SAP Focused Run

- News with Release 5.0 SP00 -

Product Management of SAP Focused Run
December 2024

SAP

Disclaimer

The information in this presentation is confidential and proprietary to SAP and may not be disclosed without the permission of SAP. Except for your obligation to protect confidential information, this presentation is not subject to your license agreement or any other service or subscription agreement with SAP. SAP has no obligation to pursue any course of business outlined in this presentation or any related document, or to develop or release any functionality mentioned therein.

This presentation, or any related document and SAP's strategy and possible future developments, products and or platforms directions and functionality are all subject to change and may be changed by SAP at any time for any reason without notice. The information in this presentation is not a commitment, promise or legal obligation to deliver any material, code or functionality. This presentation is provided without a warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for a particular purpose, or non-infringement. This presentation is for informational purposes and may not be incorporated into a contract. SAP assumes no responsibility for errors or omissions in this presentation, except if such damages were caused by SAP's intentional or gross negligence.
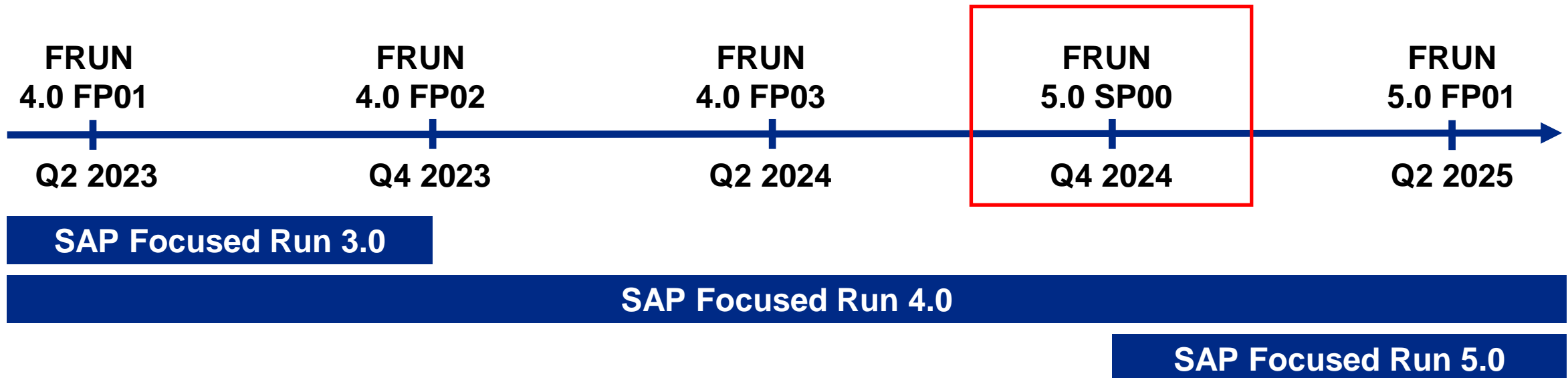
All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.
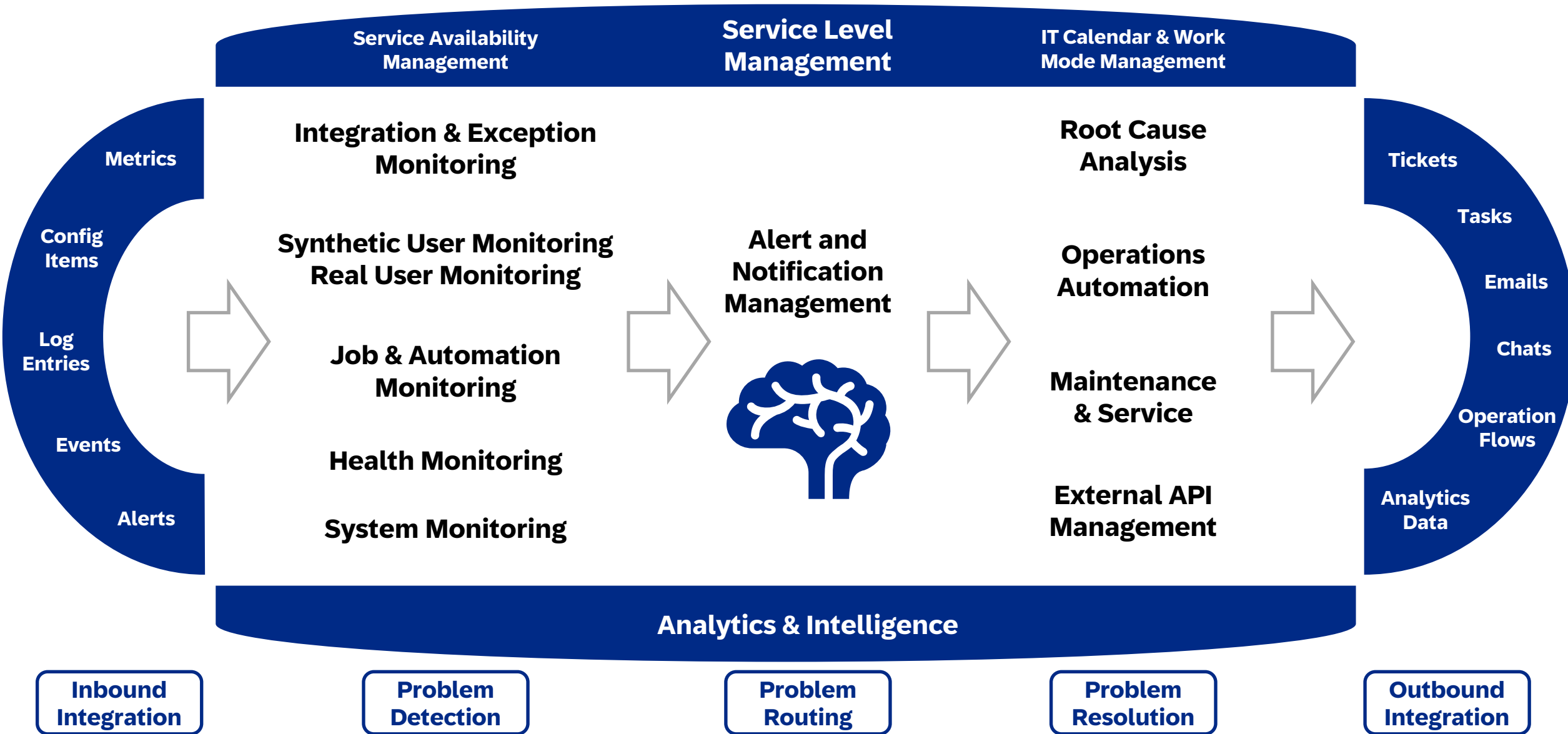
Overview

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**

FRUN 4.0 FP01	FRUN 4.0 FP02	FRUN 4.0 FP03	FRUN 5.0 SP00	FRUN 5.0 FP01
Q2 2023	Q4 2023	Q2 2024	Q4 2024	Q2 2025

SAP Focused Run 3.0

SAP Focused Run 4.0

SAP Focused Run 5.0

SAP Focused Run – Functional Overview

Service Availability Management

Service Level Management

IT Calendar & Work Mode Management

Metrics

Config Items

Log Entries

Events

Alerts

Integration & Exception Monitoring

Synthetic User Monitoring Real User Monitoring

Job & Automation Monitoring

Health Monitoring

System Monitoring

Alert and Notification Management

Root Cause Analysis

Operations Automation

Maintenance & Service

External API Management

Tickets

Tasks

Emails

Chats

Operation Flows

Analytics Data

Analytics & Intelligence

| Inbound Integration | Problem Detection | Problem Routing | Problem Resolution | Outbound Integration |

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

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.
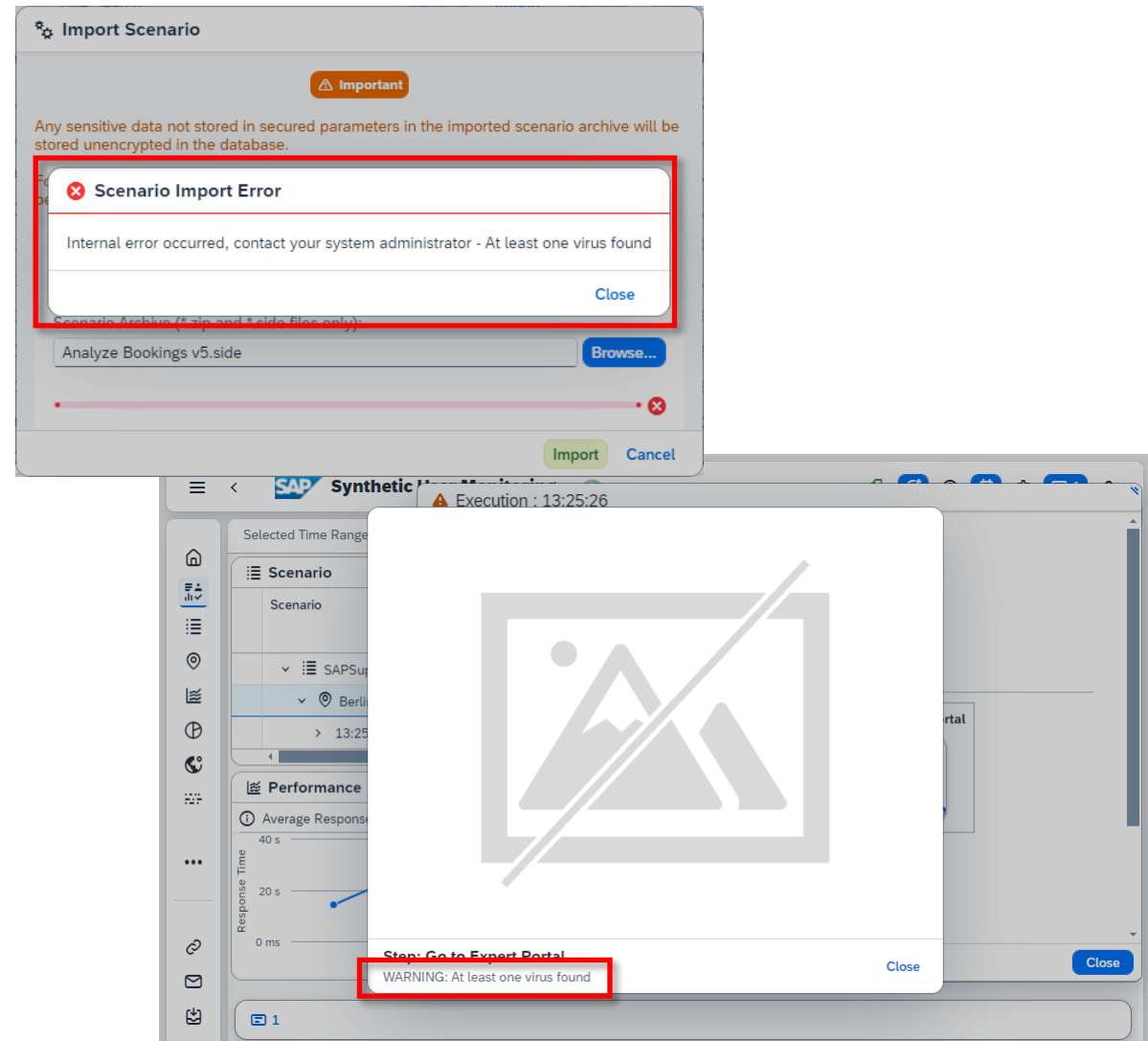
Real User Monitoring

