

# **Applications Operations in SAP BTP:**

**SAP Alert Notification Service for SAP BTP & SAP Automation Pilot** 

Biser Simeonov 05/2023



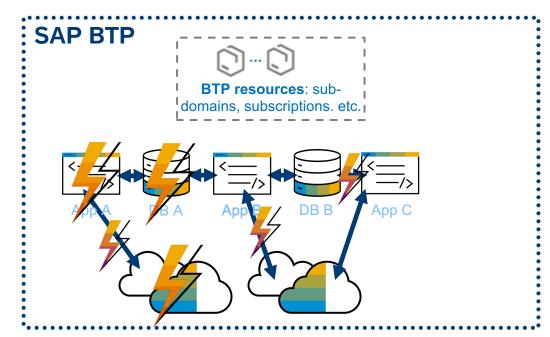
### Applications Operations: How we can help our customers?

You experience problems / repetitive requests:

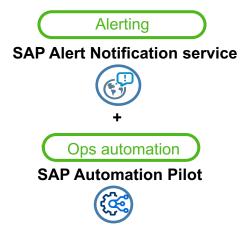
- Application crashes
- DB, Services, Network outages
- Provisioning of new resources, repetitve actions

You need DevOps / SRE team to:

- Keep the systems running
- Define recommended actions
- Automate the whole process, save time and efforts

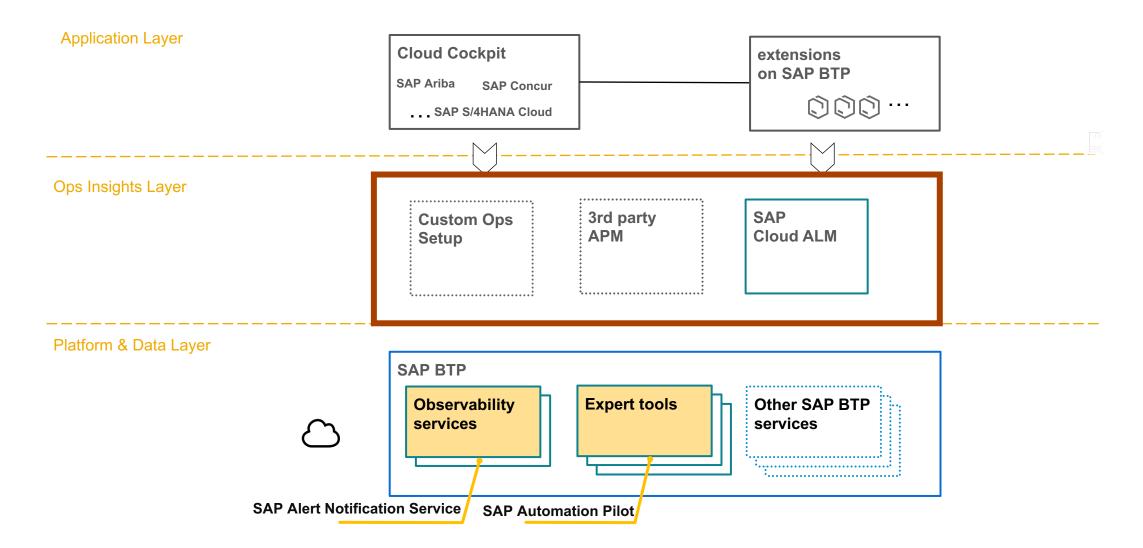








#### Observability and Supportability of SAP BTP: Different layers





**Alerting** 

**SAP Alert Notification service** 



Real-time alerting engine

Cloud service offering in SAP BTP for all of its flavors (public & private)

