSINESS_JOBS_CUSTOMER_E'. There are two tabs: 'Jobs' (active) and 'Alerting'. Below the tabs is a search bar for 'Jobs (4)'. A table lists the jobs, with the first two rows highlighted in yellow. The table columns are: Job Name, Ex..., Job Type, Recurrence, St..., System, Co..., Last Changed, and Scheduled B.

<input type="checkbox"/>	Job Name	Ex...	Job Type	Recurrence	St...	System	Co...	Last Changed	Scheduled B
<input type="checkbox"/>	ZJOB_EVERY_2_H_CANCEL	ⓘ	SAP AB...	1 Hour	⊘	FT4TMO	200	Sep 23, 2024, 7:0'	SPIRY
<input type="checkbox"/>	ZJOB_EVERY_2_H_WITH_CRIT_MSG	ⓘ	SAP AB...	1 Hour	⊘	FT4TMO	200	Sep 23, 2024, 7:0'	SPIRY
<input type="checkbox"/>	ZJOB_EVERY_2_H_CANCEL	ⓘ	SAP AB...	2 Hours	⊘	FT4TMO	200	Jul 30, 2024, 5:49	SPIRY
<input type="checkbox"/>	ZJOB_EVERY_2_H_WITH_CRIT_MSG	ⓘ	SAP AB...	2 Hours	⊘	FT4TMO	200	Jul 30, 2024, 5:49	SPIRY

At the bottom right of the interface, there are three buttons: 'Save' (green), 'Cancel' (pink), and 'Close' (blue).

Job & Automation Monitoring



Data collection switch for Cloud Services

Now, also for cloud services job
**data collection can be switched
on and off** (but not yet for push
from SAP Build Process Automation)

Note: Monitoring of new cloud
service jobs like SAP Build Process
Automation Processes, SAP Cloud
Identity Provisioning Jobs, SAP
Digital Manufacturing Processes is
supported.

Configuration for Cloud Services

Cloud Services (1) Search

Systems	Type	Job Types	Network	Data Co...	Alerting	Last Changed By	Last Changed At
ETX200	Cloud Service	SAP Application Job,SA...	CloudALM_La...	<input checked="" type="checkbox"/>	Active	JAIWALDU	Aug 30, 2024, 9:06:25 AM

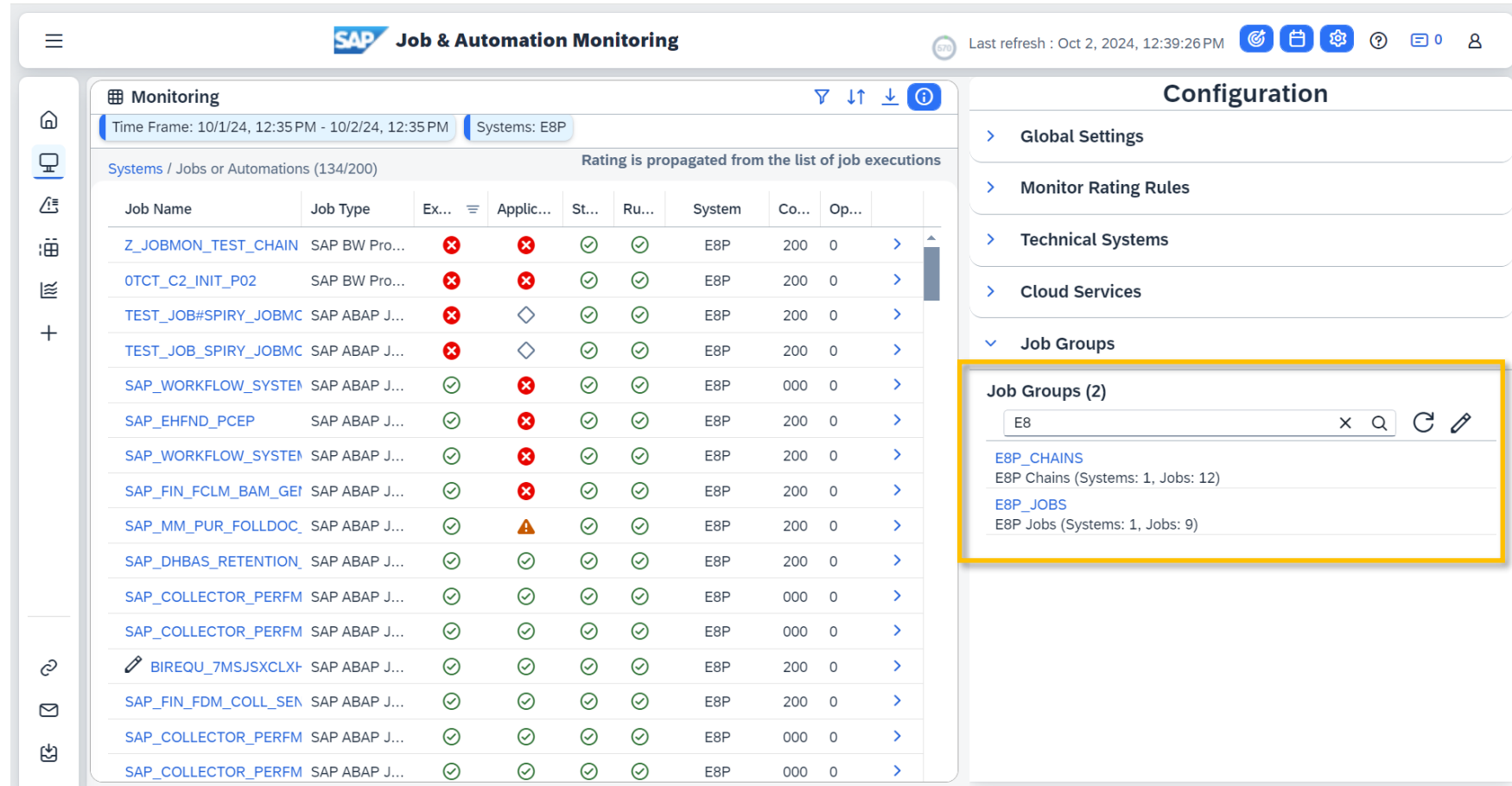
Close

Job & Automation Monitoring



Configuration for job groups

Access to job group from configuration side pane is enabled.



The screenshot displays the SAP Job & Automation Monitoring interface. The main area shows a monitoring table with columns for Job Name, Job Type, Execution Status, Application Status, Start Status, Run Status, System, and other metrics. The table lists various jobs, some with red 'X' marks indicating issues. The right-hand side pane is titled 'Configuration' and contains several expandable sections: Global Settings, Monitor Rating Rules, Technical Systems, Cloud Services, and Job Groups. The 'Job Groups' section is expanded, showing a search bar with 'E8' entered and two results: 'E8P_CHAINS' (E8P Chains, Systems: 1, Jobs: 12) and 'E8P_JOBS' (E8P Jobs, Systems: 1, Jobs: 9). The 'Job Groups' section is highlighted with a yellow border.

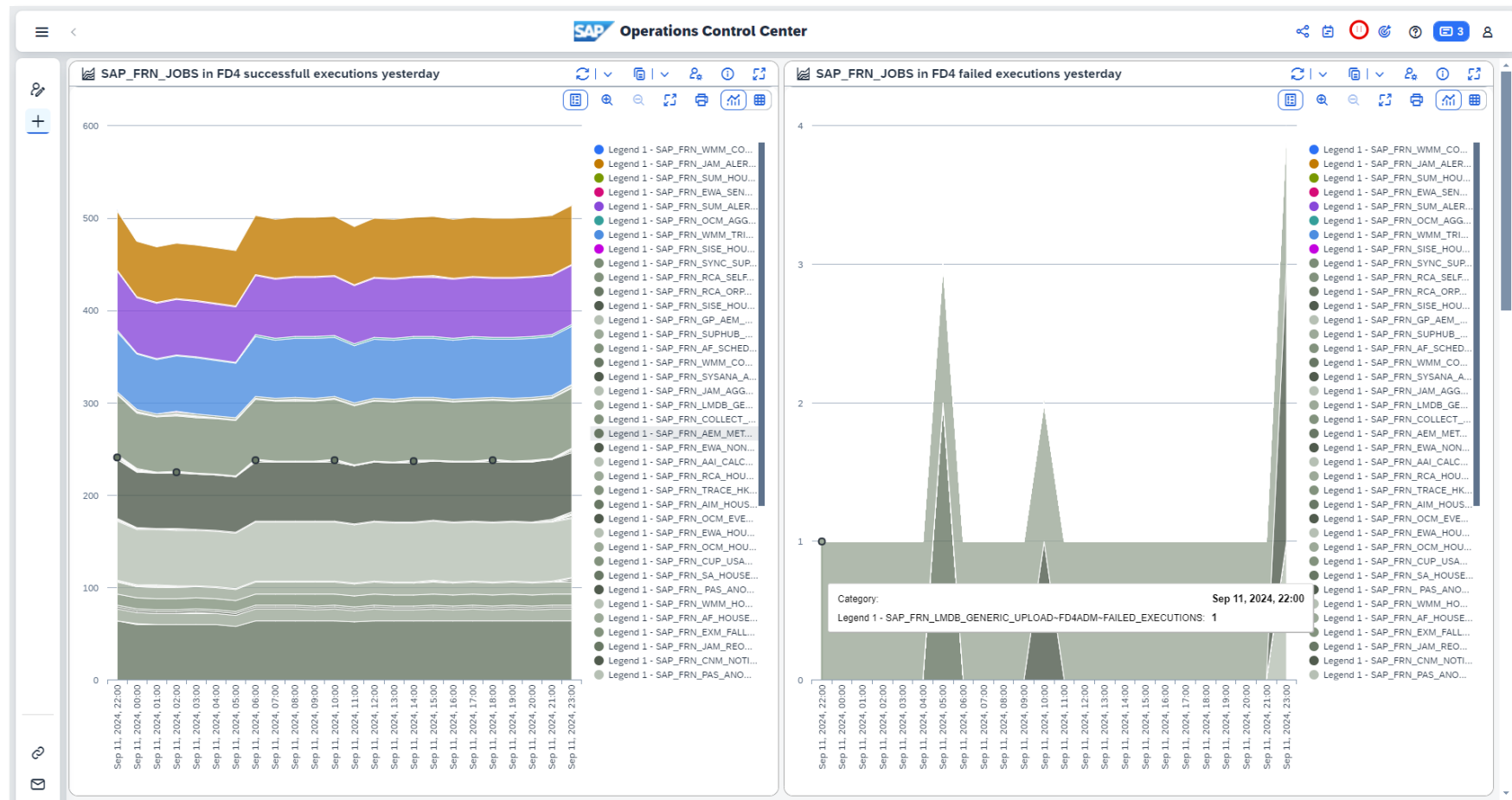
Job Name	Job Type	Ex...	Applic...	St...	Ru...	System	Co...	Op...	
Z_JOBMON_TEST_CHAIN	SAP BW Pro...	✗	✗	✓	✓	E8P	200	0	>
OTCT_C2_INIT_P02	SAP BW Pro...	✗	✗	✓	✓	E8P	200	0	>
TEST_JOB#SPIRY_JOBMC	SAP ABAP J...	✗	◇	✓	✓	E8P	200	0	>
TEST_JOB_SPIRY_JOBMC	SAP ABAP J...	✗	◇	✓	✓	E8P	200	0	>
SAP_WORKFLOW_SYSTEM	SAP ABAP J...	✓	✗	✓	✓	E8P	000	0	>
SAP_EHFND_PCEP	SAP ABAP J...	✓	✗	✓	✓	E8P	200	0	>
SAP_WORKFLOW_SYSTEM	SAP ABAP J...	✓	✗	✓	✓	E8P	200	0	>
SAP_FIN_FCLM_BAM_GEI	SAP ABAP J...	✓	✗	✓	✓	E8P	200	0	>
SAP_MM_PUR_FOLLDLOC	SAP ABAP J...	✓	⚠	✓	✓	E8P	200	0	>
SAP_DHBAS_RETENTION	SAP ABAP J...	✓	✓	✓	✓	E8P	200	0	>
SAP_COLLECTOR_PERFM	SAP ABAP J...	✓	✓	✓	✓	E8P	000	0	>
SAP_COLLECTOR_PERFM	SAP ABAP J...	✓	✓	✓	✓	E8P	000	0	>
BIREQU_7MSJSXCLX+	SAP ABAP J...	✓	✓	✓	✓	E8P	200	0	>
SAP_FIN_FDM_COLL_SEN	SAP ABAP J...	✓	✓	✓	✓	E8P	200	0	>
SAP_COLLECTOR_PERFM	SAP ABAP J...	✓	✓	✓	✓	E8P	000	0	>
SAP_COLLECTOR_PERFM	SAP ABAP J...	✓	✓	✓	✓	E8P	000	0	>



Job & Automation Monitoring

OCC Dashboard and Job Groups

In OCC Dashboard several jobs (e.g. all jobs of a group can be considered in one view / gadget



Job & Automation Monitoring



Navigation from yellow execution status

Navigation from yellow execution status to exceptions view is enabled for ABAP Jobs, if Managed System is on ST-PI SP27.

The screenshot shows the SAP Job & Automation Monitoring interface. The main table displays job execution details. A yellow box highlights the 'Finished with warning' status in the 'Execution Status' column. A yellow arrow points from this status to the 'Exceptions' view in the bottom-left corner.