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
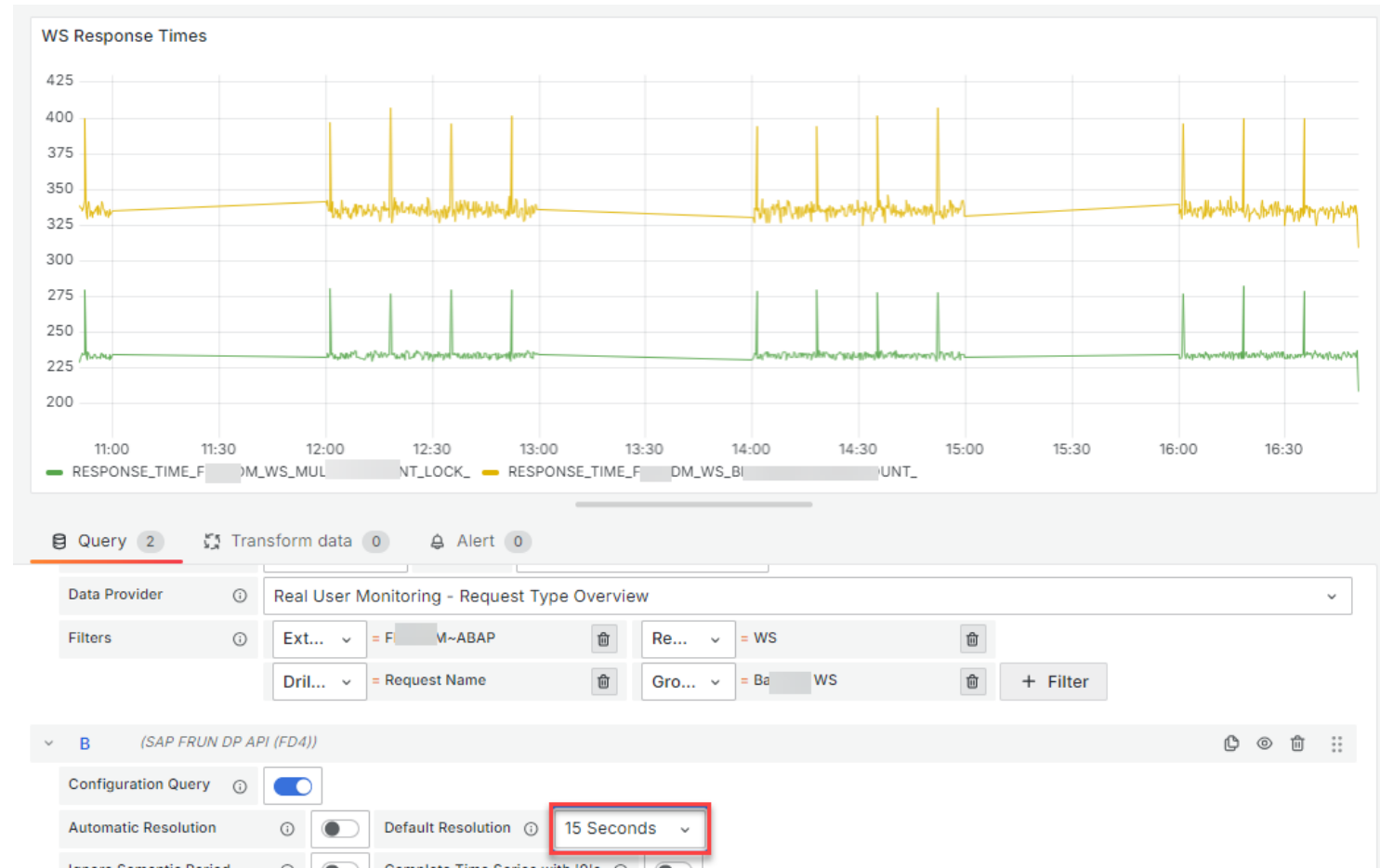
Job & Automation Monitoring

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.

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

Technical Systems

Cloud Services

Job Definitions

Job Groups

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...	ON	Active	JAISWALDU	Aug 30, 2024, 9:06:25 AM
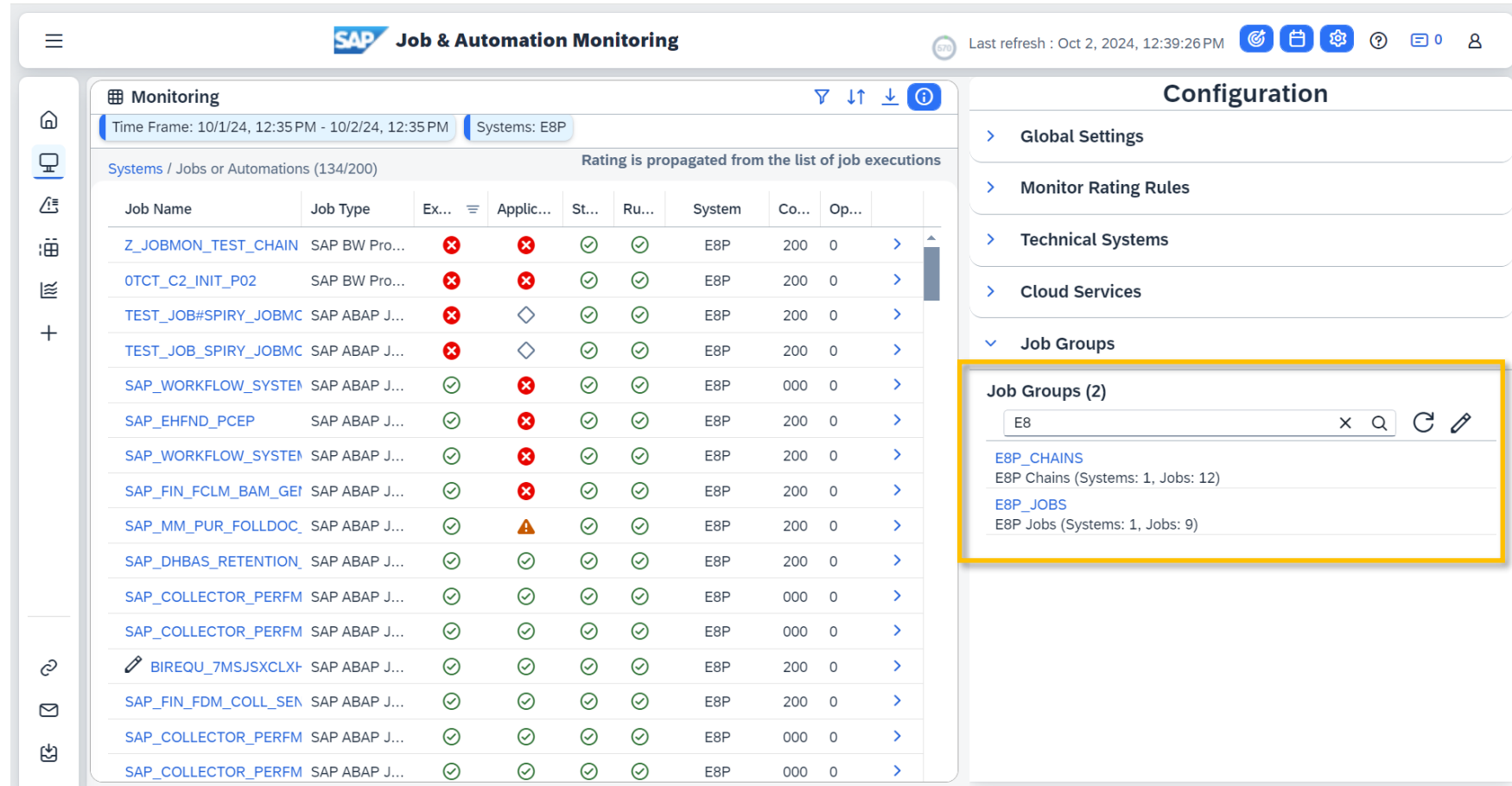
Close

Job & Automation Monitoring

Configuration for job groups

Access to job group from configuration side pane is enabled.