Filtering of the cloud events, so it sends only the events you are interested in

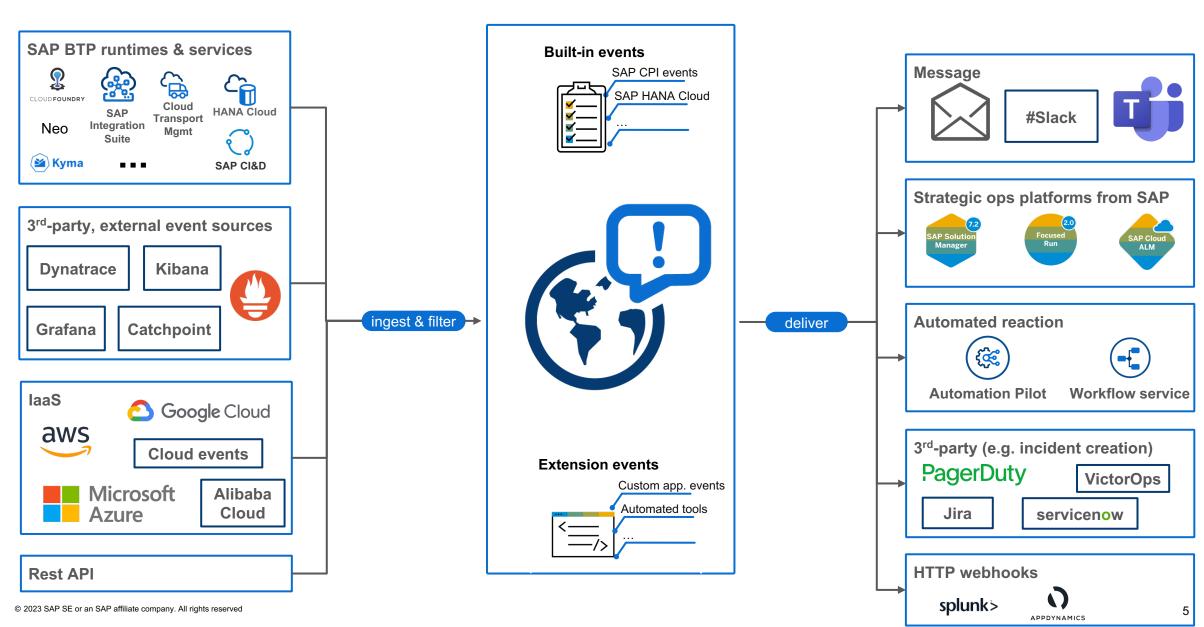
Offering a rich catalogue of predefined delivery channels

Collecting information from:

- SAP BTP services
- Hyperscalers
- Custom applications



### **SAP Alert Notification service for SAP BTP: Overview**



#### **Ops automation**

#### **SAP Automation Pilot**



Low-code/no-code automation engine

Allows to model + execute automated sequences

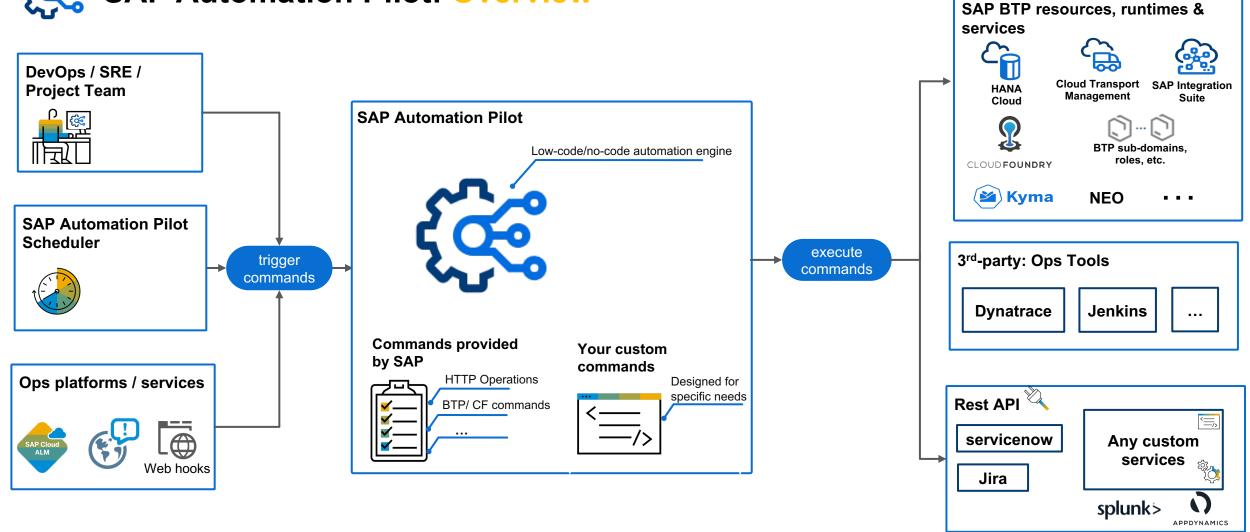
Execute scripts in serverless manner

Brings catalogs of provided automated commands/ sequences that can be used or built upon

Addressed used cases:

- Daily ops tasks
- Alert remediation
- Lifecycle management, hooks
- Scheduled maintenance
- Many more