	Planned Start Time	Start Time	End Time	Execution Status	Application Sta...	Start Delay	Run Time
①	Oct 1, 2024, 12:30:00 AM	Oct 1, 2024, 12:30:10 AM	Oct 1, 2024, 12:30:16 AM	Finished with warning	✓ No Errors or V	✓ 00:00:10	✓ 00:00:06
①	Sep 1, 2024, 12:30:00 AM	Sep 1, 2024, 12:30:13 AM	Sep 1, 2024, 12:30:17 AM	Finished with warning	✗ Errors	✓ 00:00:13	✓ 00:00:04
①	Jul 1, 2024, 12:30:00 AM	Jul 1, 2024, 12:30:19 AM	Jul 1, 2024, 12:30:23 AM	Finished with warning	✓ No Errors or V	✓ 00:00:19	✓ 00:00:04
①	Jun 1, 2024, 12:30:00 AM	Jun 1, 2024, 12:30:37 AM	Jun 1, 2024, 12:30:38 AM	Finished with warning	✓ No Errors or V	✓ 00:00:37	✓ 00:00:01
①	May 1, 2024, 12:30:00 AM	May 1, 2024, 12:46:44 AM	May 1, 2024, 12:46:45 AM	Finished with warning	✗ Errors	⚠ 00:16:44	✓ 00:00:01
①	Apr 1, 2024, 12:30:00 AM	Apr 1, 2024, 12:30:01 AM	Apr 1, 2024, 12:30:03 AM	Finished with warning	✗ Errors	✓ 00:00:01	✓ 00:00:02
①	Mar 1, 2024, 12:30:00 AM	Mar 1, 2024, 12:45:00 AM	Mar 1, 2024, 12:46:05 AM	Finished with warning	✓ No Errors or V	⚠ 00:15:00	✗ 00:01:05
①	Feb 1, 2024, 12:30:00 AM	Feb 1, 2024, 12:30:08 AM	Feb 1, 2024, 12:30:10 AM	Finished with warning	✓ No Errors or V	✓ 00:00:08	✓ 00:00:02
①	Dec 1, 2023, 12:30:00 AM	Dec 1, 2023, 12:30:46 AM	Dec 1, 2023, 12:30:49 AM	Finished with warning	✓ No Errors or V	✓ 00:00:46	✓ 00:00:03
				Finished	✓ No Errors or V	✓ 00:00:22	✓ 00:00:01
				Finished	✓ No Errors or V	✗ 02:07:41	✓ 00:00:10

The screenshot shows the 'Exceptions' view in the SAP Job & Automation Monitoring interface. It displays a table of job exceptions with columns for Status, Timestamp, Technical Context, Message, User, Job Name, and Job Aborted.

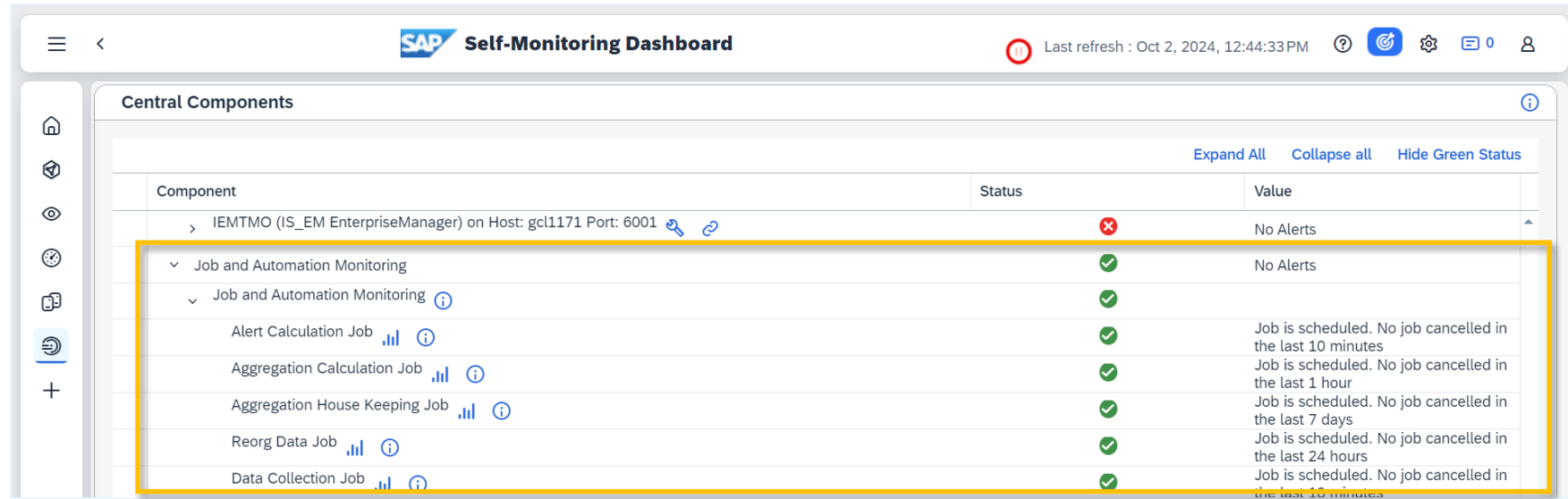
Status	Timestamp	Technical Context	Message	User	Job Name	Job Aborted
⚠	Oct 1, 2024, 12:30:16 AM	QM7DLM~ABAP	Check is obsolete. Only close period operation is ex...	DLM_BTCHADM	MMIM_MMPV_CC_M201	False

Job & Automation Monitoring



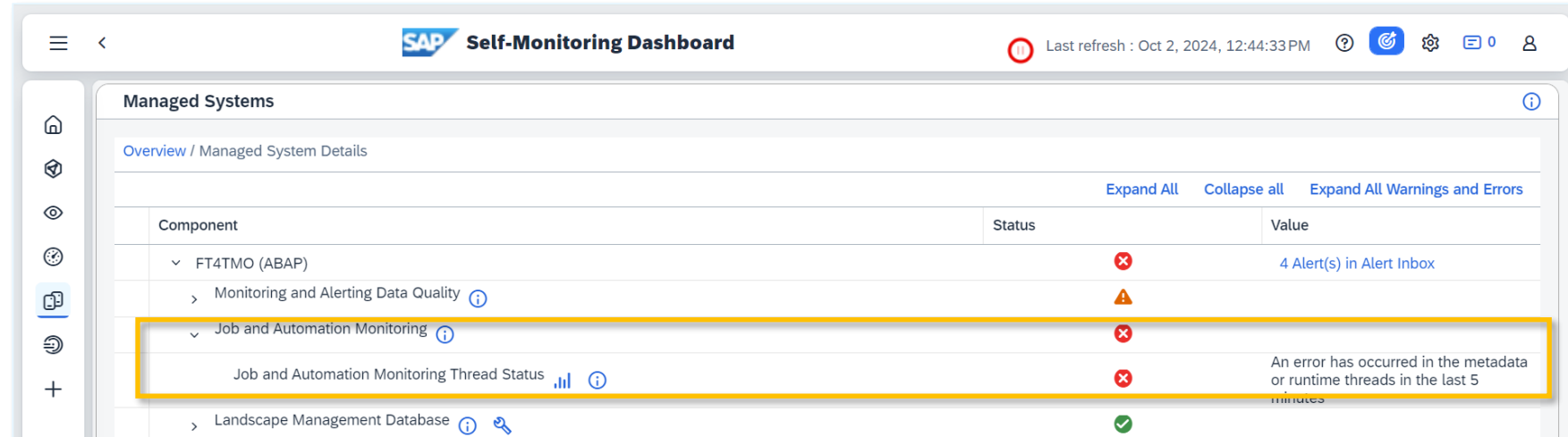
Self Monitoring shows Job Monitoring Status

Self Monitoring contains information on Job & Automation Monitoring regarding important jobs and data collection threads (for agent based data collection)



The screenshot shows the 'Central Components' section of the SAP Self-Monitoring Dashboard. The dashboard header includes the SAP logo, 'Self-Monitoring Dashboard', and a refresh timestamp of 'Oct 2, 2024, 12:44:33 PM'. The table below lists various components and their monitoring status.

Component	Status	Value
IEMTMO (IS_EM EnterpriseManager) on Host: gcl1171 Port: 6001	✖	No Alerts
Job and Automation Monitoring	✔	No Alerts
Job and Automation Monitoring	✔	
Alert Calculation Job	✔	Job is scheduled. No job cancelled in the last 10 minutes
Aggregation Calculation Job	✔	Job is scheduled. No job cancelled in the last 1 hour
Aggregation House Keeping Job	✔	Job is scheduled. No job cancelled in the last 7 days
Reorg Data Job	✔	Job is scheduled. No job cancelled in the last 24 hours
Data Collection Job	✔	Job is scheduled. No job cancelled in the last 10 minutes



The screenshot shows the 'Managed Systems' section of the SAP Self-Monitoring Dashboard. The dashboard header is identical to the previous screenshot. The table below lists managed systems and their monitoring status.

Component	Status	Value
FT4TMO (ABAP)	✖	4 Alert(s) in Alert Inbox
Monitoring and Alerting Data Quality	⚠	
Job and Automation Monitoring	✖	
Job and Automation Monitoring Thread Status	✖	An error has occurred in the metadata or runtime threads in the last 5 minutes
Landscape Management Database	✔	

Health Monitoring



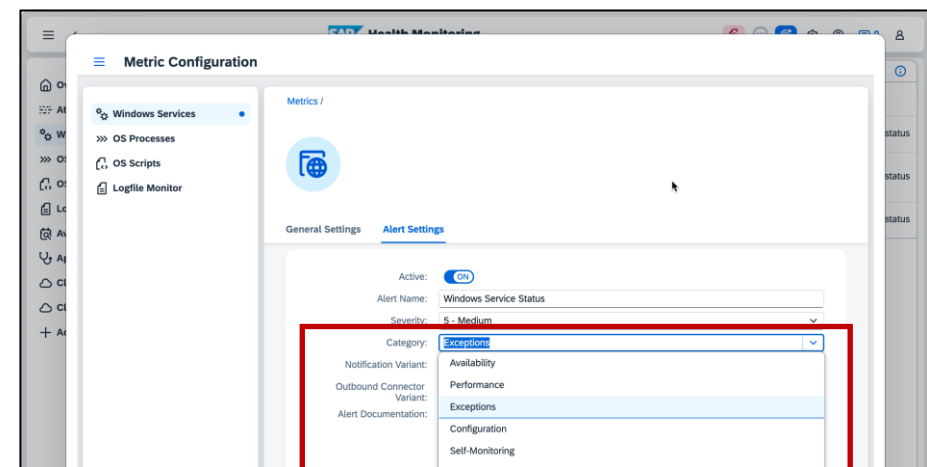
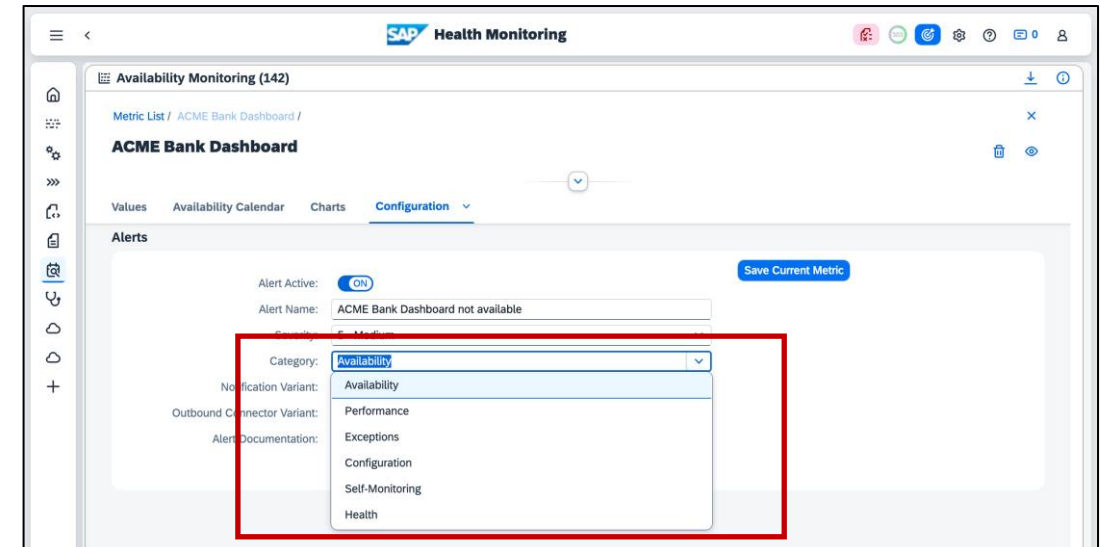
Health Monitoring

Maintain Alert Category for Availability and OS Alerts



The **category** of an alert can now also be configured for **Availability** and **OS** metrics (Windows Services, OS Processes and OS Scripts).

In previous versions this was only possible for Cloud Service alerts.





Health Monitoring Application Log for configuration changes

All configuration changes in Health Monitoring are now written to the Application Log (transaction SLG1). This allows a tracking of all configuration changes.

The configuration entries can be found by selecting the Object FRUN_OCM and the following Subobjects:

- CONF_CLOUDSRV: When Cloud Service configuration is changed
- CONF_COLLGROUP: When changes are performed on a Collection Group
- CONF_CONTENTUPDATE: When the Health Monitoring content is updated
- CONF_HOUSEKEEPING: When Housekeeping settings are changed

SAP Analyze Application Log

Object: FRUN_OCM
Subobject: CONF_COLLGROUP
External ID: *

Time Restriction
From (Date/Time): 26.11.2024 00:00:00
To (Date/Time): 27.11.2024 23:59:59

SAP Display logs

Technical Information

Date/Time/User	Numb.	External ID	Object text	Subobject Text
> 26.11.2024 16:00:40	1	CL_ADMON_AGENT_ASSIGNMENT_API	FRUN_OCM	CONF_COLLGROUP
> 26.11.2024 16:01:36	1	CL_ADMON_AGENT_ASSIGNMENT_API	FRUN_OCM	CONF_COLLGROUP
> 26.11.2024 16:01:36	1	CL_ADMON_AGENT_ASSIGNMENT_API	FRUN_OCM	CONF_COLLGROUP
> 26.11.2024 16:01:40	1	CL_ADMON_AGENT_ASSIGNMENT_API	FRUN_OCM	CONF_COLLGROUP
> 26.11.2024 16:01:40	1	CL_ADMON_AGENT_ASSIGNMENT_API	FRUN_OCM	CONF_COLLGROUP
> 26.11.2024 16:01:43	1	CL_ADMON_AGENT_ASSIGNMENT_API	FRUN_OCM	CONF_COLLGROUP
> 26.11.2024 16:01:43	1	CL_ADMON_AGENT_ASSIGNMENT_API	FRUN_OCM	CONF_COLLGROUP
> 26.11.2024 16:01:43	1	CL_ADMON_AGENT_ASSIGNMENT_API	FRUN_OCM	CONF_COLLGROUP
> 26.11.2024 16:01:46	1	CL_ADMON_AGENT_ASSIGNMENT_API	FRUN_OCM	CONF_COLLGROUP
> 27.11.2024 16:00:03	1	CL_ADMON_AGENT_ASSIGNMENT_API	FRUN_OCM	CONF_COLLGROUP
> 27.11.2024 16:01:03	1	CL_ADMON_AGENT_ASSIGNMENT_API	FRUN_OCM	CONF_COLLGROUP
> 27.11.2024 16:01:03	1	CL_ADMON_AGENT_ASSIGNMENT_API	FRUN_OCM	CONF_COLLGROUP
> 27.11.2024 16:01:07	1	CL_ADMON_AGENT_ASSIGNMENT_API	FRUN_OCM	CONF_COLLGROUP
> 27.11.2024 16:01:07	1	CL_ADMON_AGENT_ASSIGNMENT_API	FRUN_OCM	CONF_COLLGROUP

Message Text
Assign agent ccwdfgw0662 to network LOCALNETWORK, user

Health Monitoring

Self-Monitoring for Agent Status and Cloud Services



New Health Monitoring specific checks are provided in **Self-Monitoring**:

- Status of the **SDA agents** which are used for Health Monitoring
- Status of the **Cloud Service** specific data collections in the Expert Scheduling framework

The Self-Monitoring metrics correspond to the same information as it is displayed in the Data Quality section in Health Monitoring.