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
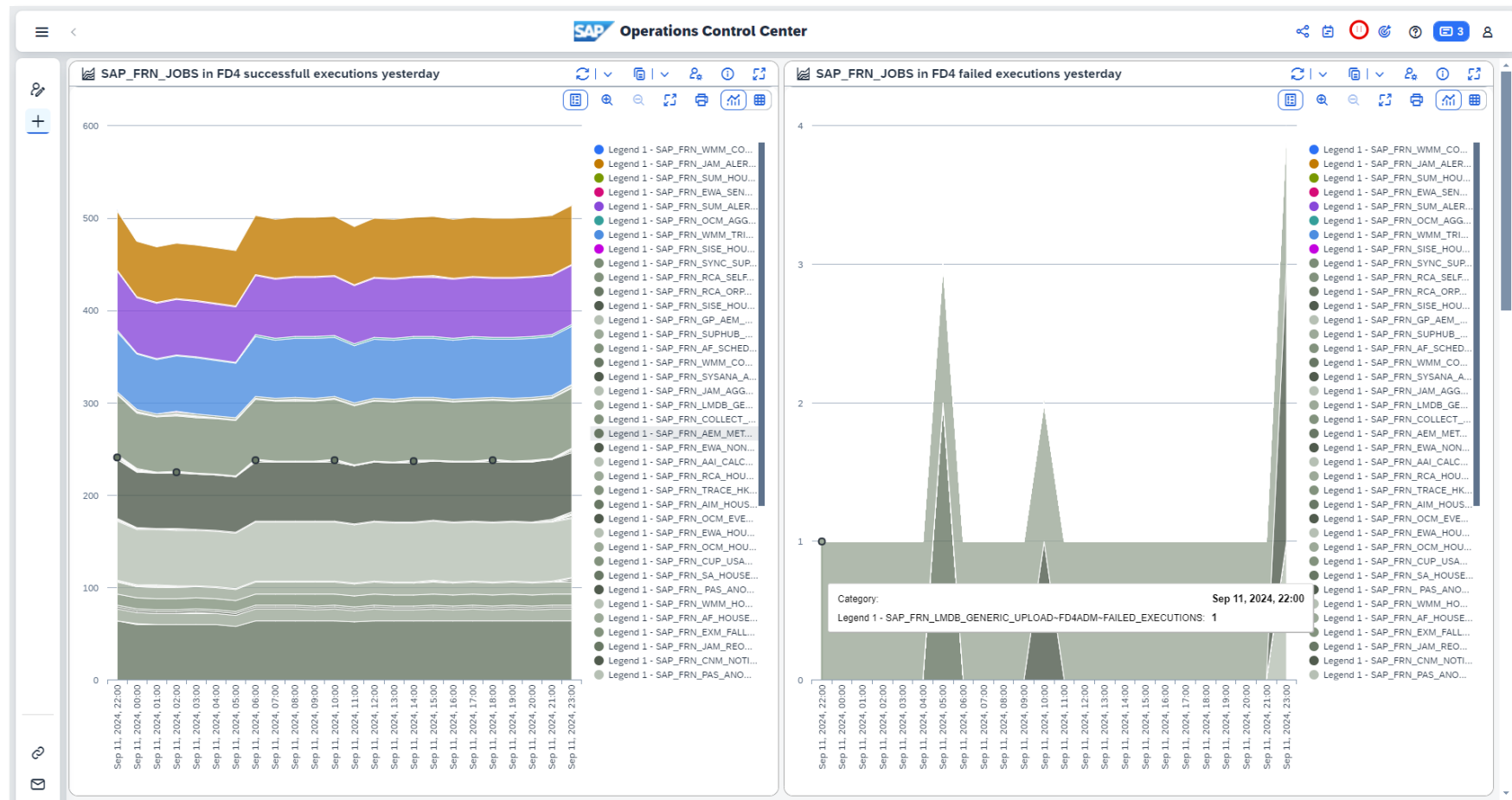
Job & Automation Monitoring

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.
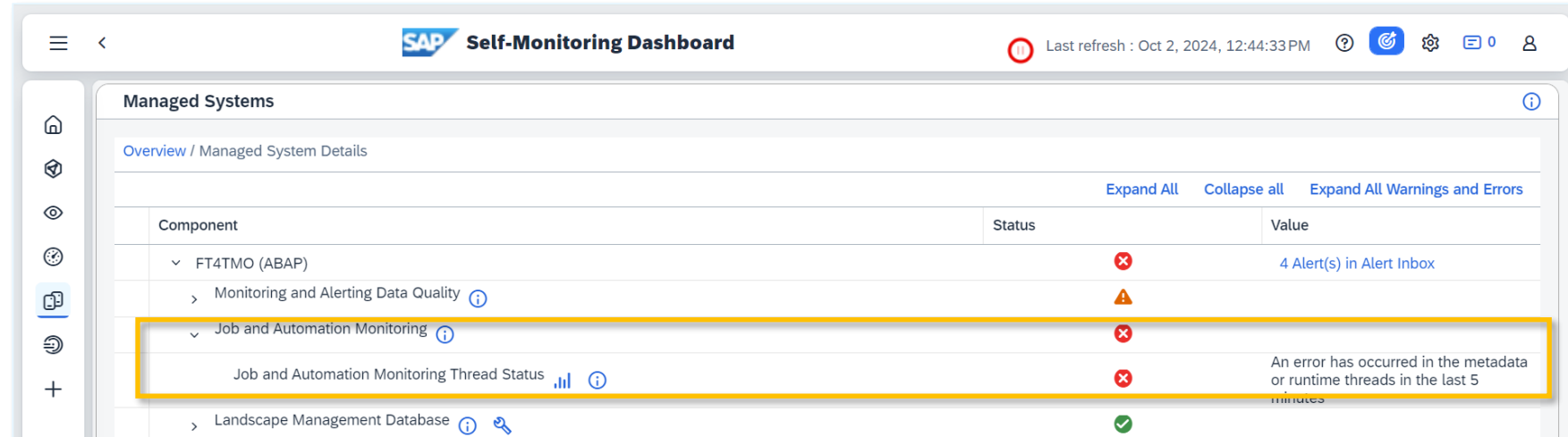
Job & Automation Monitoring

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)
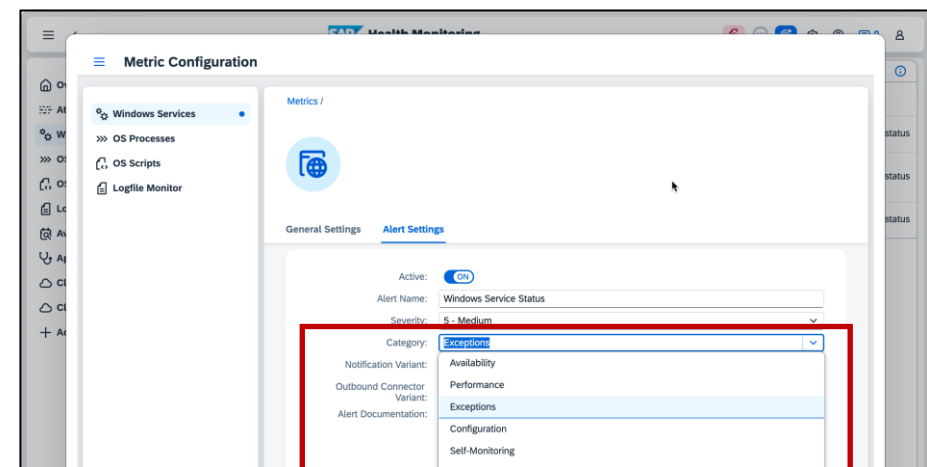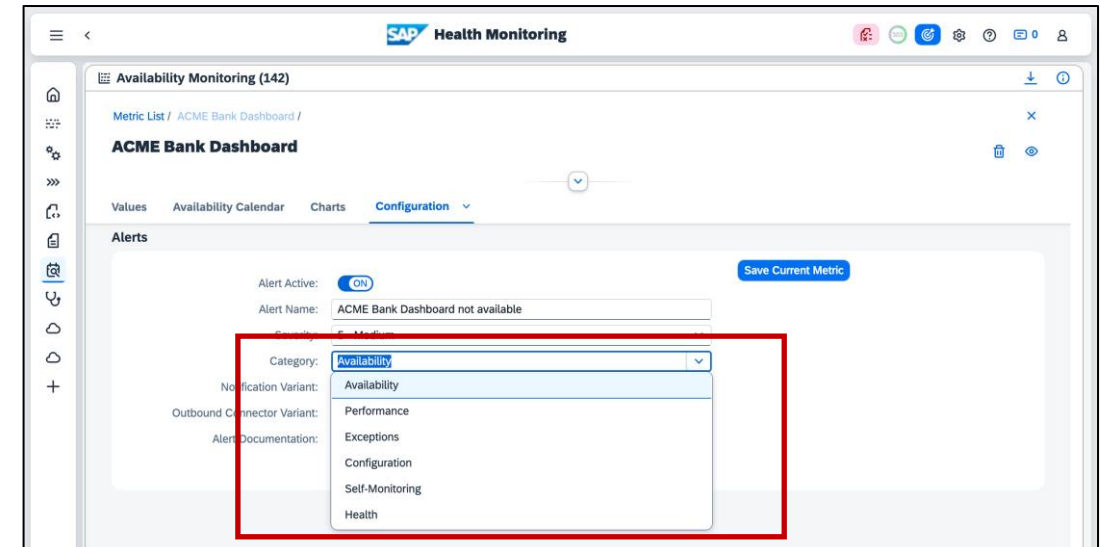
Public

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

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.

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)

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)
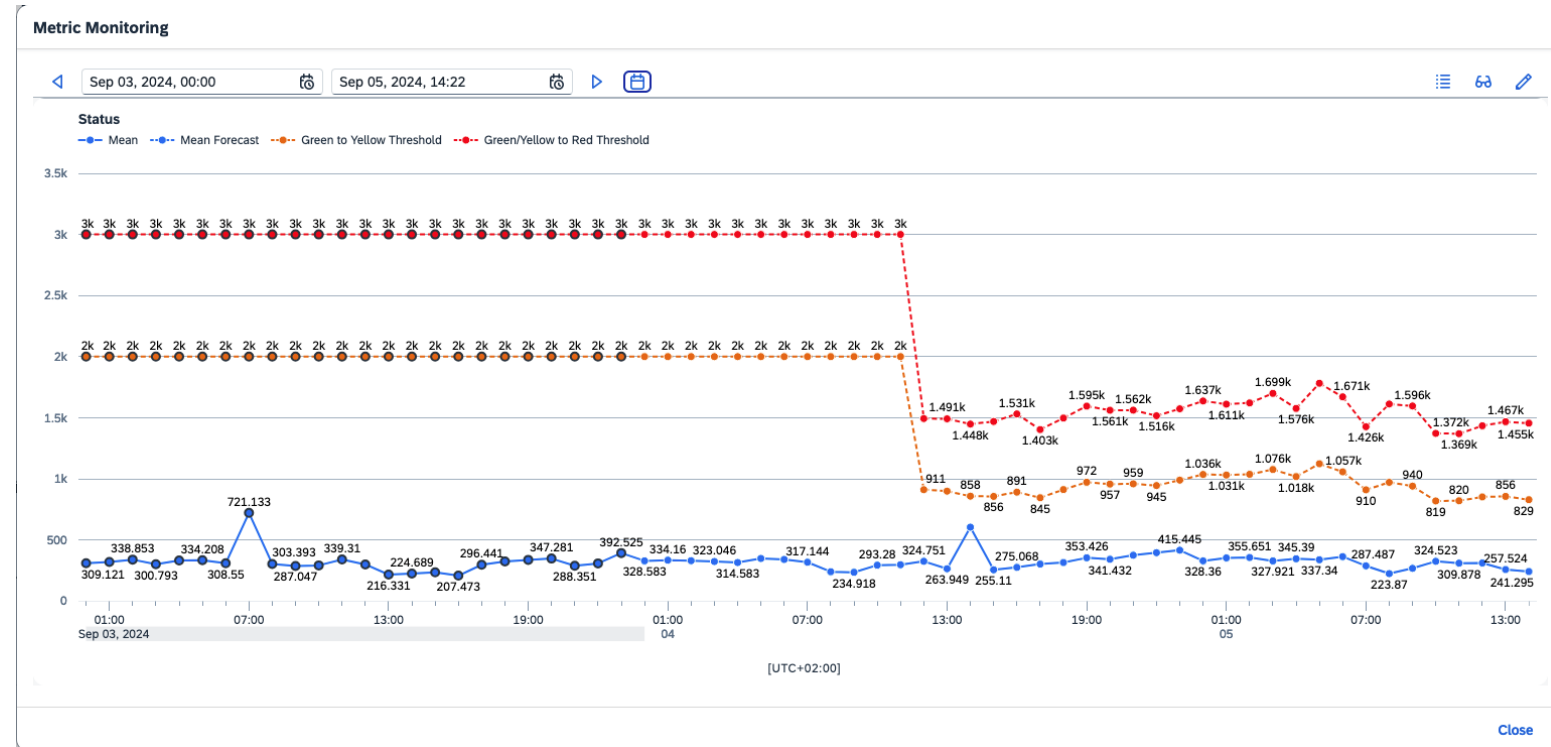
Demo: System Monitoring

Analytics & Intelligence
OCC Dashboard
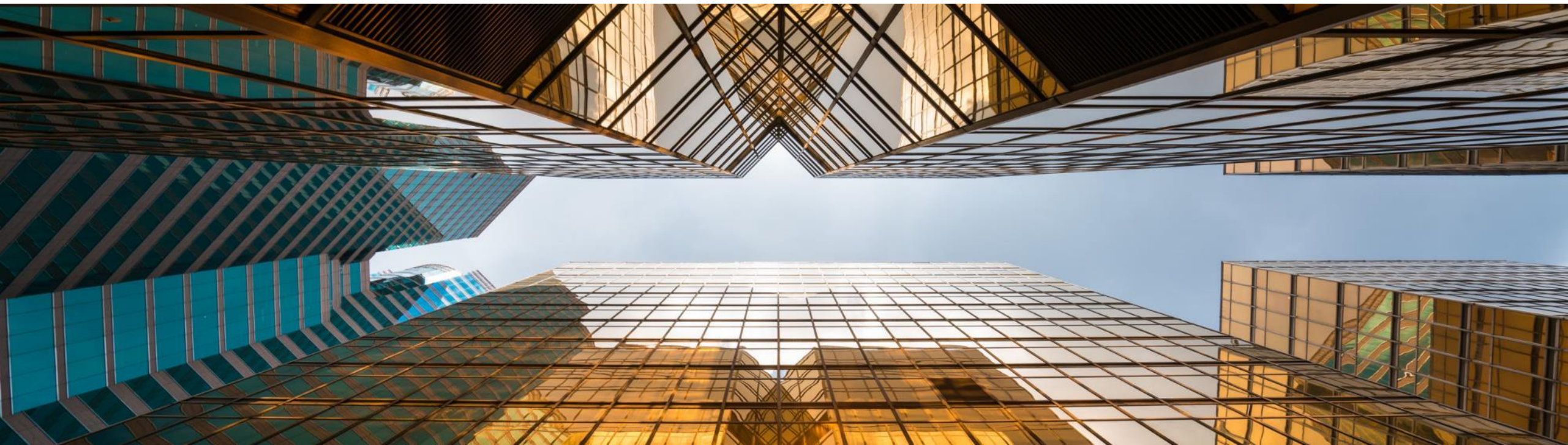
Rename Series with Regular Expressions (1/4)

The Analytics Dashboards provide access to heterogeneous applications using different APIs

Each data providers display different series name
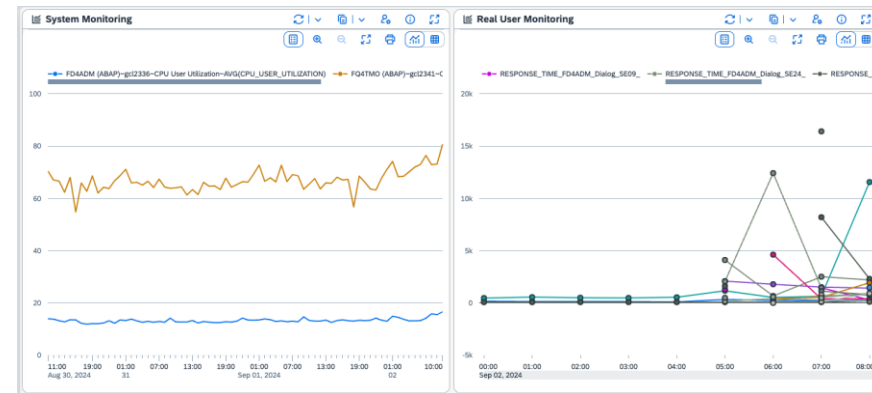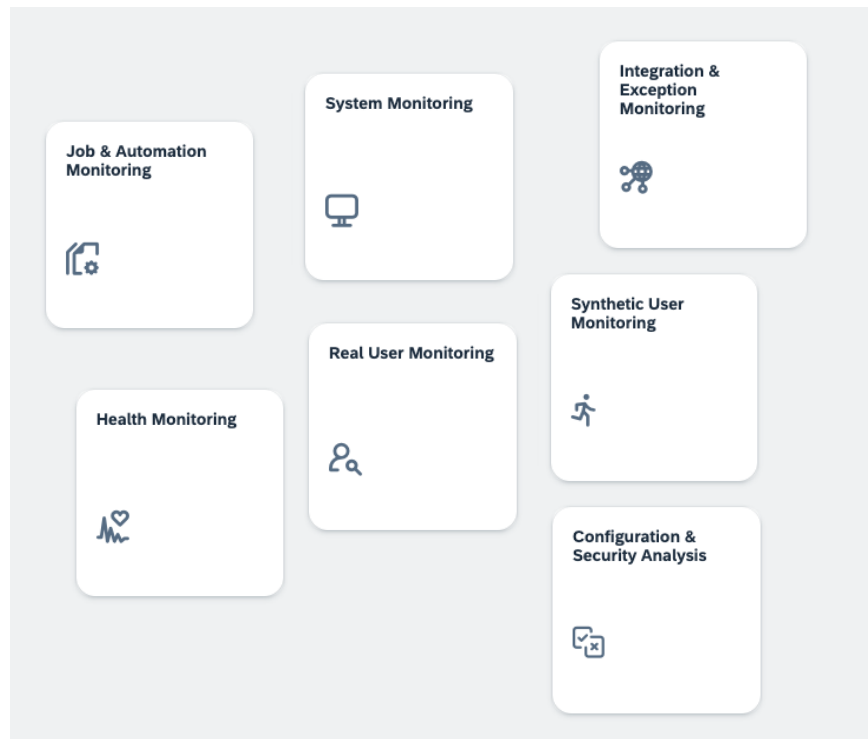
Different data providers from the same use case can show different series names depending on the drilldown options
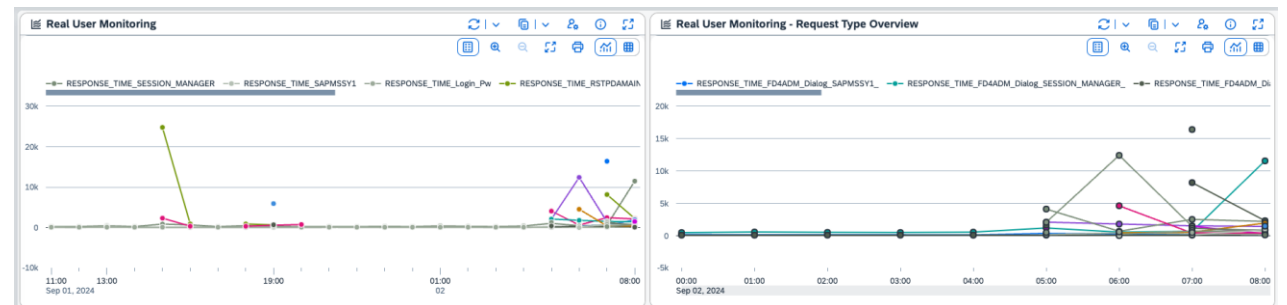
Rename Series with Regular Expressions (2/4)

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
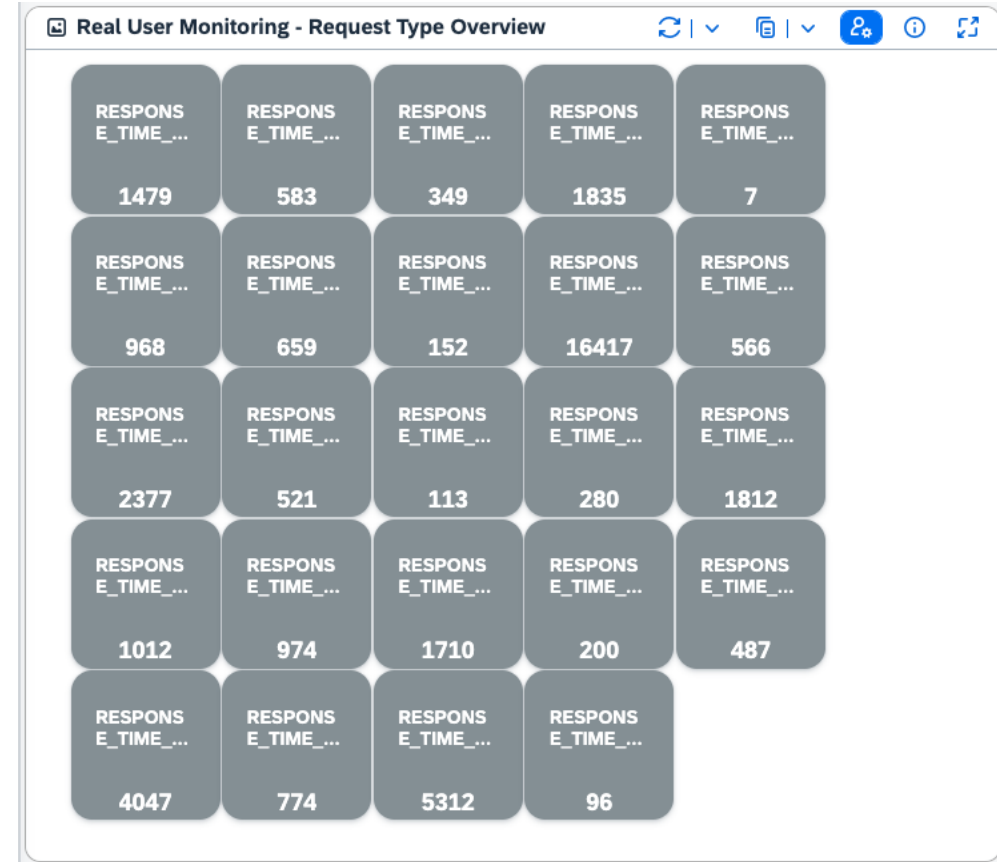
Rename Series with Regular Expressions (3/4)