Self-Monitoring Dashboard - Last refresh: Nov 27, 2024, 3:34:04 PM

Component	Status	Value
Health Monitoring	✖	1 Alert(s) in Alert Inbox
Health Monitoring	✖	
Event Calculation Job	✔	Event Calculation job is scheduled. Last run was successful
Housekeeping Job	✔	Housekeeping job is scheduled. Last run was successful
Cloud Services	✔	
EU10_HM	✔	End extracting Monitoring Data from HANA Cloud
EU20_LMS	✔	End extracting Monitoring Data from HANA Cloud
SAP00001	✔	End extracting metrics from SAP BTP Neo
SAP	✔	End extracting metrics from SAP BTP Neo
T0018	✔	End extracting SAP Integration Suite (Cloud Integration) metrics
EU20_HM	✔	End extracting Monitoring Data from HANA Cloud
HANA_CAL	✔	End extracting Monitoring Data from HANA Cloud
A35	✔	End extracting SAP Integration Suite (Cloud Integration) metrics
Collection Group : Agent Status Information	✖	
AMS-NEE-01	✔	Active
CLM_CRUN_PROD	✖	All Agents inactive
LOCALNETWORK	✔	Active
	✖	All Agents inactive
	✔	Active
	✔	Active

Health Monitoring - Data Quality

Agents

Collection Group	Agent	Status
ROT-TMO-03	1 Agents configured	✖ All agents inactive
AMS-NEE-01	2 Agents configured	✔ Active
CH1-SSC-01	1 Agents configured	✔ Active
LOCALNETWORK	1 Agents configured	✔ Active
MyNewCollectionGroup	2 Agents configured	✔ Active

Cloud Services

Cloud Service Name	Data Collection Logs	Status
A35	Data Collection Log	✔ End extracting SAP Integration Suite
AAC	Data Collection Log	⚡ Data collection turned OFF.
CAS_CPI	Data Collection Log	⚡ Data collection turned OFF.
CPI018	Data Collection Log	⚡ Data collection turned OFF.
EU10_HM	Data Collection Log	✔ End extracting Monitoring Data from

Demo: Health Monitoring



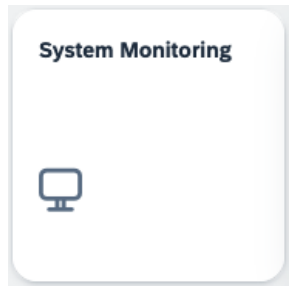
System Monitoring



System Monitoring

Template Maintenance

- **Threshold type enhancement**
 - Method “Best of Last N” is now available for **all threshold types** (not only “Already rated”)
- **Authorizations**
 - Restrict visibility of templates according to LMDB roles
 - Option to reflect Customer Network separation also in Template Maintenance
- **Individual Maintenance**
 - Standalone Hosts are now visible in Individual Maintenance dashboard (utilizing the same Scope Selection like in Manual Template Assignment dashboard)



Overview Data Collection Usage **Threshold** Assignment Validity Others

Threshold Type:* i Numeric Threshold (Gre ...

Monitored Value: Average Value ▼

Trigger if value: Exceeds or equals threshold ▼

↔ minutes

↔ minutes

Use Best rating of Last N measurements: i

Use Dynamic Threshold: i

Individual Maintenance ⓘ

Standard* ▼ Go Hide Filter Bar Filters (1)

Managed Object Name:

Managed Object Type: ×

Template Name:

Customer ID: 🔑

Data Center:

Extended System ID: 🔑

System Type:

Cloud Service Type:

Cloud Service Name: 🔑

Lifecycle Status:

IT Admin Role:

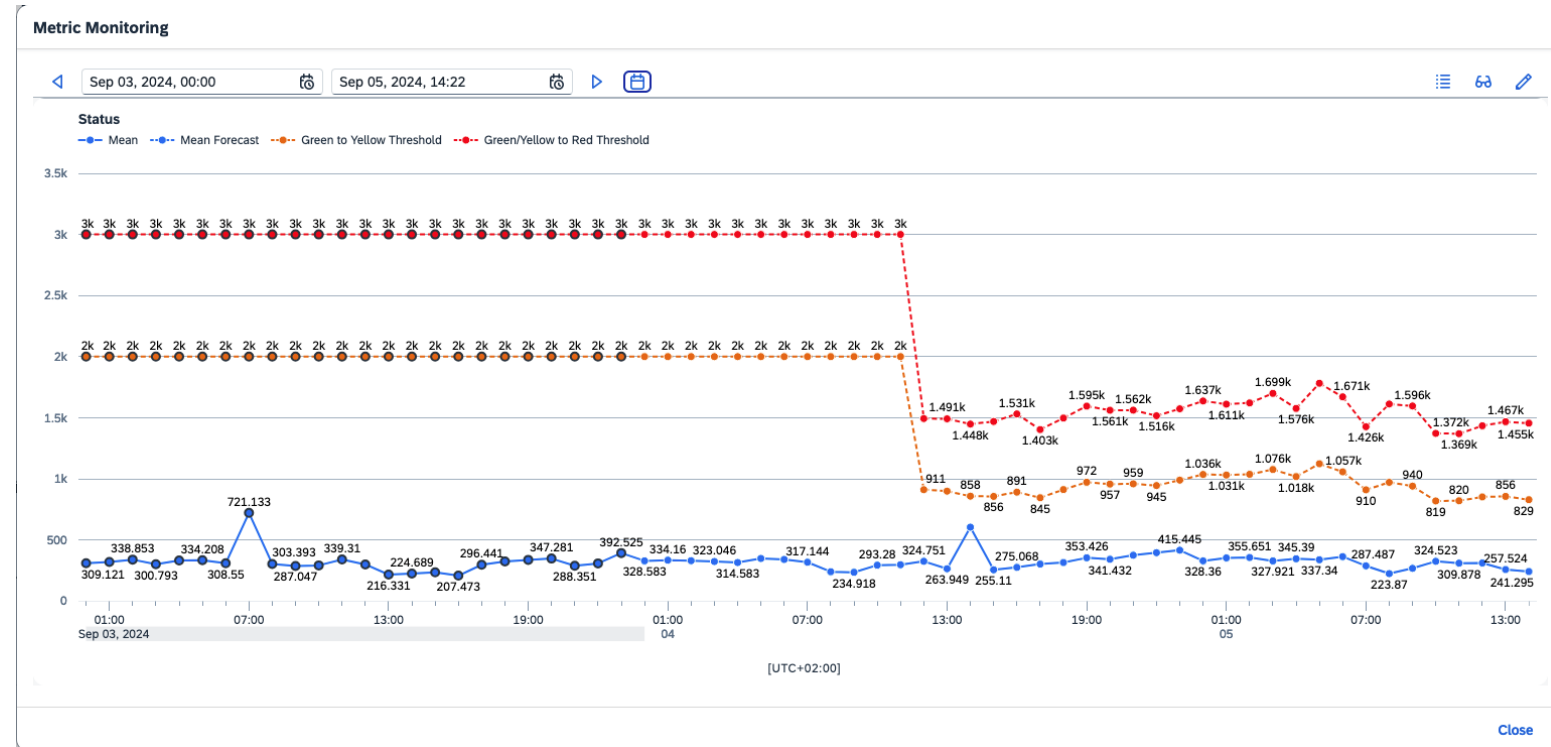
Customer Network: 🔑

System Monitoring



• Dynamic Thresholds

- Introducing the option to enable Threshold less Alerting by using HANA PAL (Predictive Analytics Library) machine learning capabilities for **numeric** thresholds.
- A combined usage of dynamic and static thresholds is possible (e.g., to define maximum/minimum for alerting)



Use Best rating of Last N measurements: 0

Use Dynamic Threshold: Use dynamic threshold only

Combine dynamic threshold with defined thresholds

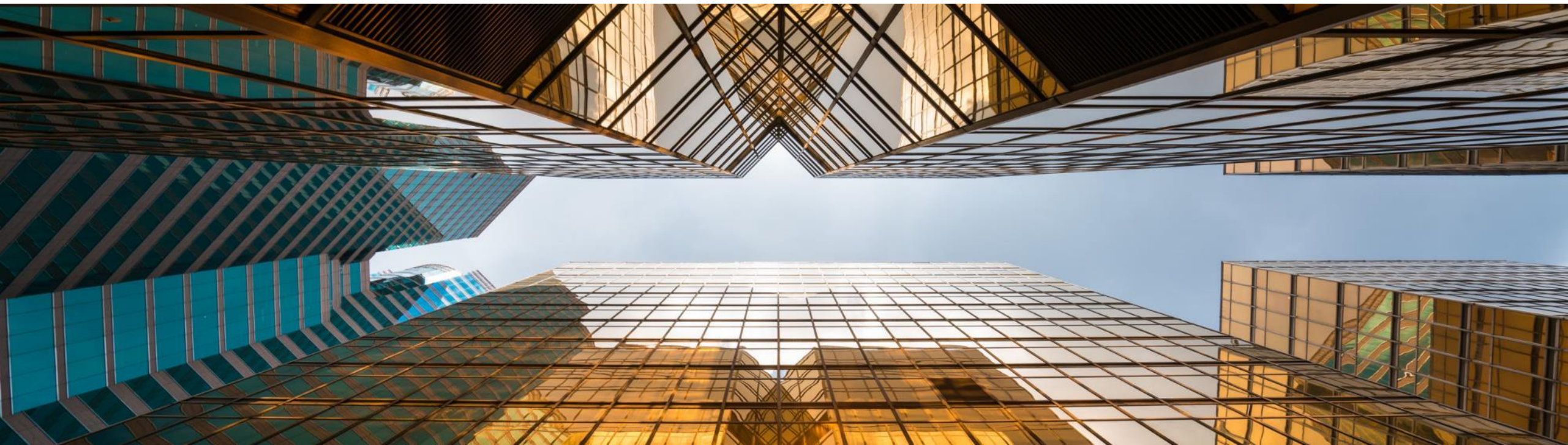
Use dynamic threshold only

Demo: System Monitoring



Analytics & Intelligence

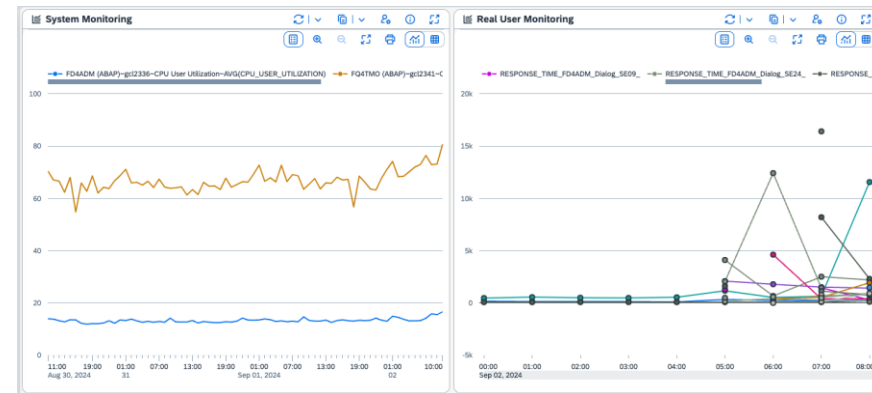
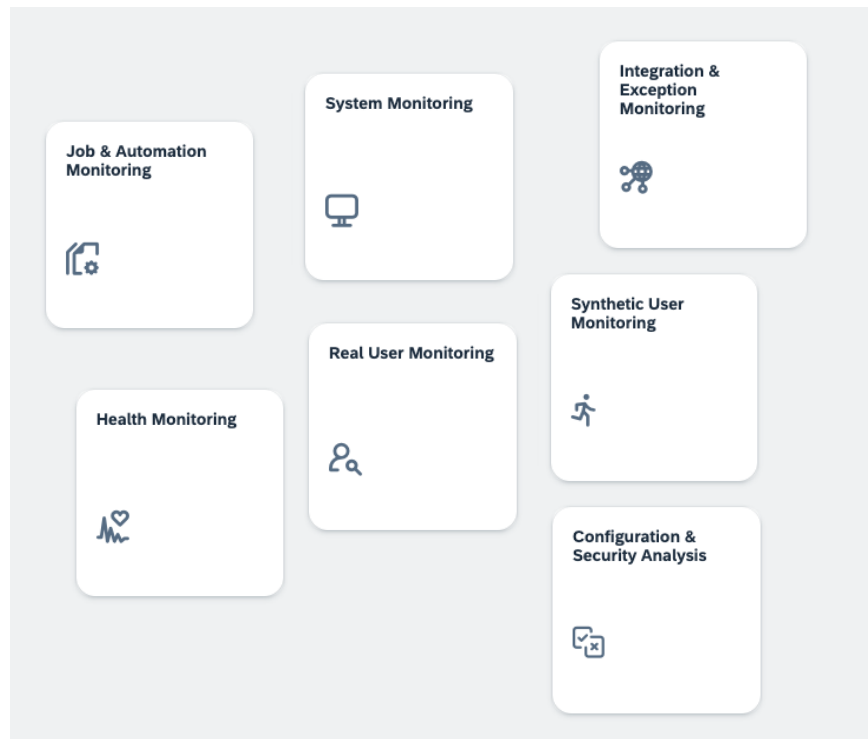
OCC Dashboard