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
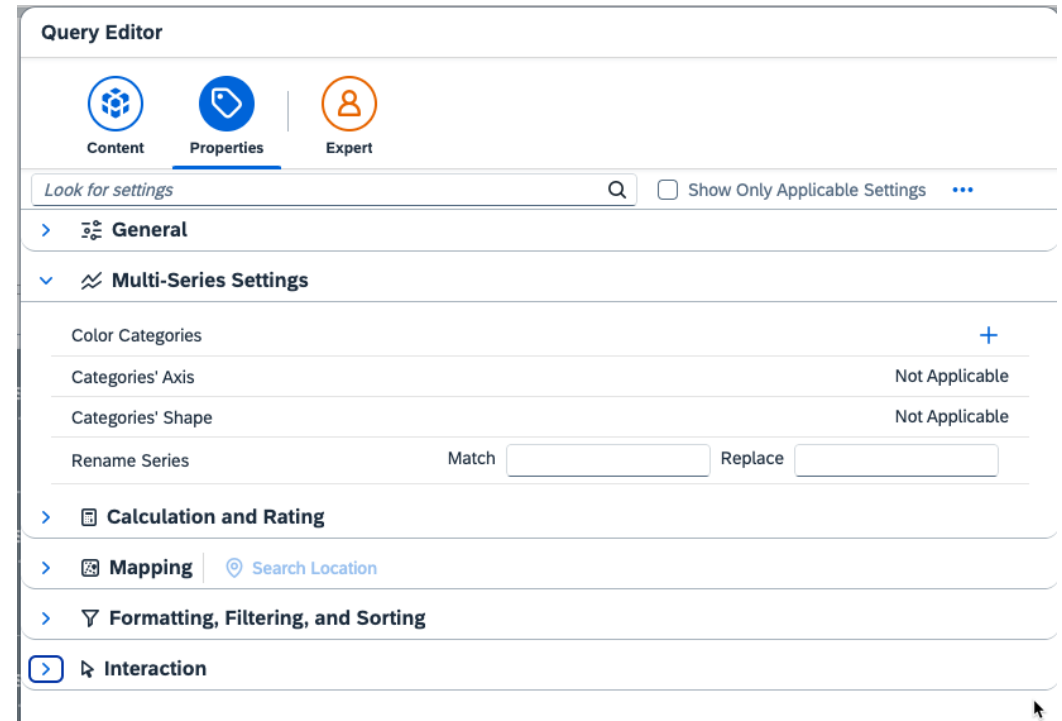
Rename Series with Regular Expressions (4/4)

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
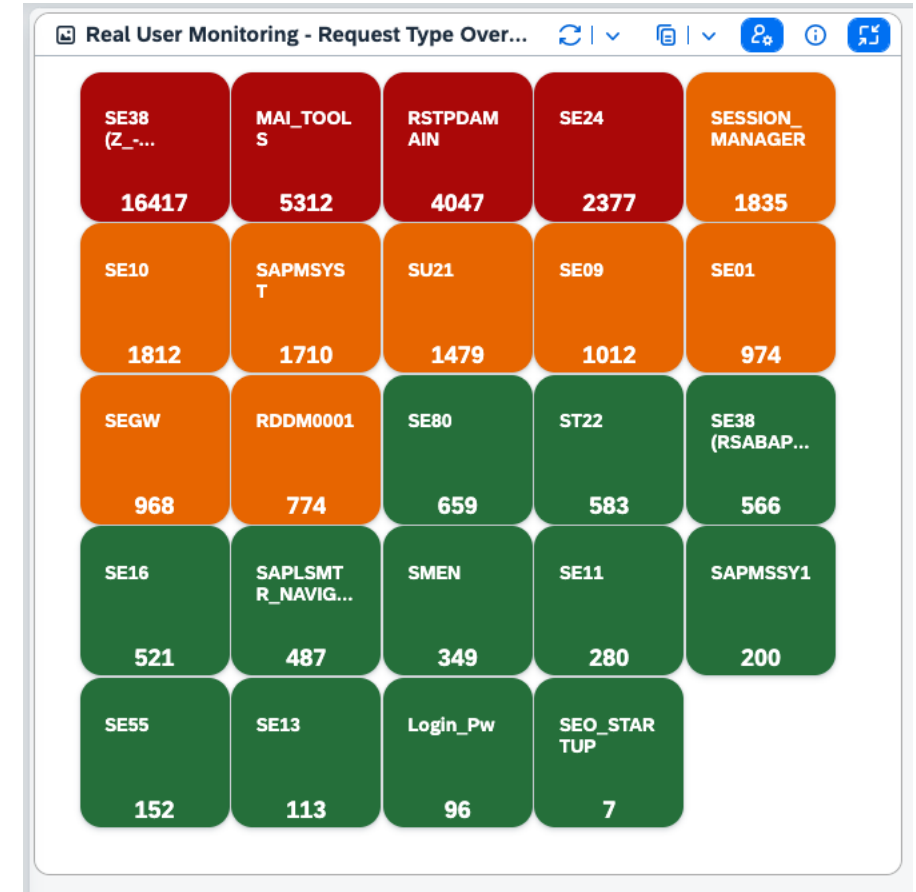
New Integration Monitoring Data Provider (1/3)

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
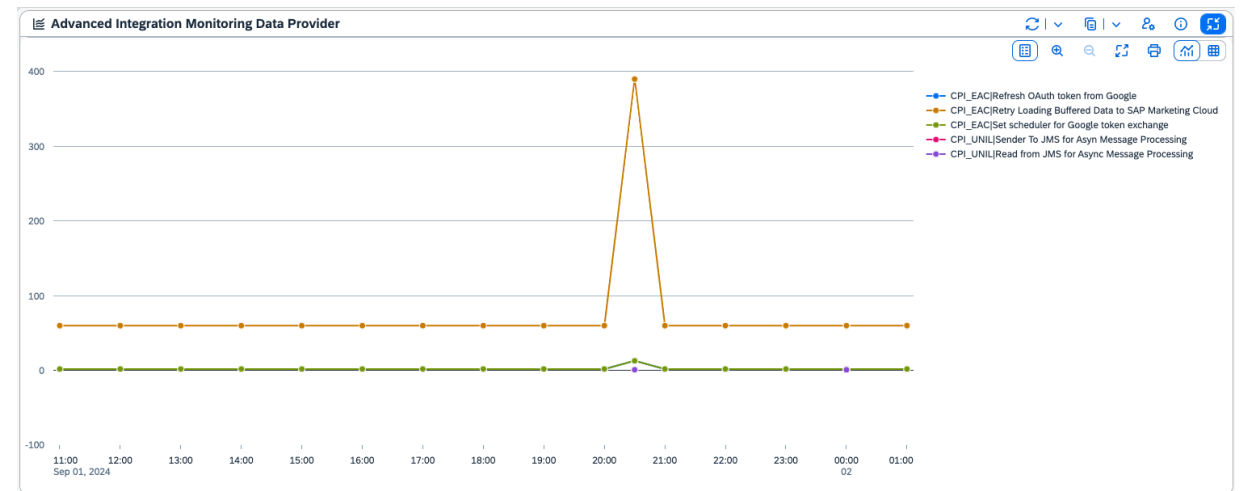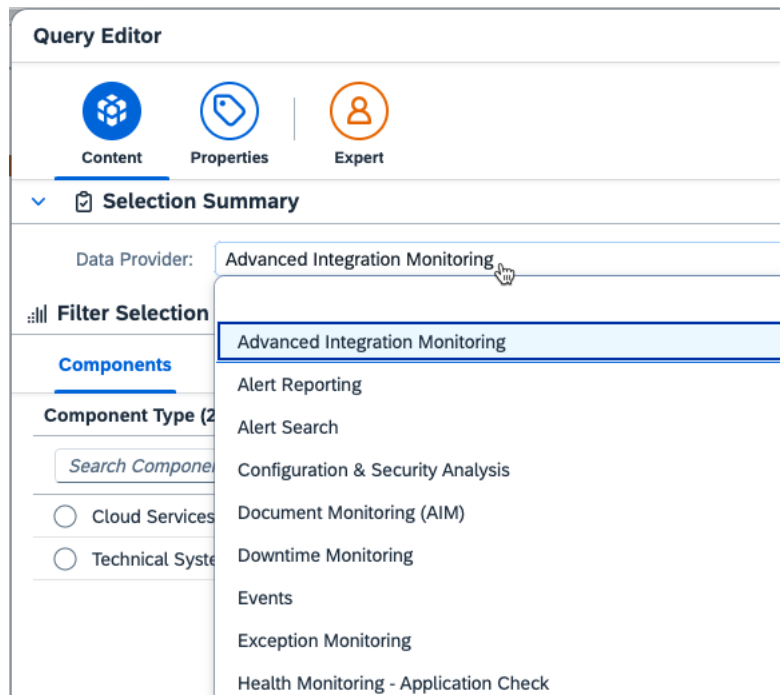
New Integration Monitoring Data Provider (2/3)