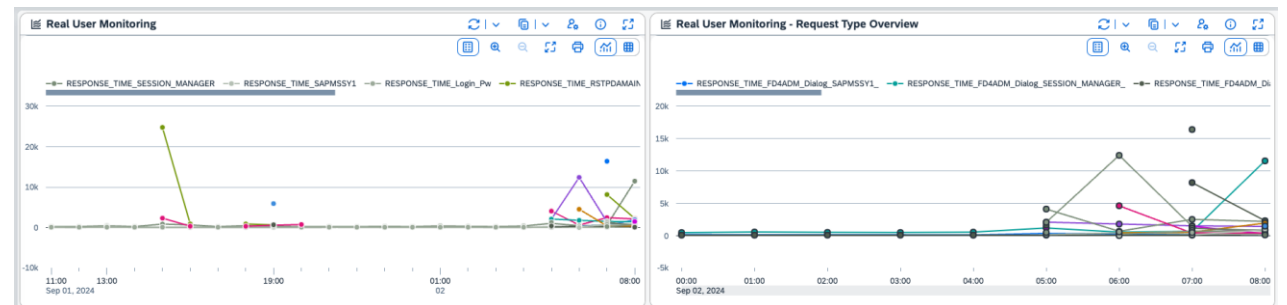
Rename Series with Regular Expressions (1/4)

The Analytics Dashboards provide access to heterogeneous applications using different APIs

Each data providers display different series name



Different data providers from the same use case can show different series names depending on the drilldown options

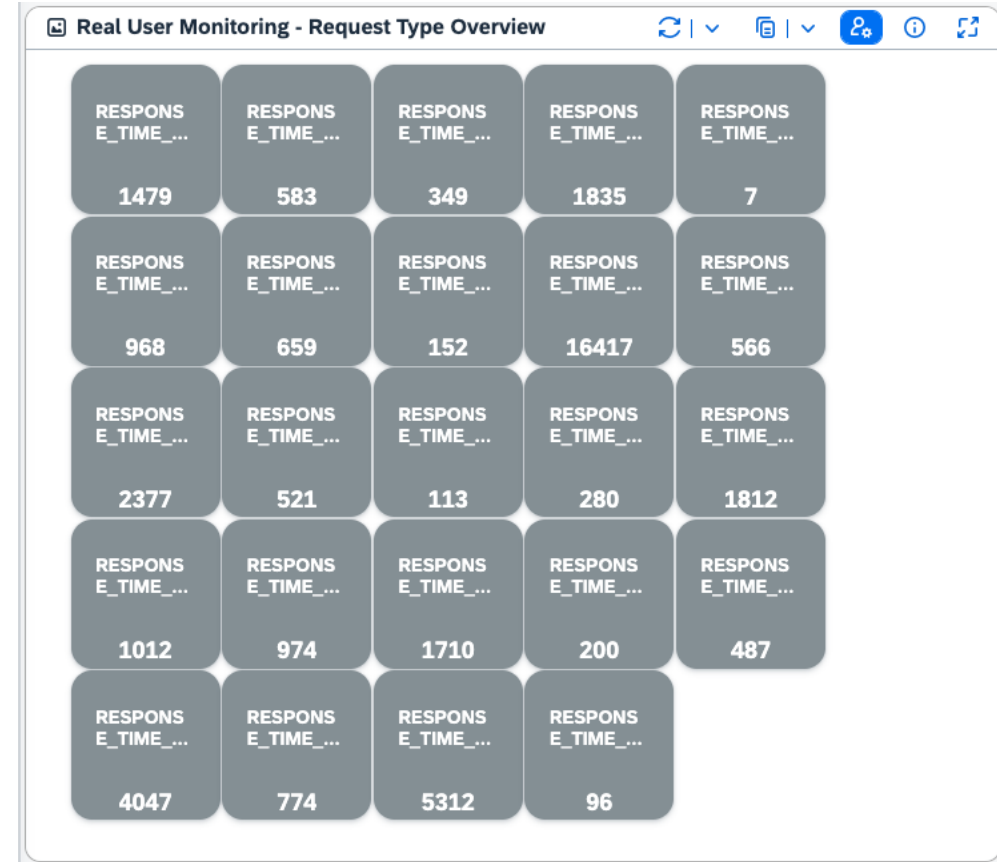


Rename Series with Regular Expressions (2/4)

A new feature, query level, is delivered with Focused Run 5.0 SP00 to manipulate series names

This can be useful to truncate, change or filter long series names

This feature will work with all the data providers



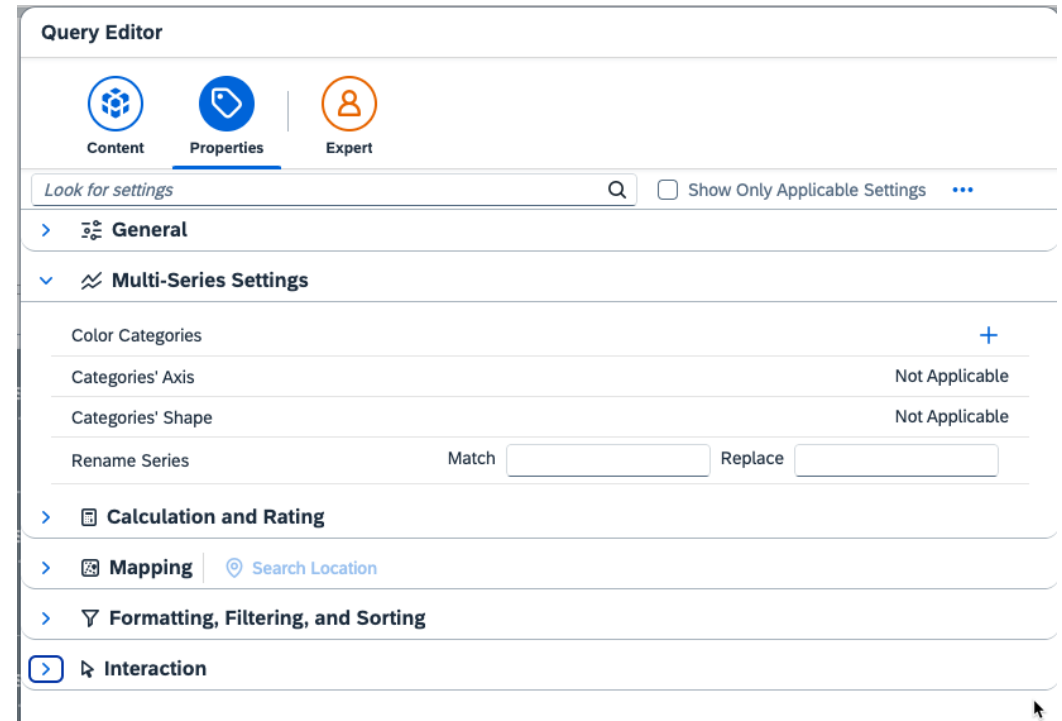
Rename Series with Regular Expressions (3/4)

A new option “Rename Series” has been added in the multi-series section of the query editor, with two fields

- Match
- Replace

This feature can be used to rename parts of the series name using a regular expression and replacement pattern

A regular expression can be specified and applied to matches, along with a replacement pattern



Rename Series with Regular Expressions (4/4)

Example with Real User Monitoring

When using the option “Drilldown” by request name, we get multiple series in this format:

RESPONSE_TIME_FD4ADM_Dialog_ST22

The regular expression in the Match field can be set to

(RESPONSE_TIME_FD4ADM_Dialog_)(.*)_()

and the replacement pattern to **\$2** to keep the Transaction name

Multi-Series Settings

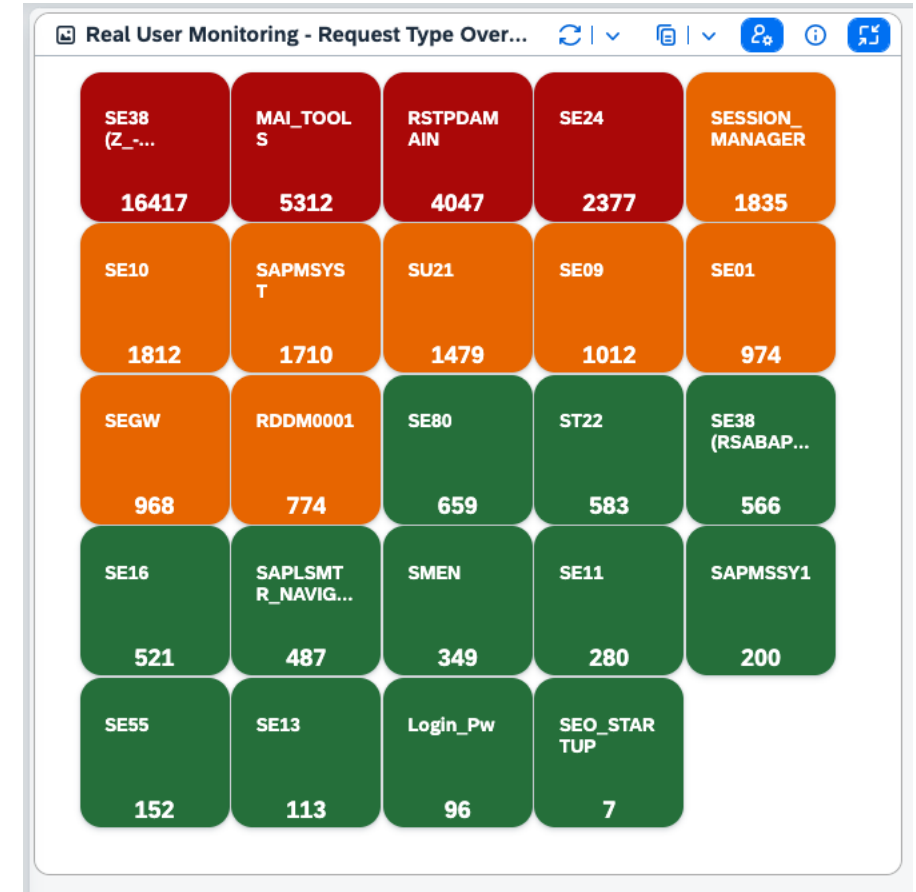
Color Categories +

Categories' Axis Not Applicable

Categories' Shape Not Applicable

Rename Series Match Replace

Calculation and Rating

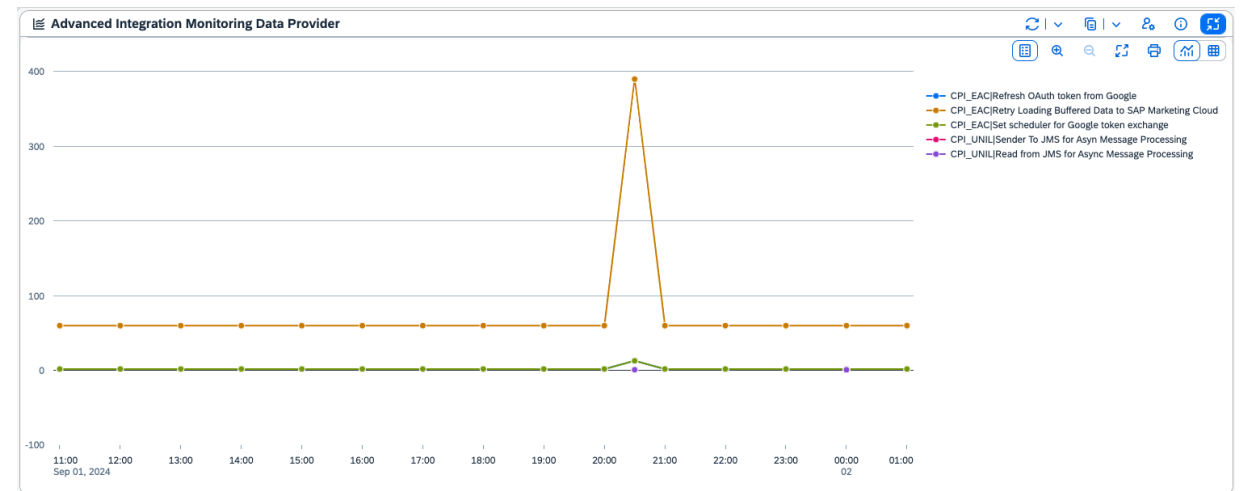
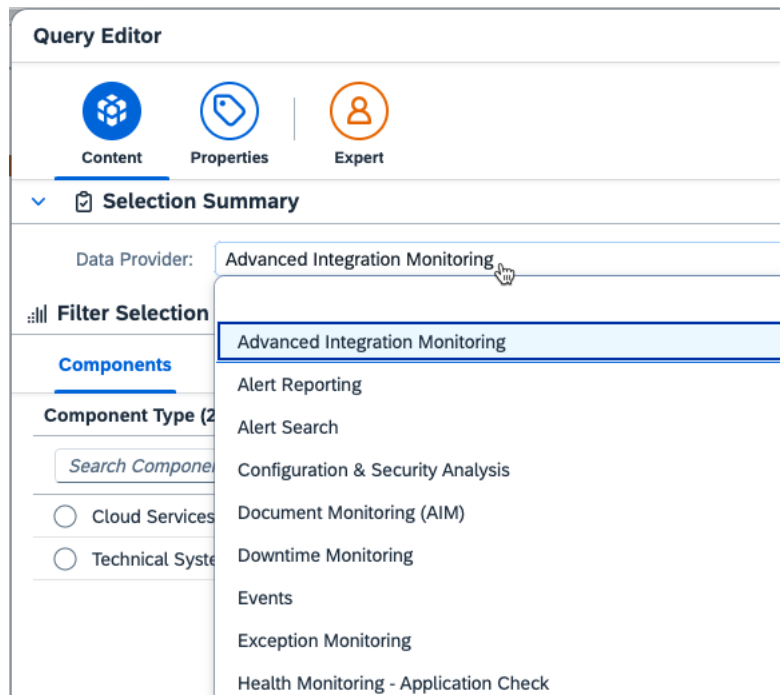


New Integration Monitoring Data Provider (1/3)

New Data Provider dedicated to the Integration Monitoring Scenario

This data provider can be used to configure dashboards to monitor integration issues across multiple tenants

It is possible to create a dashboard that visualizes the distribution of messages by their status (e.g., error, success, warning) over a selected period



New Integration Monitoring Data Provider (2/3)

Several dimensions are available to select the proper combination of Components, Categories, etc.

The screenshot shows the 'Query Editor' interface. At the top, there are three tabs: 'Content', 'Properties', and 'Expert'. Below the tabs is a 'Selection Summary' section with a dropdown menu set to 'Advanced Integration Monitoring' and a 'Relo...' button. The summary lists the following configuration: Data Provider: Advanced Integration Monitoring; Component Type: Cloud Services; Type: SAP Integration Suite (Cloud Integration); Category: SAP Integration Suite; Component: CPI_UNIL; Metric: Status Summary Over Time. Below this is the 'Filter Selection' section, which has two tabs: 'Components' and 'Metrics'. The 'Components' tab is active, showing four search filters: 'Component Type (2)', 'Type (5)', 'Category (1)', and 'Component (27)'. The 'Component Type' filter has 'Cloud Services' selected. The 'Type' filter has 'SAP Integration Suite (Cloud Integration)' selected. The 'Category' filter has 'SAP Integration Suite' selected. The 'Component' filter has 'TESTEMSW', 'TES00003', 'TES00004', 'CPI_MBC', 'CPI_CO', 'CPI_CIC', and 'CPI_EAC' listed.

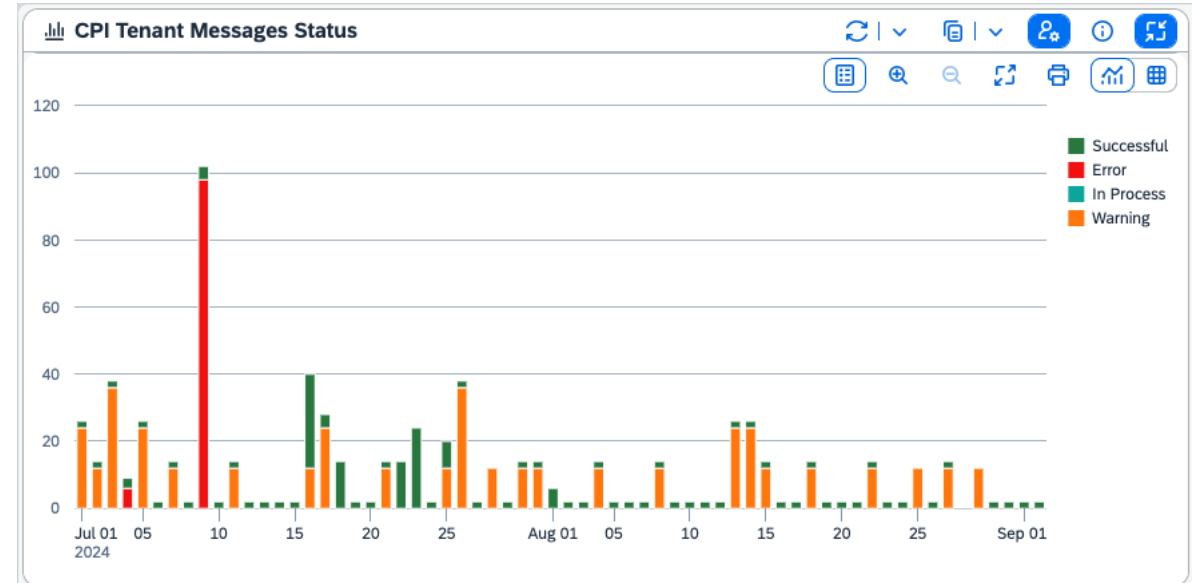
Filters and group by options can be used to configure the returned series

The screenshot shows the 'Filter Selection' interface. It has two tabs: 'Components' and 'Metrics'. The 'Metrics' tab is active, showing a search filter for 'Metric (1)' with 'Status Summary Over Time' selected. Below this are three search filters: 'Artifact Name (14)', 'Status Group (7)', and 'Group By (3)'. The 'Artifact Name' filter has a list of 14 items: Async_Flow_2, JMS_Test, JSON_to_XML, MM_Issue, Properties_to_JMS, QTW_Route_through_ODC, Read_from_JMS_for_Async_Message..., RelaxDependencies_ApplyRetryPatter..., and Sender_To_JMS_for_Asyn_Message_... The 'Status Group' filter has a list of 7 items: Canceled, Error, Info, In Process, Others, Successful, and Warning. The 'Group By' filter has three options: Artifact Name, Status Group, and Component. The 'Status Group' and 'Status Group' options are selected.

New Integration Monitoring Data Provider (3/3)

Following messages will be initially supported:

- SAP Integration Suite
- SAP Ariba Sourcing Message
- SAP Ariba Procurement Message
- SAP Ariba Network Message
- SAP Ariba CIG Message
- IDoc
- PI Messages (ABAP/Java)
- Web Service Messages (ABAP)

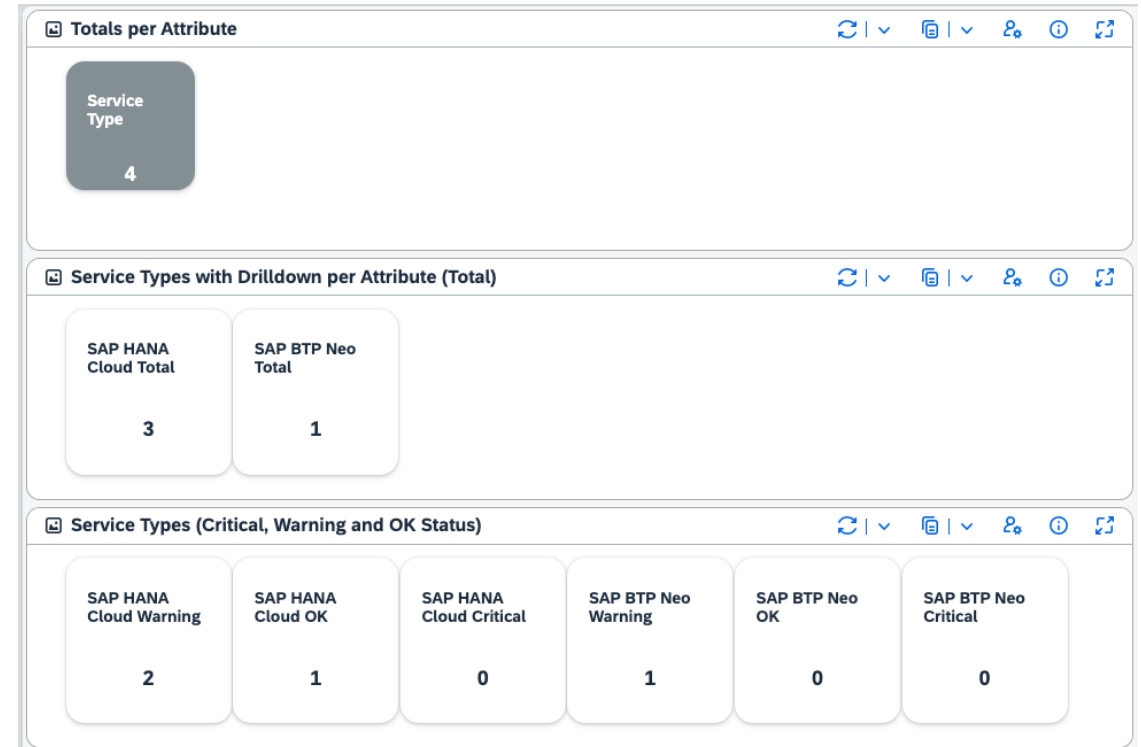


New Health Monitoring Services Data Provider (1/3)

The Health Monitoring Services displays the number of Health Monitoring services in Critical, Warning or OK status

The status can be displayed for each “attribute” (custom or standard) that is defined in the Health Monitoring application

The Health Monitoring Services is a “Snapshot” data provider, it provides current values with no history



New Health Monitoring Services Data Provider (2/3)

When selecting the initial scope, all the attributes defined for the services will be displayed

Attributes can be standard (Service Type, Tenant, Customer Network, etc) or custom created in Health Monitoring (e.g. the “Additional/Custom Attributes” created for each service)

Following metrics are available

- Total Number of Services
- Number of Services in status Critical
- Number of Services in status Warning
- Number of Services in status OK
- Percentage of Services in status OK
- Percentage of Services in status Warning
- Percentage of Services in status Critical

The screenshot displays the configuration interface for the Health Monitoring Services Data Provider. It is divided into two main sections: 'Selection Summary' and 'Filter Selection'.

Selection Summary:

- Data Provider:** Health Monitoring Services (dropdown menu)
- Drilldown:** Yes (radio button)
- Attribute Name:** Service Type (radio button)
- Metric:** Number of Services in status Critical | Number of Services in status Warning | Number of Services (dropdown menu)
- Customer ID:** SAP Focused Run Development (ADM) (radio button)

Filter Selection:

- Scope Selection:** Standard (dropdown menu)
- Customer ID:** SAP Focused R X (input field)
- Data Center:** (dropdown menu)
- Customer Network:** (input field)
- Hide Filter Bar:** (checkbox)
- Inheritance:** (checkbox)

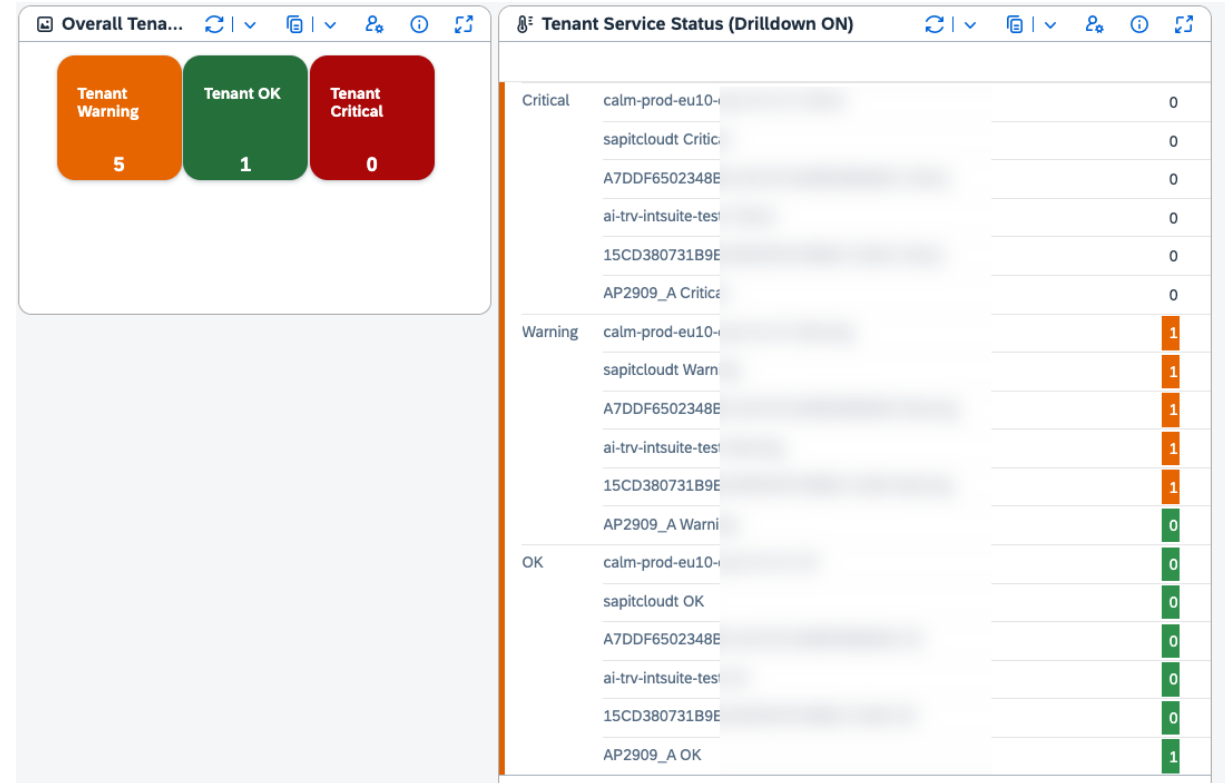
The second screenshot shows the 'Filter Selection' section with the 'Attribute' tab selected. It displays a list of attributes and their values.