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

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

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)
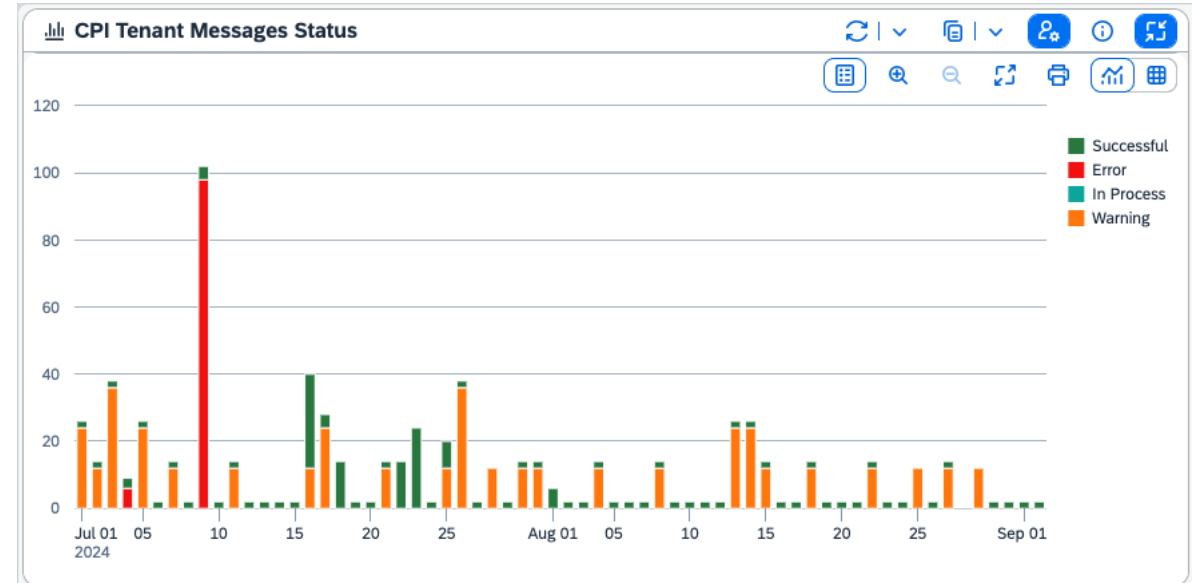
New Health Monitoring Services Data Provider (1/3)

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
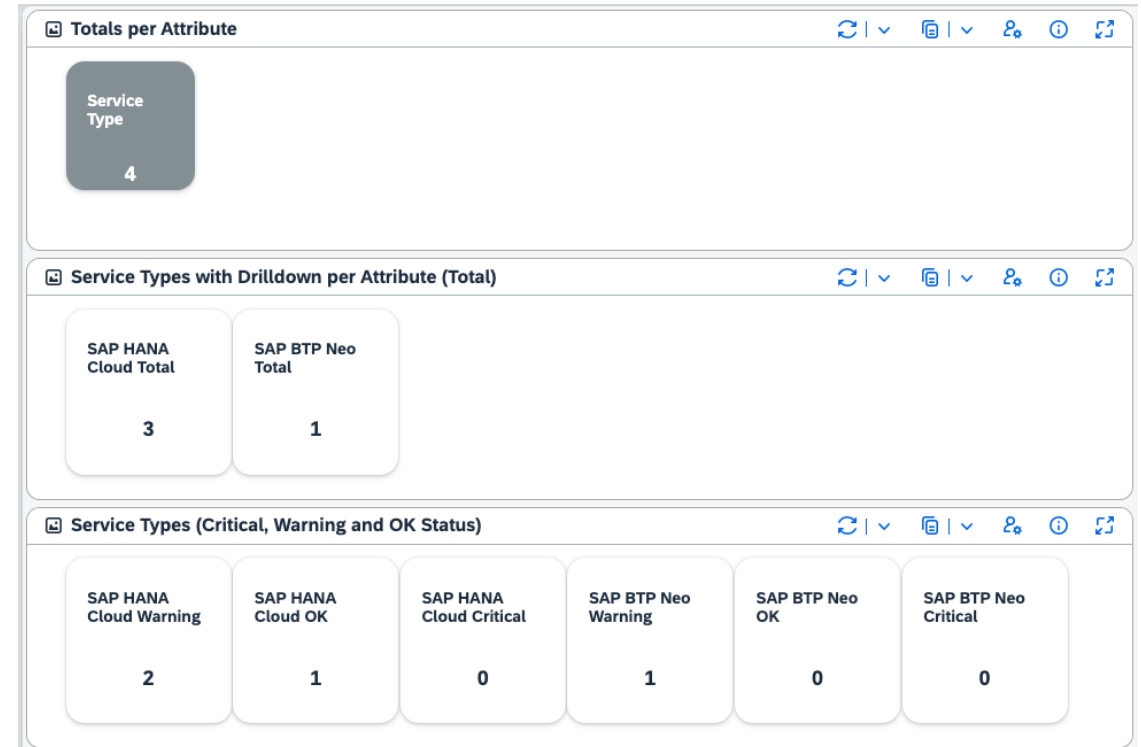
New Health Monitoring Services Data Provider (2/3)

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

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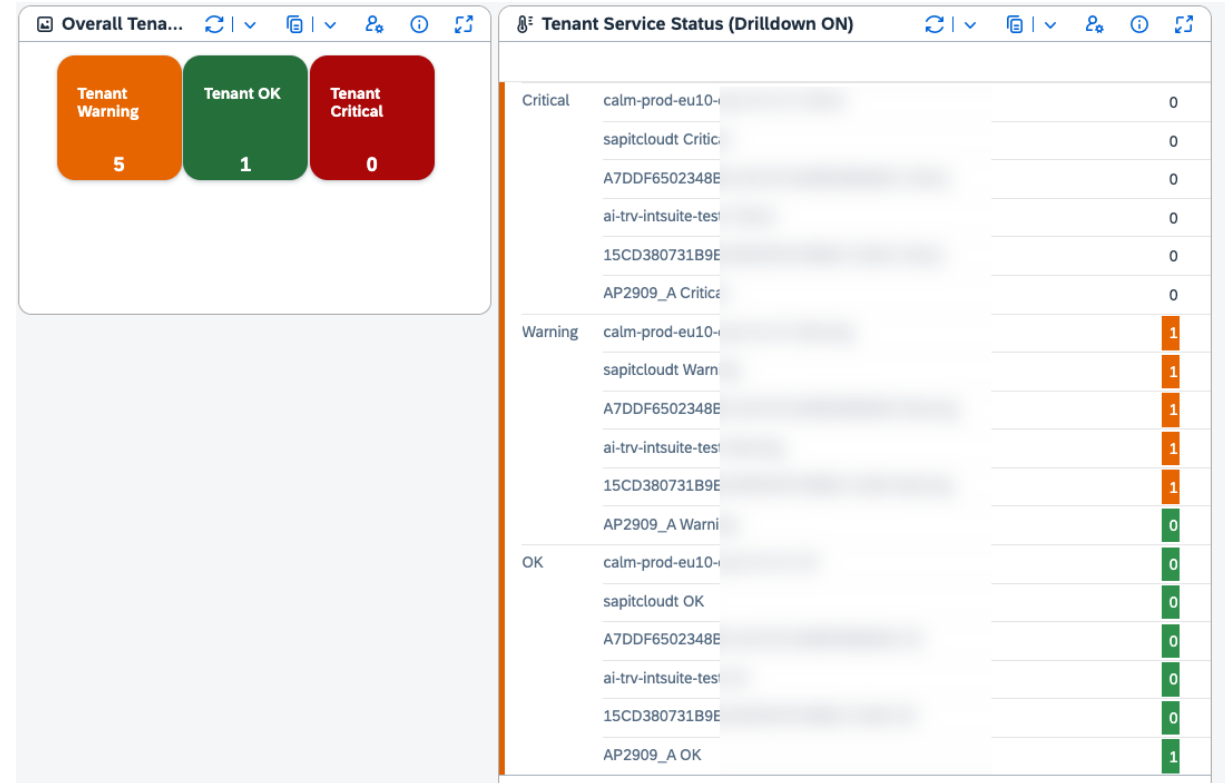
Job Group Support for Job Monitoring Data Provider (1/2)

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

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
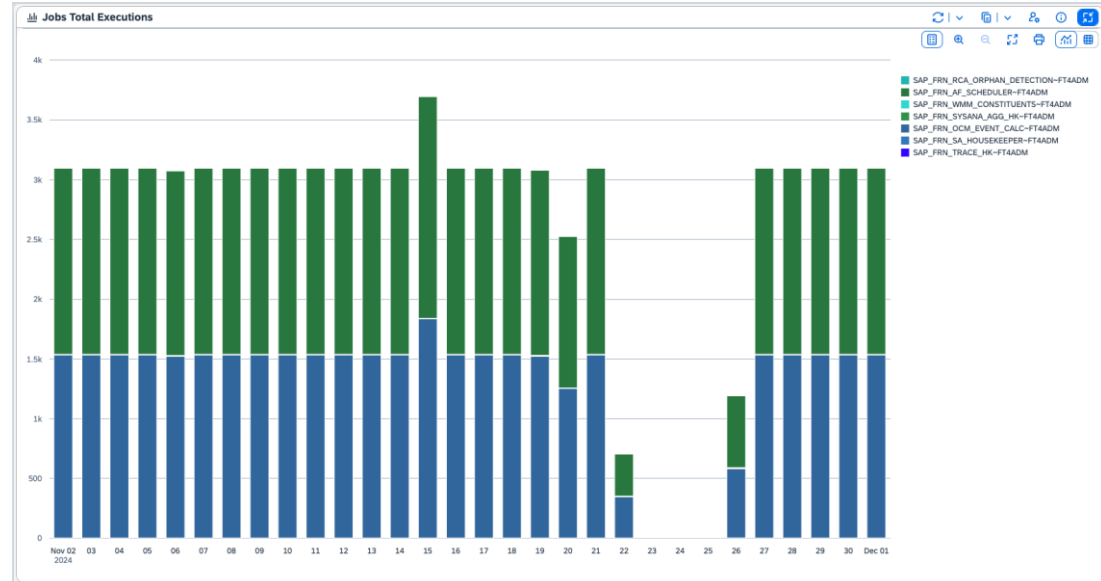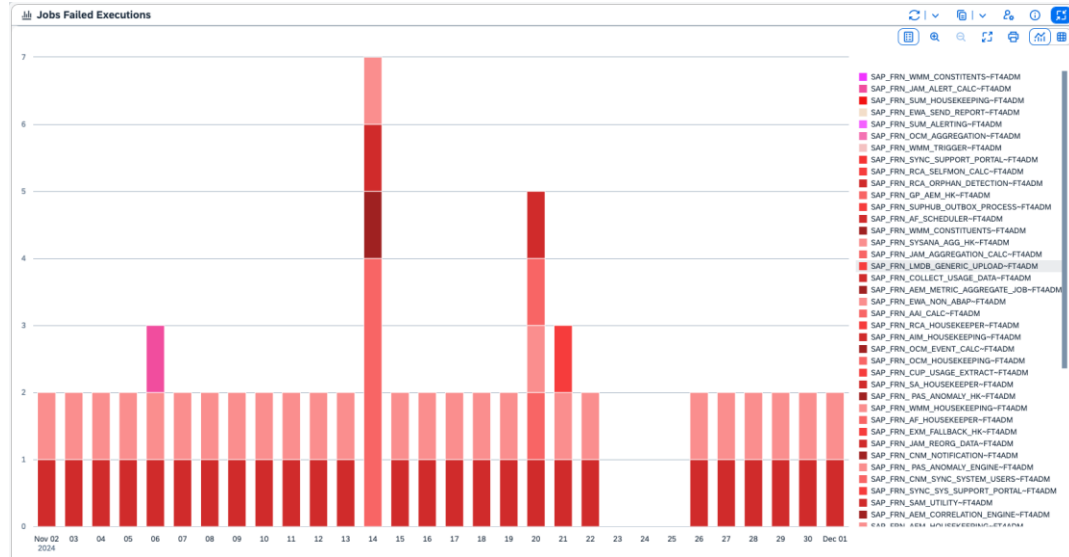
Root Cause Analysis
System Analysis