Drilldown (2)	Attribute Name (5)	Attribute Values (9)
<input checked="" type="radio"/> Yes	<input type="checkbox"/> ABAP_PULL	<input type="checkbox"/> ABAP_PULL
<input type="radio"/> No	<input type="checkbox"/> HTTP_MON	<input type="checkbox"/> HTTP_MON
	<input checked="" type="checkbox"/> Service Type	<input type="checkbox"/> Service Type:SAP BTP Neo
	<input type="checkbox"/> TCP_PING	<input type="checkbox"/> Service Type:SAP HANA Cloud
	<input type="checkbox"/> Tenant	<input type="checkbox"/> TCP_PING
		<input type="checkbox"/> Tenant:calm-prod-eu10-ops-hm-01
		<input type="checkbox"/> Tenant:calm-prod-eu20-ops-hm-01
		<input type="checkbox"/> Tenant:calm-prod-eu20-x-infrastructure-01
		<input type="checkbox"/> Tenant:sapitcloudt

New Health Monitoring Services Data Provider (3/3)

The new Data Provider can be used to build an overview of the status for the different services

The drilldown option will show one series per Attribute Value



Job Group Support for Job Monitoring Data Provider (1/2)

The Job and Automation Monitoring data provider now supports Job Groups in the filter selection

Specific Jobs within the groups can be individually selected to further restrict the selection

The screenshot shows the 'Selection Summary' and 'Filter Selection' sections. The 'Data Provider' is 'Job & Automation Monitoring', 'System ID' is 'FT4ADM-ABAP', and the 'Metric' is 'Number of failed executions'. In the 'Filter Selection' section, the 'Job Filters' tab is active. Under 'Job Group (2)', 'SAP_FRN_JOBS (59)' is selected. The 'Job Name (489)' list includes:

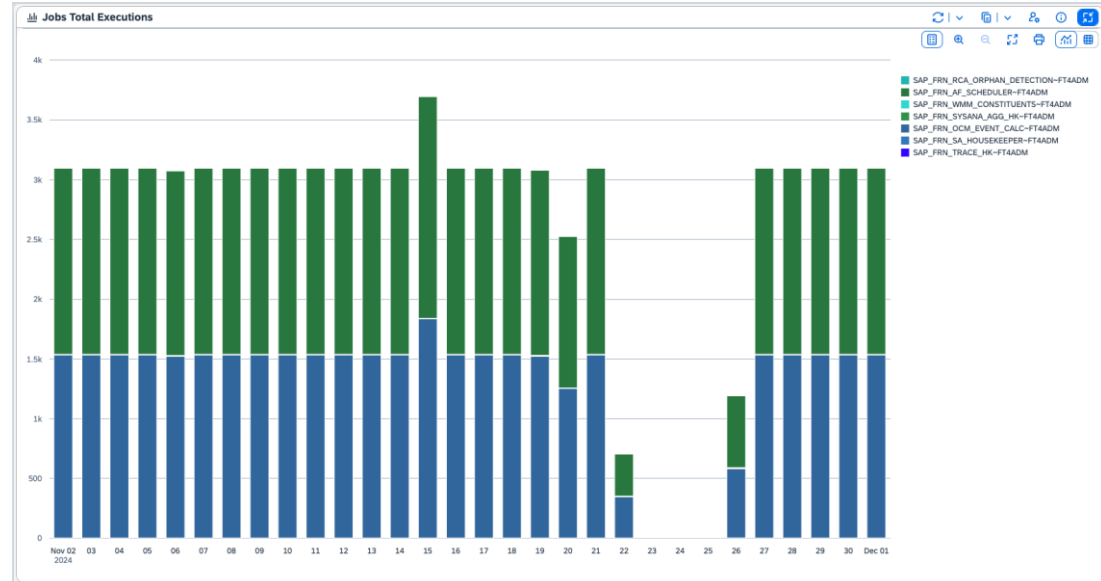
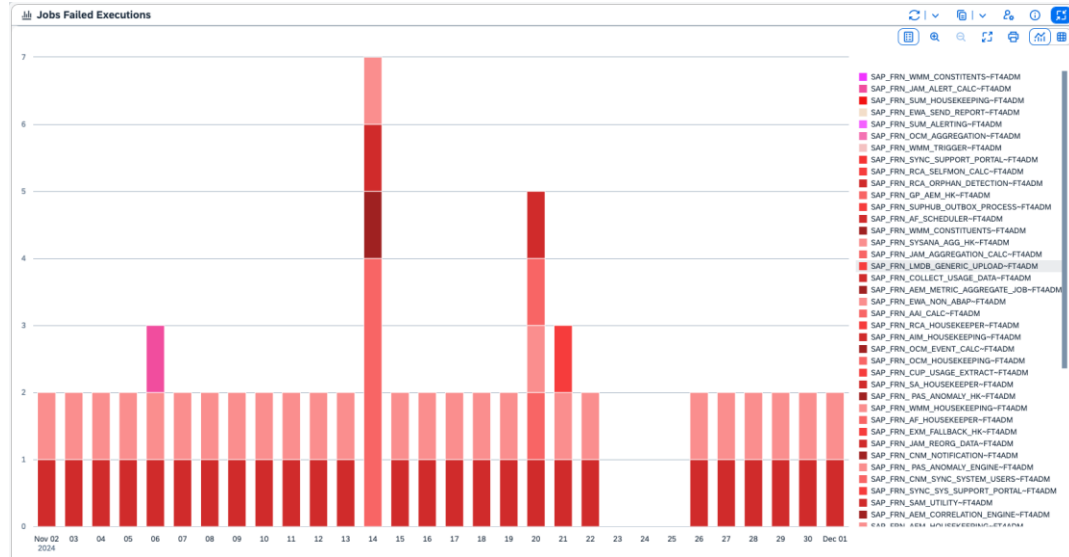
- SAP_FRN_WMM_CONSTITUENTS (FT4ADM NW_ABAP_JOB 200)
- /IWFND/APPL_LOG_CLEANUP (FT4ADM NW_ABAP_JOB 200)
- SADL_GW_CPL_LOG_CLEANUP (FT4ADM NW_ABAP_JOB 001)
- RDDDISOL (FT4ADM NW_ABAP_JOB 000)
- SAP_DHCDC_HOUSEKEEPER (FT4ADM NW_ABAP_JOB 000)

This screenshot shows the same interface as the previous one, but with more detail in the 'Job Name (59)' list. The 'SAP_FRN_JOBS (59)' group is selected, and several jobs within it are checked:

- SAP_FRN_AF_SCHEDULER (FT4ADM NW_ABAP_JOB 200)
- SAP_FRN_OCM_EVENT_CALC (FT4ADM NW_ABAP_JOB 200)
- SAP_FRN_RCA_ORPHAN_DETECTION (FT4ADM NW_ABAP_JOB 200)
- SAP_FRN_WMM_CONSTITUENTS (FT4ADM NW_ABAP_JOB 200)
- SAP_FRN_SYSANA_AGG_HK (FT4ADM NW_ABAP_JOB 200)
- SAP_FRN_SA_HOUSEKEEPER (FT4ADM NW_ABAP_JOB 200)
- SAP_FRN_TRACE_HK (FT4ADM NW_ABAP_JOB 200)
- SAP_FRN_LMDB_GENERIC_UPLOAD (FT4ADM NW_ABAP_JOB 200)

Job Group Support for Job Monitoring Data Provider (2/2)

It is now possible to select multiple Jobs at once to display multiple series, one for each Job and metric selected



Root Cause Analysis

System Analysis



System Analysis

- **OS Process data collection**
 - Now available for all system types
- **Scope selection for hosts**
 - Now available for all system types
- **Additional details for Thread Samples and expensive statements**
 - APPLICATION_COMPONENT Name/type
 - WORKLOAD_CLASS_NAME
 - ROOT_STATEMENT_HASH



The screenshot displays two parts of the SAP System Analysis interface. The top part is the "Configuration" screen, which is divided into sections for "System Settings", "ABAP", "SAP HANA", and "Other System Types". Each section has a refresh and save icon. The "ABAP" section shows "FT4ADM (FT4 on lddbft4)" with a last changed date of May 23, 2024, and a dropdown menu for "Work Process Samples x | OS Process x | 2 More". The "SAP HANA" section shows "FT4ADM (FT4 on lddbft4)" with "HANA Details: FT4ADM / No Replication / Physical Database" and a last changed date of Feb 5, 2024, and a dropdown menu for "Table Size x | Commit Time x | OS Process x | 6 More". The "Other System Types" section shows "CCW_WAS (ccwdfg19850_8005 ATC Server)" and "CCWTM001 (Cloud Connector on ccwdfgw1574)". The bottom part is the "Scope Selection" screen, which has tabs for "Technical Systems" and "Hosts". The "Hosts" tab is active, showing a "Standard" dropdown and a "Go" button. Below this are input fields for "Customer ID", "Data Center", "Host", and "Host Name Type". At the bottom, there is a "Hosts Standard" dropdown and a "Paging Size" of 40.

Root Cause Analysis

Configuration & Security Analysis



Configuration & Security Analysis

Configuration & Security Analysis



CSA Administration

In Configuration – Managed Components, you can now activate data collection for the following cloud services:

- SAP Credential Store
- Identity Provisioning
- Identity Authentication
- SAP Mobile Services

* A prerequisite for data collection is an existing SAP Cloud ALM tenant as data source

Collector Framework

- OS script interface has been enhanced for EVENT stores.
- COF Inbound Service (**sap/bc/rest/cof**) is set to 'Partially Restricted' for Security Session.

Policies

- For checks with operator (NOT_)EXIST now system_attribute is taken into account (before, it had been ignored).
- In Exemptions for Policies, the range of dates that you can select is now restricted to the years 2000-2039.

The screenshot shows the SAP Configuration & Security Analysis - Administration interface. The 'Managed Components' section is highlighted with a red box. Below it, the 'Cloud Services' section shows a list of services with their status (ON/OFF) and ESID.

Service ID	Service Name	Status	ESID
2e14f6f4-f6c6-4274-a	SAP Credential Store	OFF	2E1
8ddc0353-fe74-4d30-b	SAP Credential Store	OFF	8DD
742453367	Identity Authentication	ON	A5KF55ZP
740633253	SAP Mobile Services	OFF	A6F89599
740485793	Identity Authentication	ON	ACFFB3HS
742730349	Identity Authentication	OFF	AERFWGP5

Configuration & Security Analysis



CCDB New Config stores:

SAP ABAP

- ABAP ETD - several stores (customizing for SAP Enterprise Threat Detection, content of tables):
SETD_G_CFG, SETD_S_CFG, SETD_G_CFG_LOG, SETD_S_CFG_LOG, SETD_G_CFG_SEN,
SETD_S_CFG_ALW, SETD_C_CFG, SETD_C_CFG_LOG, SETD_C_CFG_SEN
- Virus scan server profiles
- Virus scan server profiles mimes
- HTTP Security Header Framework – Header
- HTTP Security Header Framework - Trusted

Operating System for Web Dispatcher

- SAP_ITSAMInstance_Properties*

* prerequisites: SDA 1.65 and SAP Host Agent 7.22 PL65

SAP Cloud Connector / Web Dispatcher

- certificates stores: serialNumber added**

** prerequisites: SDA 1.65 and

SCC Version 2.17.0 / WebDispatcher Version e.g. 7.89 SP250 (SAP note 3477358)

Virus scan server profiles mimes (VSCAN_PROF_MIME)

PROFILE	MIMETYPE
/SCET/DP_VS_ENABLED	application/x-shockwave-flash
/SCET/DP_VS_ENABLED	application/x-silverlight-2
/SCET/DP_VS_ENABLED	application/x-silverlight-app
/SCET/DP_VS_ENABLED	application/x-silverlight
/SCET/DP_VS_ENABLED	application/xhtml+xml
/SCET/DP_VS_ENABLED	text/html
/SCET/DP_VS_ENABLED	text/javascript
/SCET/DP_VS_ENABLED	text/html

WDISP Instance Properties (SAP_ITSAMInstance_Properties)

AREA	NAME	VALUE
W90	InstanceTypeShort	WEBDISP
W90	ProfileDirectory	/usr/sap/WEB/SYS/profile
W90	SID	WEB
W90	SIDadm	webadm
W90	SIDadmGIDs	79
W90	SIDadmUID	1008
W90	SapKernelVersion	789, patch 68, changelist 2173758
W90	SystemNumber	90

Operation Automation



Input activities

You can include **activities** in your guided procedure where the guided procedure processor needs to **enter input**.

The entered input can be processed in the subsequent activities.

You can either define **static input** (no-code) or **dynamic input** that depends for example on the results of previous activities or alert details (low-code)

Use cases:

- Approval steps
- decision steps
- manual problem analysis

The screenshot shows the SAP Guided Procedures interface. The main window is titled 'Guided Procedure Instance' and displays the 'Resolve Multiple IDocs in Error State' activity. The status is 'Not Performed'. The scope is 'QM7DLM-ABAP'. The last changed by is 'RICHARTS' and the last changed on is '07/15/2024 10:45'. The interface shows a table of 'IDocs in error status' with columns: Number of Idocs, IDoc Type, Status, Direction, Sender port, and Receiver Port. Below the table is an 'Input' form with a dropdown menu for 'Select Error Message for IDoc CREMAS07?' and a 'Send Mail to' dropdown menu. The 'Send Mail to' dropdown menu is open, showing options: 'Send Mail to', 'Reprocess', and 'Ignore'. The 'Save' button is visible at the bottom of the form.

Number of Idocs	IDoc Type	Status	Direction	Sender port	Receiver Port
13	ADRMAS03	02	1	QM7CLNT002	QE6CLNT002
7	BUPA_INBOUND_MAIN_S...	02	1	QM7CLNT002	QE6CLNT002
7	DEBMAS08	29	1	QM7CLNT002	QE6CLNT002
7	DEBMAS08	29	1	QM7CLNT002	QE6CLNT910
7	DEBMAS08	29	1	QM7CLNT002	QE6CLNT910
7	DEBMAS08	29	1	QM7CLNT002	QM7CLNT405
6	CREMAS07	29	1	QM7CLNT002	QE6CLNT002
6	CREMAS07	29	1	QM7CLNT002	QE6CLNT910
6	CREMAS07	29	1	QM7CLNT002	QE6CLNT910

Dynamic steps and activities

You can define that certain steps or activities will be **visible** and can be executed only **if** certain **conditions are met**. The following conditions are possible:

- Always visible (default)
- Only visible for certain system or database types
- Only visible if a previous step or activity has a certain status
- Visible based on results of previous activity or user input

Use cases: Dynamic problem resolution procedures, guided procedures with activities for ABAP, JAVA,... where only certain activities shall be active based on system or database type, ..

Edit Activity

Name* Solution: Restart database

Description

Type Simple

Navigation [New](#) [Edit](#) [Remove](#)

Input source None

Optional Activity

Active

Always

If Activity status is

If

- Check Current Rating of Alert
- Check Related Alerts for Current System
- Check Agent Availability
- Check Database Availability (GetDatabaseStatus)**
- Check System Availability (GetProcessList)
- Check Work Processes Status (ABAPGetWPTTable)
- Check File System Free Space on all host of the managed system
- Check for High CPU Usage on all hosts of the managed system

Added Enhancement Points at start and end of guided procedure processing

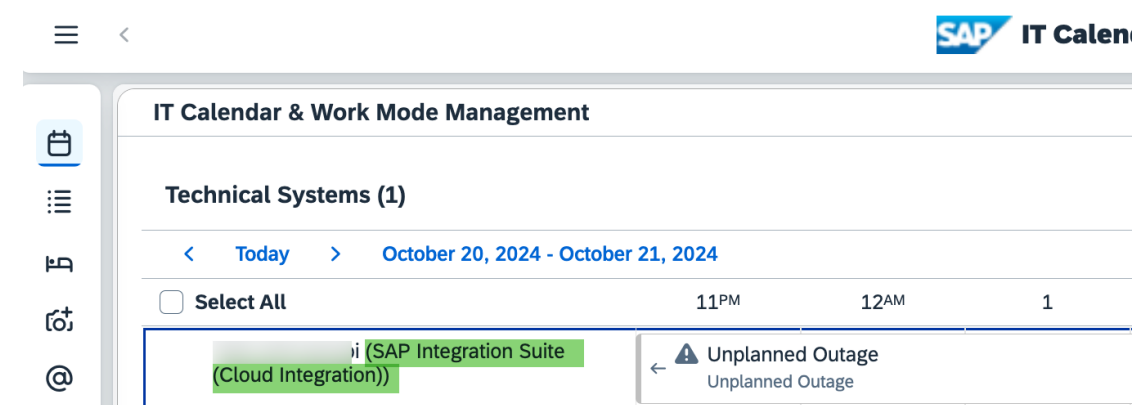
- You can implement **enhancements at start and end of guided procedure** processing. In the enhancements you can define your **own logic** for example sending the guided procedure result report to an external ticketing tool.
- In Focused Run 5.0 SP0 the enhancement points are triggered if the guided procedure is **executed in background**, not if the guided procedure is executed manually.

Service Level Management



Service Level Management

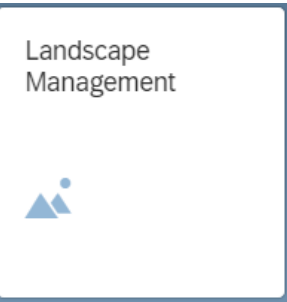
- In addition to planned events, IT Calendar displays also **unplanned outages** reported by Service Availability Management. The unplanned outages become visible in IT Calendar as soon as they are detected.
- Cloud Services in IT Calendar and Service Availability Management are shown together with the **cloud service type (e.g. SAP S/4 HANA Cloud, SAP Ariba Shopping,...)** instead of generic system type “Cloud Service”.
- The **Service Availability Definition** view in Service Availability Management provides additional **search options**.



Infrastructure Administration

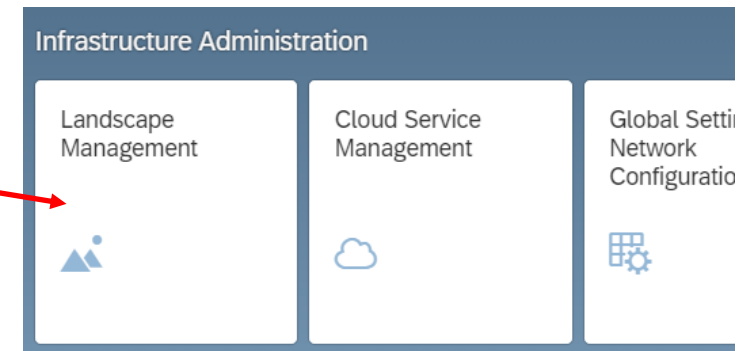
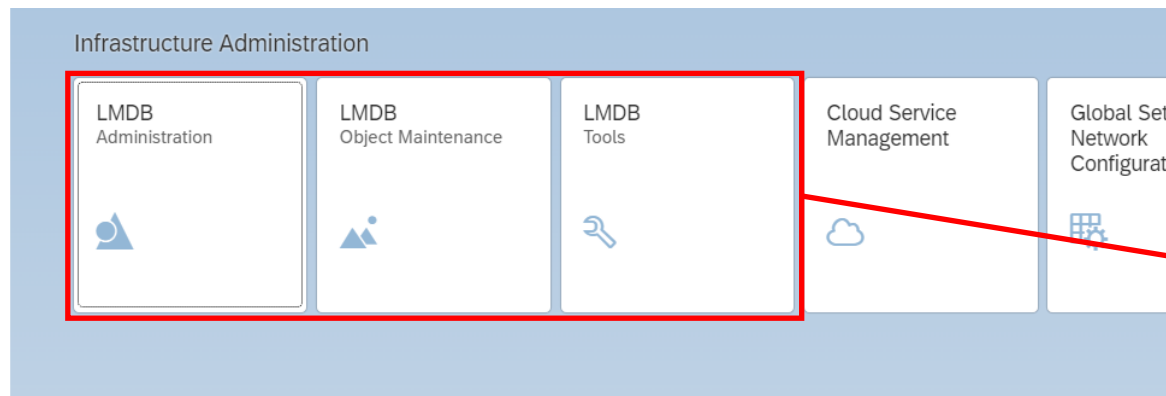


Landscape Management

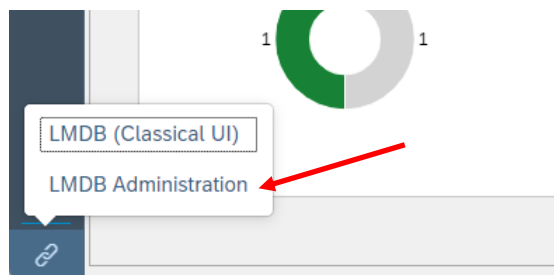


- **LMDB Tools is now Landscape Management:**

- “LMDB Tools” and “LMDB Object Maintenance” are now united under the new tile “Landscape Management”



- “LMDB Administration” can now be accessed via related links in Landscape Management

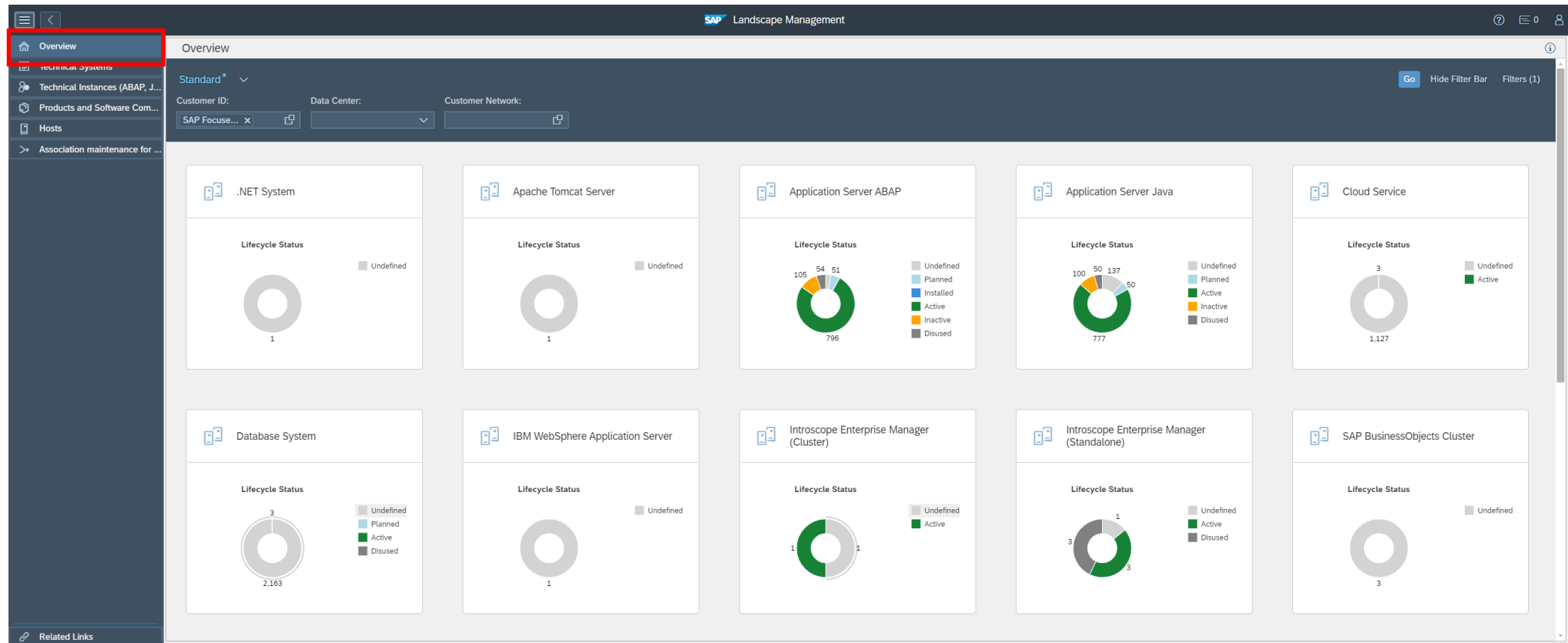


Landscape Management



- **New Start Page:**

- Landscape Management got a new Start Page, that shows the number of systems per system type and Lifecycle Status
- When you click on the System type you are forwarded to the Technical Systems and the System Type filter will be pre-filled





Landscape Management

- **Access to hierarchical view**

- The system name link now leads to the hierarchical view

Technical Systems

Standard*

Customer ID: 13 Items | Data Center: | Extended System ID: FT4* x | System Type: Application Ser x | Cloud Service Type: | Cloud Service Name: | Lifecycle Status: | IT Admin Role: | Customer Network:

Technical Systems (1 / 1)

Ext. System ID	Data Center	Customer	System Database	Data Supplier Completeness	Consistency Check	System Number	Installation Number
FT4ADM		LOCALNETWORK ADM	FT4ADM SAP HANA Database	Up to date Last Check: 13.11.2024	Consistency Check Last Check: 03.05.2024	00000000800163419	0020270862

- The classic technical system editor, as well as other applications, can still be accessed via a link in the technical system

Technical Systems

Details for selected entity

Graph View | Tree View

FT4ADM (Application Server ABAP)

Lifecycle Status: Active
System Number: 00000000800163419

FT4ADM (HANA Database System)

FT4ADM

Details View: OFF | Refresh | Related Links

- LMDB (classical UI)
- System Monitoring
- Alert Event Management
- System Analysis
- IT Calendar

Object Properties | Data Supplier Completeness | System Database | Clients | Assigned Business Partners | Installed Licenses | Addit...



Landscape Management

• Edit Mode

- You can now change certain object properties, additional attributes and delete technical instances in the new Technical System Editor
- Properties that would normally be provided by the data suppliers automatically cannot be changed in the new Technical System Editor, to change these values please navigate to LMDB (classical UI)

FT4ADM

Details View: OFF Refresh Related Links

Type: System
System Type: Application Server ABAP
Installation Number: 0020270862
System Number: 00000000800163419
Extended SID: FT4ADM
System ID: FT4

Object Properties Data Supplier Completeness System Database Clients Assigned Business Partners Installed Licenses Additic > v

Object Properties

IT Admin Role	Production System
Priority	Undefined
Lifecycle Status	Active
Short Description	FRUN Demo System

Edit

AppServer 04 of FT4 on ldcif4

Details View: OFF Delete Refresh Related Links

Type: System Instance
Instance Type: BC Application Server
Enabled State: Undefined
Working Directory: /usr/sap/FT4/D04/work
Instance Number: 04
Instance Name: ldcif4_FT4_04

Object Properties HTTP Ports TCP/IP Ports

Object Properties

Host Name ldcif4

HTTP Ports

HTTP Port Name	URL
icm/server_port_0	http://ldcif4.wdf.sap.corp:50004
icm/server_port_1	https://ldcif4.wdf.sap.corp:44304

TCP/IP Ports

Landscape Management



- **Public APIs for Landscape Management:**

- Enhancement to the **public** REST API
 - Add ABAP clients to response payload for system
- Find the API documentation here: [LMDB Public REST API \(sap.com\)](https://www.sap.com/technology/landscape-management/public-api/)

Simple System Integration



- **Global Settings & Network Configuration Improvements:**

- The user and the password for the proxy for agent communication can now be maintained in the Network Configuration

A screenshot of the SAP Global Settings & Network Configuration interface. The page title is "Global Settings & Network Configuration". The breadcrumb trail shows "Demo_FRUN4_FP03" and "Proxies". The "Proxies" section is active, with sub-sections for "Forward Proxy" and "Reverse Proxy". Under "Forward Proxy", there is a checkbox "Use Proxy for Agent Communication:" which is checked. Below it are input fields for "Proxy Host Name:", "Proxy Port Number:", "Proxy User:", and "Proxy Password:". The "Proxy User:" and "Proxy Password:" fields are highlighted with a red rectangular box. Under "Reverse Proxy", there is a dropdown menu "Reverse Proxy Port Type / Authentication:" set to "HTTPS / Basic Authentication". Below it are input fields for "Reverse Proxy Host Name:" (containing "reverseproxy") and "Reverse Proxy Port Number:" (containing "8000").