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

Root Cause 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 'Particially 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.

Configuration & Security Analysis

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/thtml

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

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,..

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.**
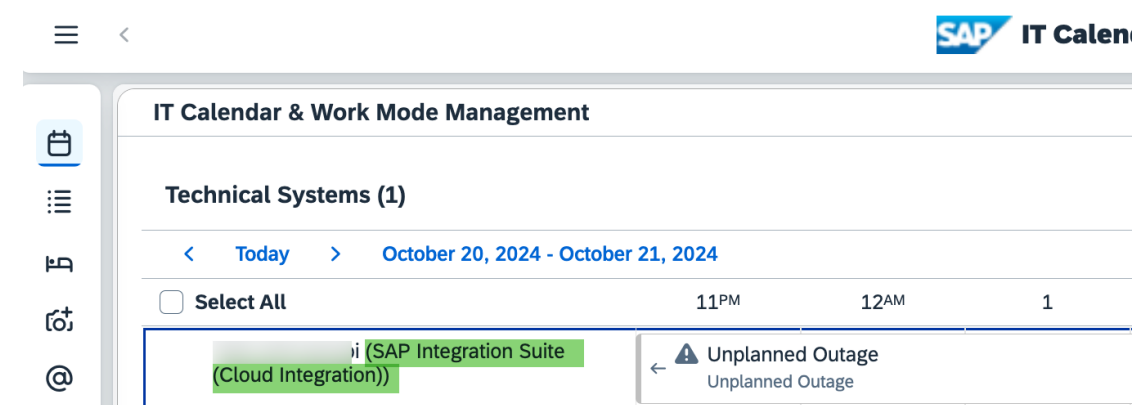
Infrastructure Administration

Landscape Management
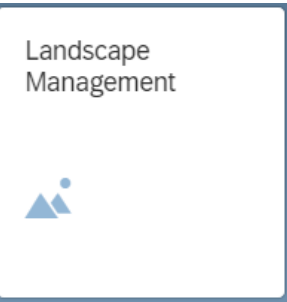
- **LMDB Tools is now Landscape Management:**
  - "LMDB Tools" and "LMDB Object Maintenance" are now united under the new tile "Landscape Management"
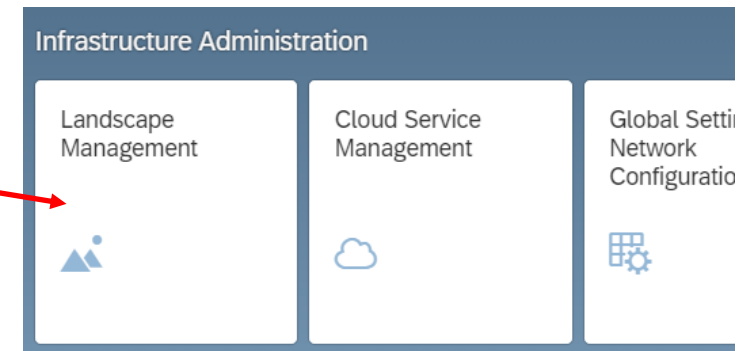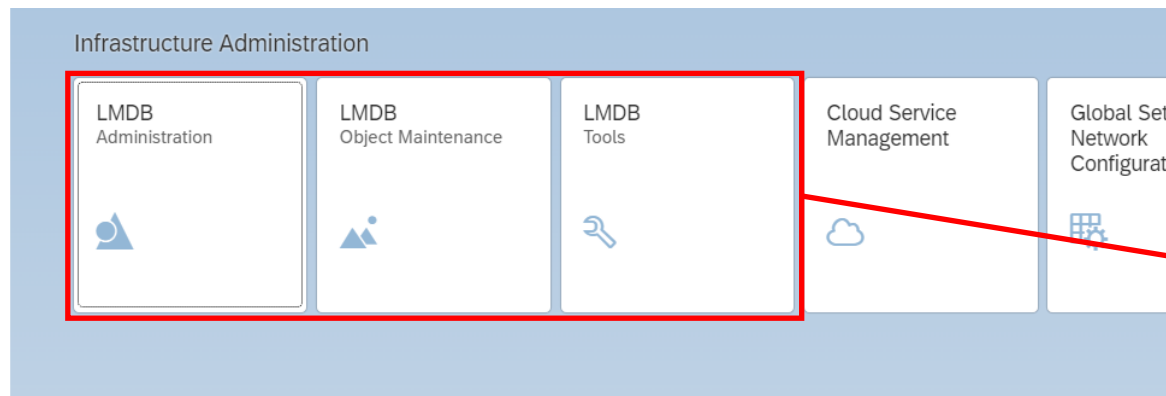
  - "LMDB Administration" can now be accessed via related links in Landscape Management
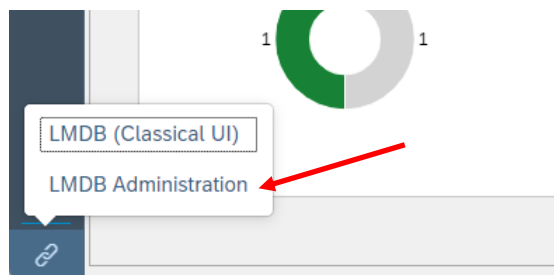
Landscape Management

- **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
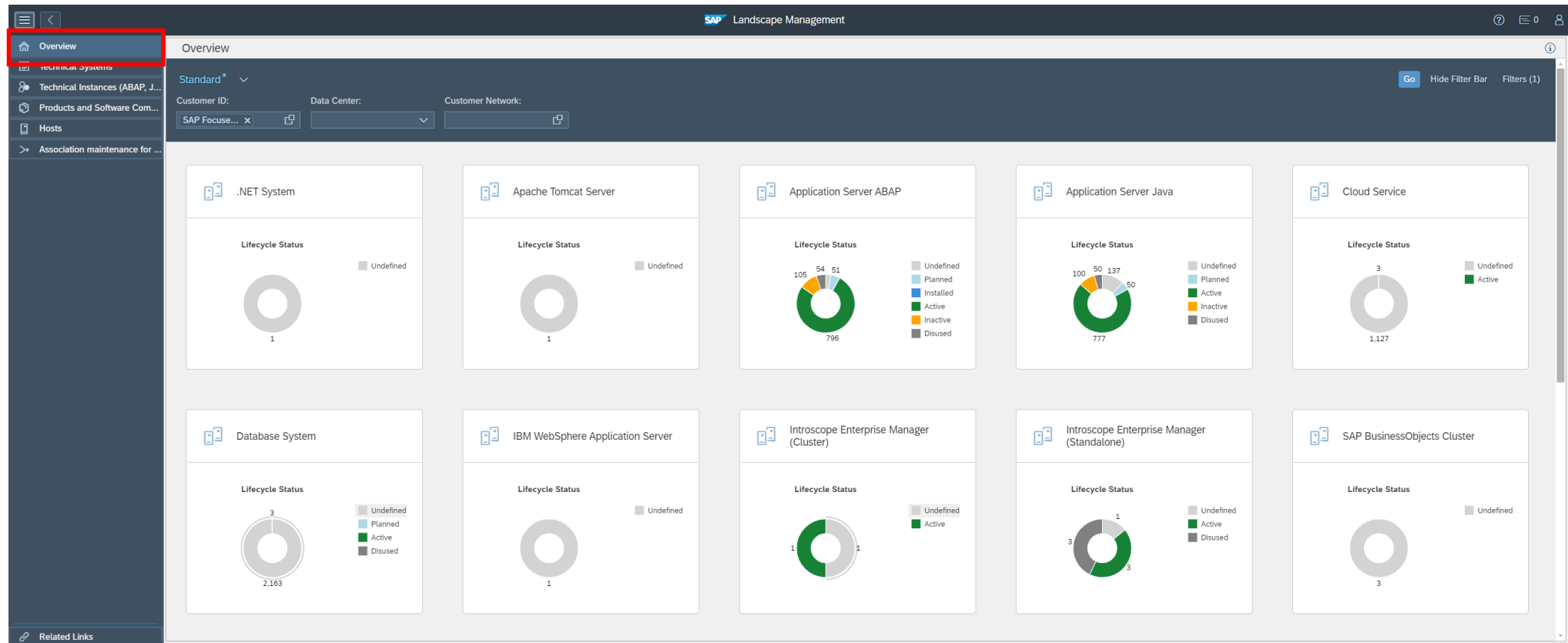
Landscape Management

- **Access to hierarchical view**
  - The system name link now leads to the hierarchical view

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

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)

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)](sap.com)

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

- **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 architectur	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