- **Agent Administration**

- Agent Administration now only supports SapMachine as JVM for Simple Diagnostics Agents

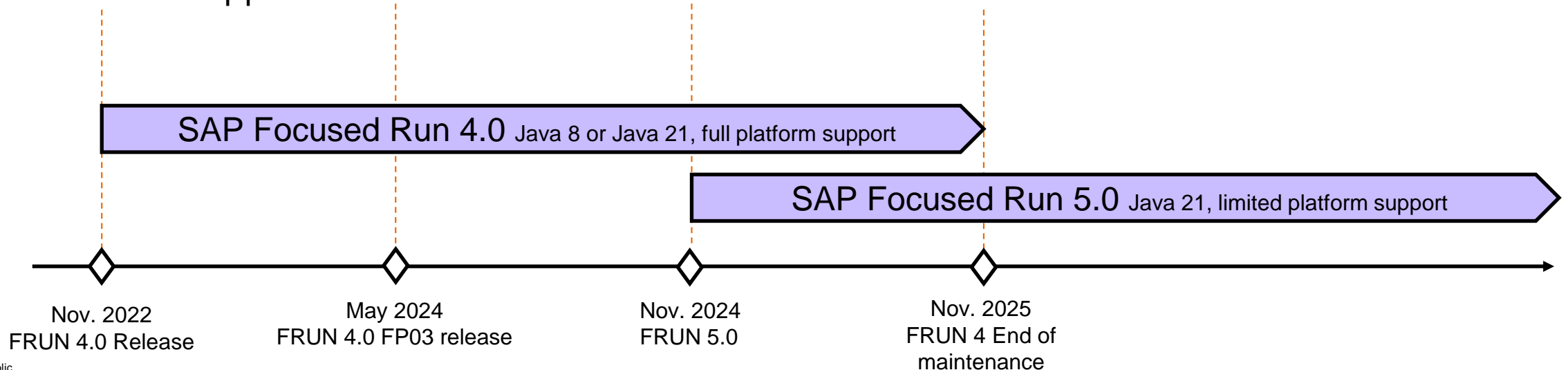
- **Other :**

- The web service operation TECHNICAL_SYSTEM_SET_PROPERTIES now supports batches instead of only single systems
- The Customer Network initialization Web Service now recreates RFC destinations asynchronously after a sapadm password change to avoid timeouts

Simple Diagnostic Agent – Release Time Line

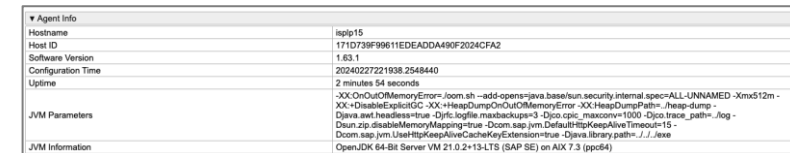
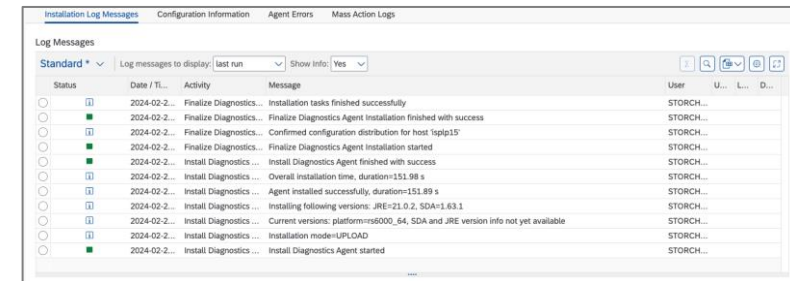
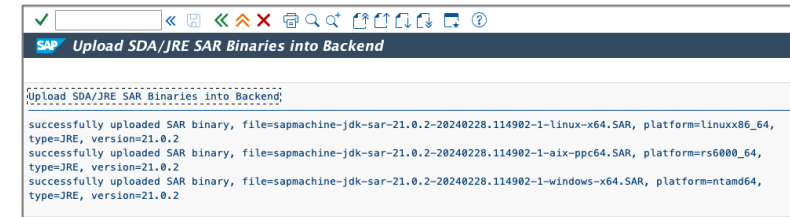
- To be compliant to SAP standard security patch processes the transition of the Simple Diagnostic Agent to Java21 is necessary
- Java21 support starts with SAP Focused Run 4.0 FP03 and is the long-term solution for SAP Focused Run
- SAP build on Java21 will not support all OS platforms, which are supported by the current SDA version
- Support for IBM specific SAP build on Java21 for AIX is available since May 2024
- Java8 is still supported in SAP Focused Run 4.0 FP03

CPU architecture	FRUN 4 FP3	FRUN 5.0 ++
AIX64	X	X
HP-UX	X	-
LinuxPPC64 le	X	X
LinuxPPC64 be	X	-
Linuxx86_64	X	X
Solaris64	X	-
Solaris SPARC	X	-
Windowsx86_64	X	X



Simple Diagnostic Agent – Transition process

- Smooth transition from SDA on Java 8 to SDA on Java 21 is expected
- Latest with the upgrade to SAP Focused Run 5.0 SP00 the transition of the SDA's for the complete landscape needs to be finalized
- SDA deployment procedure will stay unchanged
- SDA software dependencies:
 - SAP Host Agent \geq 7.22 PL64
 - Simple Diagnostics Agent \geq 1.63.0





Cloud Service Management

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

- **Cloud Service Management enhancements :**

- Additional properties are now displayed for cloud services imported via the Landscape Sync
- Click on the Extended SID of the Cloud Service to navigate to the Cloud Services details
- The use case for endpoints is now shown in the endpoints table

The screenshot displays the SAP Cloud Service Management interface. On the left, a list of cloud services is shown, with 'HANA_CAL' highlighted. A red box highlights the 'HANA_CAL' entry, and a red arrow points to the 'PROPERTIES' tab in the detailed view. The detailed view shows the following properties:

Name	Value
Extended Service Id	HANA_CAL
Service Type	SAP HANA Cloud
Tenant Name	hana-calm-1
Tenant Id	S0202776435
Description	hana-calm-1
Root URL	https://hana-cloud-
Customer Id	LDB
Customer Network	CloudALM_Landsc
Source	SAP Cloud ALM
Number of Endpoints	1
Customer Number	

Below the properties, the 'HTTP ENDPOINTS' tab is active, showing a table with one endpoint:

Endpoint ID	Description	Use Case	Authentication	User	Proxy Host	Proxy Port	Proxy User	Status	Default
HANA_CAL_HTTP_01	Monitoring Endpoint ha...	Health Monitoring	OAUTH	sb-f4c61428-96c6-45df-90b6-7...				✔	ⓘ

- **New Content :**

- SAP Cell and Gene Therapy Orchestration, SAP Ariba Category Management, SAP Order and Delivery Scheduling, SAP Variant Configuration and Pricing, Identity Authentication, Identity Provisioning, SAP Credential Store, SAP Digital Vehicle Hub, SAP Mobile Services,

Self Monitoring 1/2



Central Components

- **Health Monitoring**

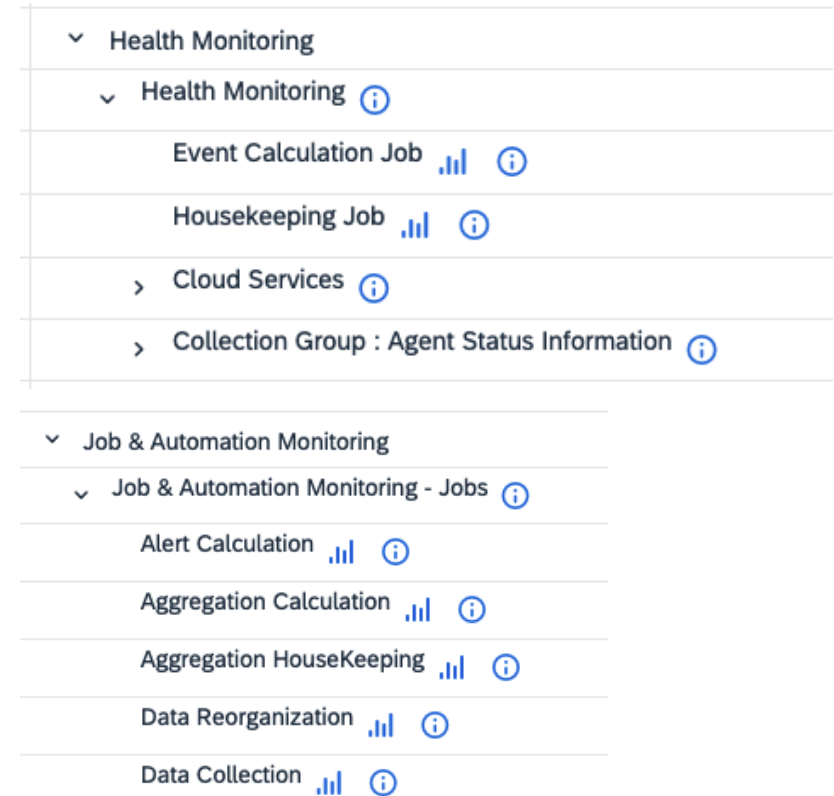
- Cloud Service Status (push/read status)
- Data Collection Group status

- **Job and Automation Monitoring**

- Job Status

- **Expert Scheduling Management**

- Adding metric “*Task in status in process or running for N minutes*”



Self Monitoring 2/2

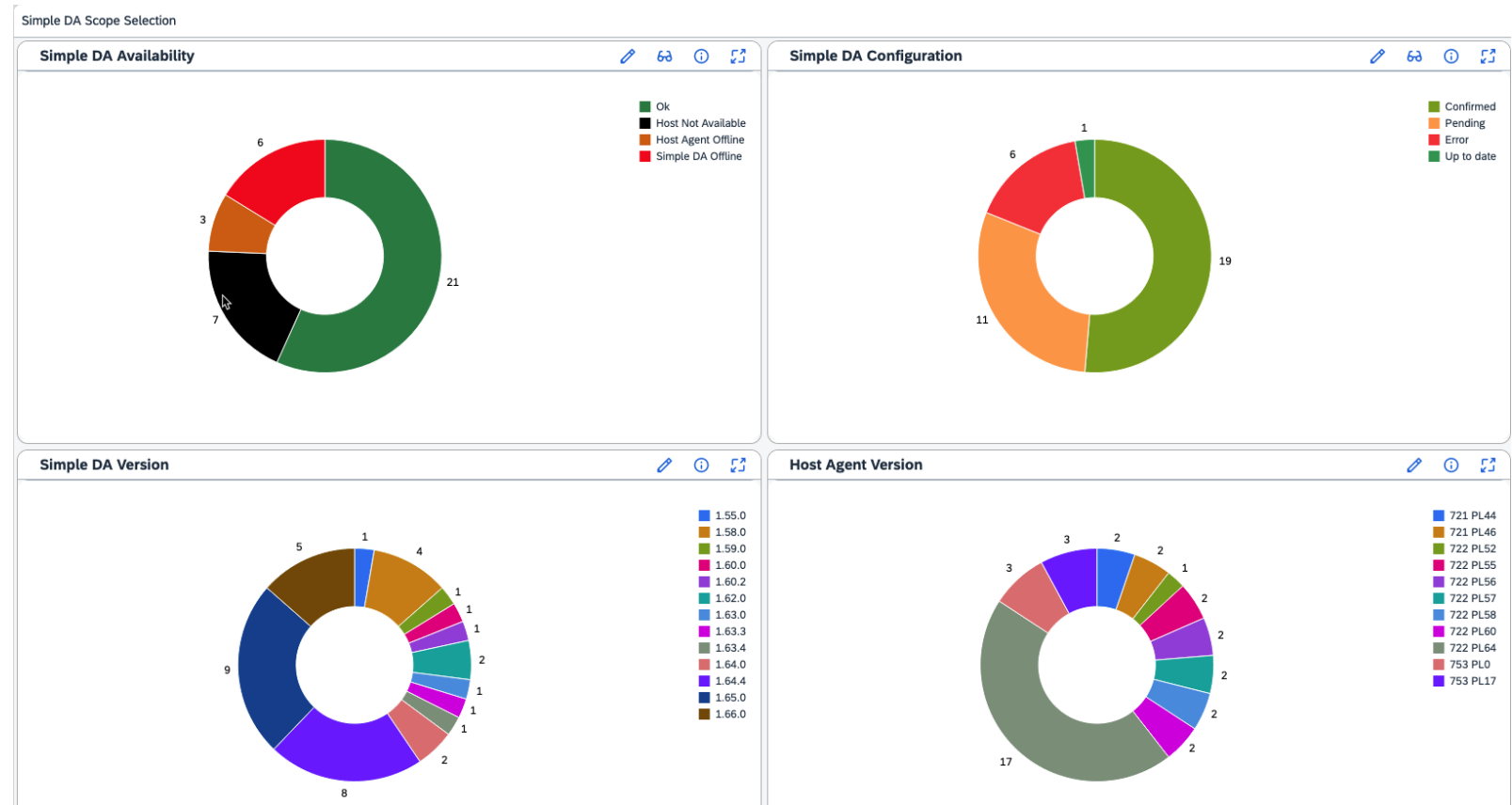


Simple DA

- **Adding Simple DA Configuration dashboard**

- Simple DA Availability monitors the connection from Simple Diagnostics Agents to SAP Focused Run

- Simple DA Configuration monitors the connection from SAP Focused Run to SAP Hostagent/Simple Diagnostics Agents



Outlook



SAP Focused Run – Functional Roadmap

New version of simple diagnostic agent based on future-proof SAPMachine architecture

New and enhanced data providers for OCC dashboards

Capability for customer specific enhancements in system analysis

Changed handling and visualization of cloud services in IT calendar and service availability management

Dynamic thresholding based on experiences from the past for selected metrics in system monitoring

Instance context and conditional appearance of steps and activities in guided procedure framework

Graphical overview for a single system including change capability in landscape management

Ability to define alerts on step level instead and not only on scenario level for synthetic user monitoring

Support of SAP Integration Suite - Edge Integration Cell and tRFC/bgRFC for ABAP systems in integration monitoring

Allow to enforce visualization of data in the context of a certain time zone in system analysis

Enable data collection from OpenTelemetry or Prometheus based data providers in health monitoring

Content for jobs on SAP BTP, SAP BusinessObjects or SAP Data Services in job & automation monitoring

Extend content for SAP cloud services in SAP Focused Run by using SAP Cloud ALM as data proxy

Latest Innovations

Planned Innovations

Thank you.

Contact information:

Janko Budzisch
Chief Product Owner
SAP Product Engineering
janko.budzisch@sap.com

Stefan Lahr
Chief Solution Owner
SAP Product Engineering
stefan.lahr@sap.com

Additional information:

SAP Focused Run Home Page:
<https://support.sap.com/en/solution-manager/focused-solutions/focused-run.html>

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