SAP Focused Run 4.0 Java 8 or Java 21, full platform support

SAP Focused Run 5.0 Java 21, limited platform support

Nov. 2022
FRUN 4.0 Release

May 2024
FRUN 4.0 FP03 release

Nov. 2024
FRUN 5.0

Nov. 2025
FRUN 4 End of maintenance
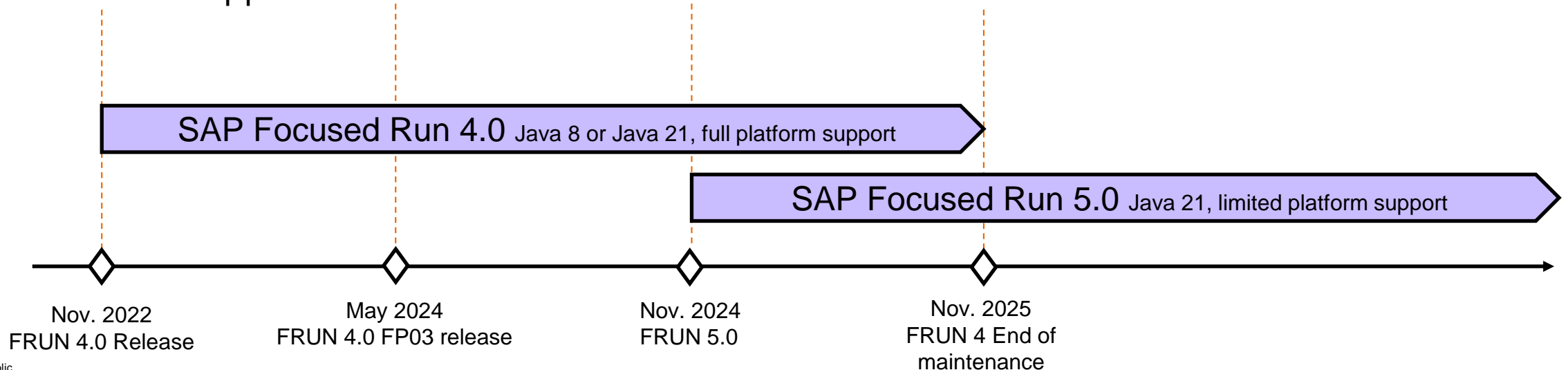
Simple Diagnostic Agent – Transition process

- 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 >= 7.22 PL64
  – Simple Diagnostics Agent >= 1.63.0
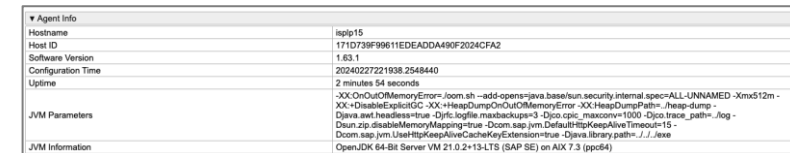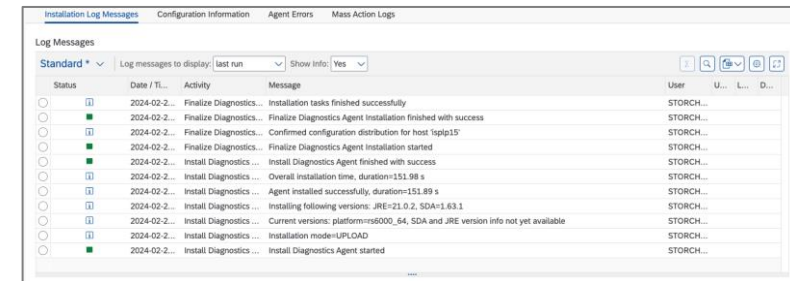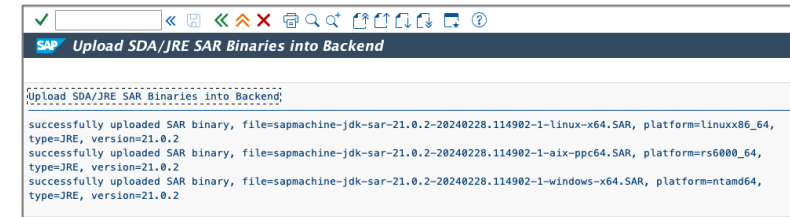
Cloud Service Management

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

- **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"*
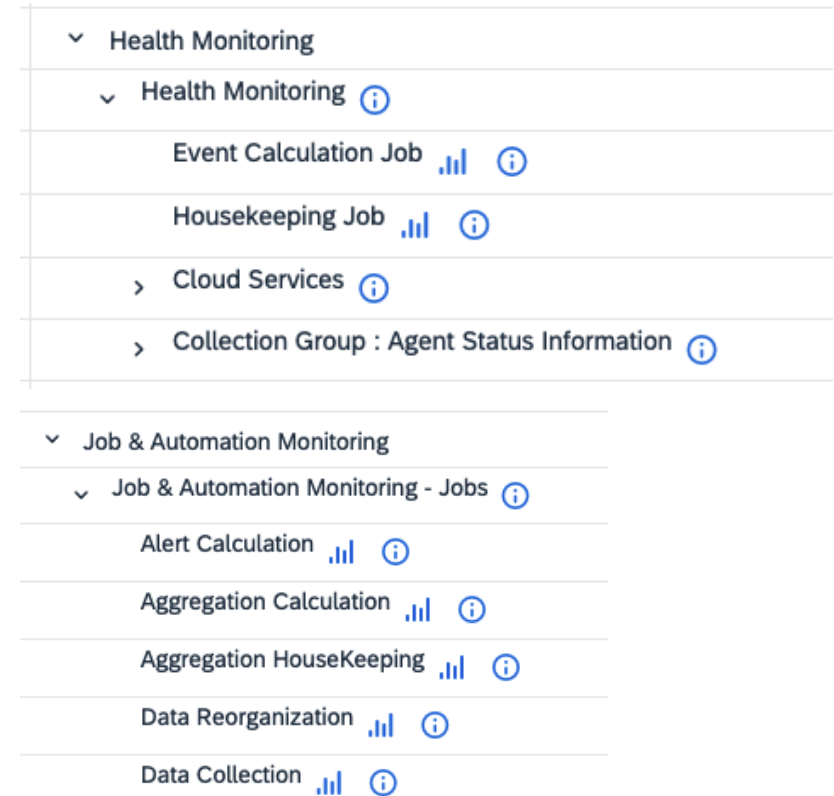
Self Monitoring 2/2

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

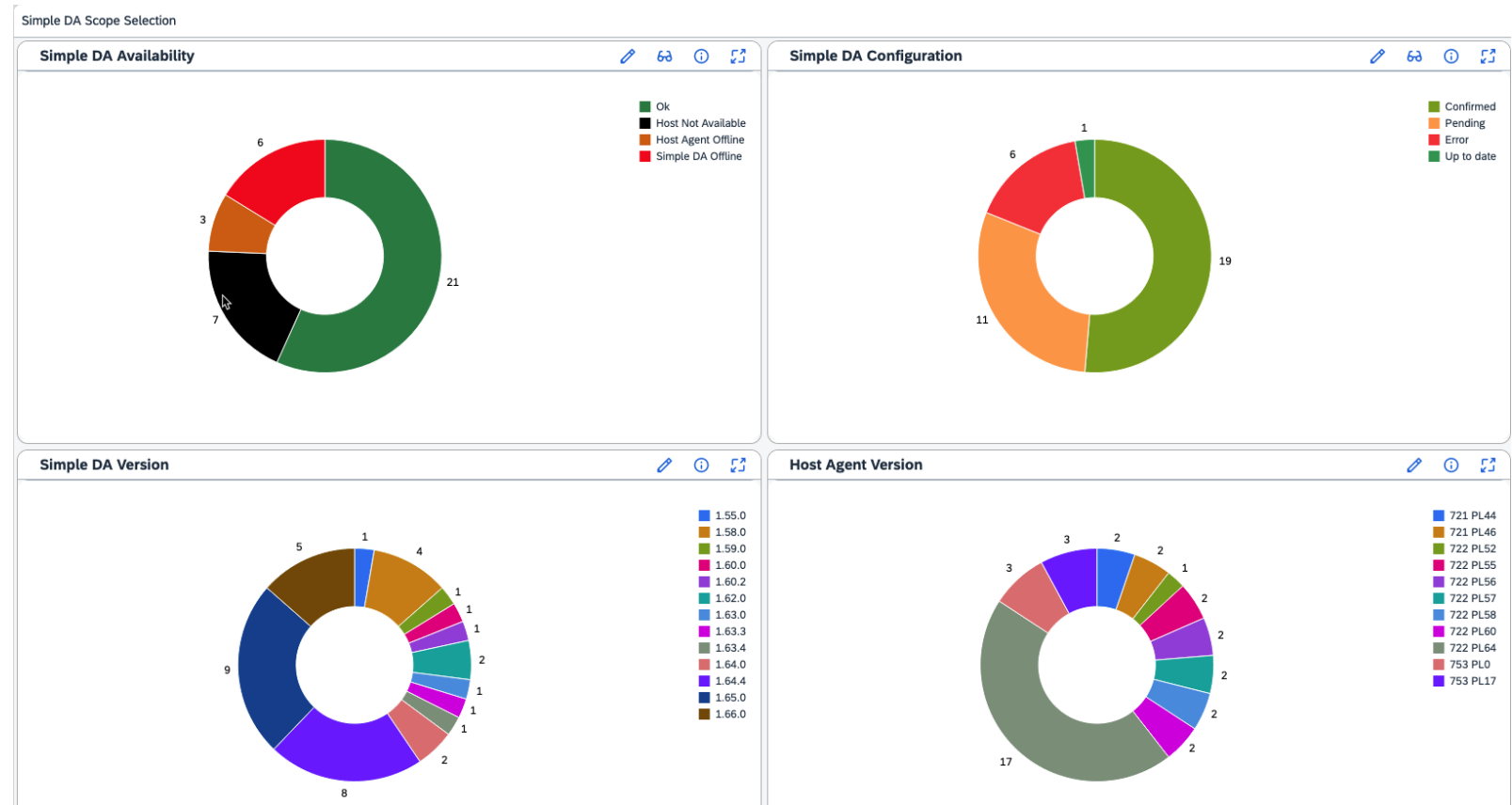Graphical overview for a single system including change capability in landscape management

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

SAP®