#### **SAP Cloud services: Integration with Cloud ALM**

#### **SAP Alert Notification** Service

events from managed SAP BTP services + apps

> Landscape Information **Service**

information for cloud services registered at SAP

**Cloud Availability** Center

events (disruption, maintenance, etc.) from cloud services



**SAP Automation Pilot** 

Triggered by operation automation in SAP Cloud ALM

**Executes automation** tasks in SAP BTP

**SAP Cloud Transport Management Service** 

Triggered by change management in SAP Cloud ALM

Executes deployment of transport artefacts

**Cloud Integration Automation** Service

Triggered by solution documentation in SAP Cloud ALM

**Executes** implementation of integration

### **SAP Cloud services: Integration with Cloud ALM**

Alerting

Ops automation

Strategic Ops Platform

SAP Alert Notification service SAP Automation Pilot

**SAP Cloud ALM** 











#### **Documentation (hints)**

#### Integration with CALM

SAP Alert Notification Service

10

SAP Automation Pilot

### Possible use cases: Alerting & Ops Automation

**Alerting** 

**SAP Alert Notification service** 





**Ops automation** 

**SAP Automation Pilot** 

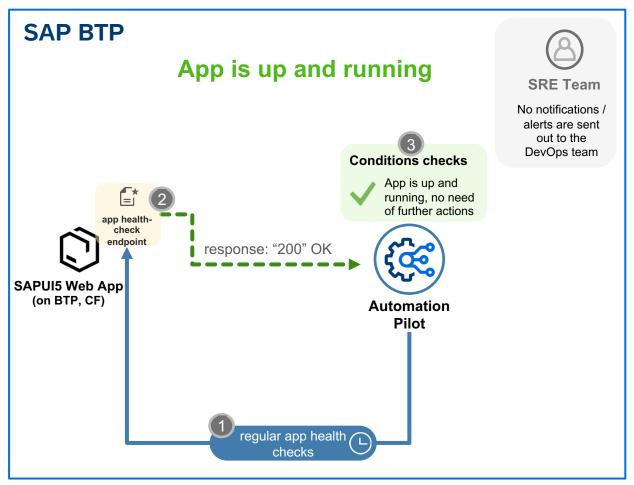


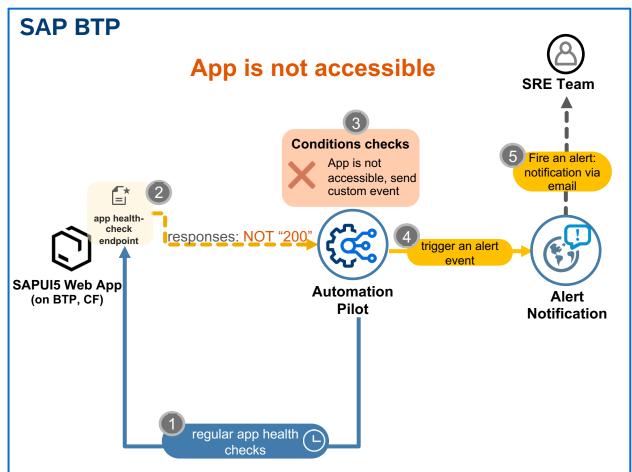
11



## **Use case: ANS and Automation Pilot integration** → **Cloud app**

#### health checks



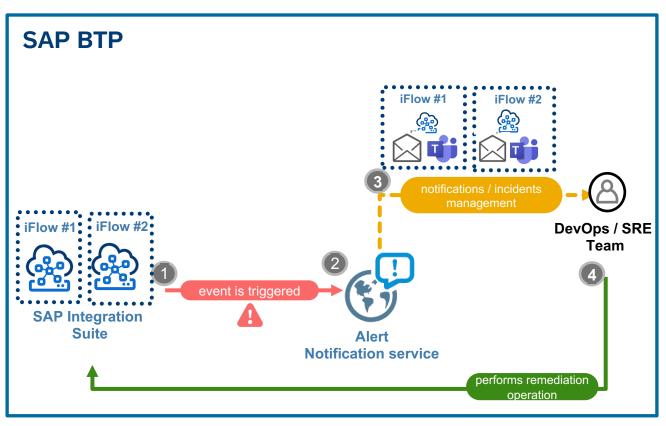


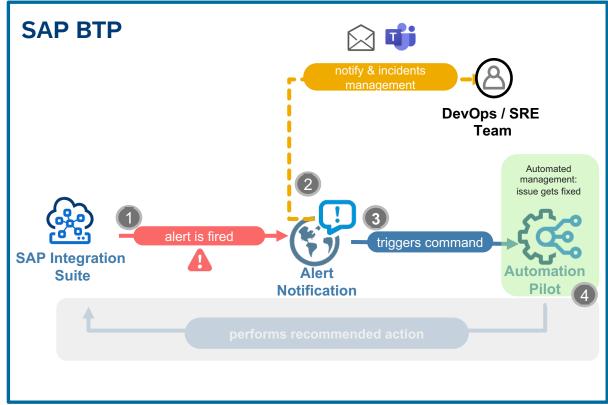


# Use cases: SAP CPI iFlows monitoring and remediations and alerts delivered to multiple MS Teams channels

**Use Case #1: Alerting and manual fixes** 

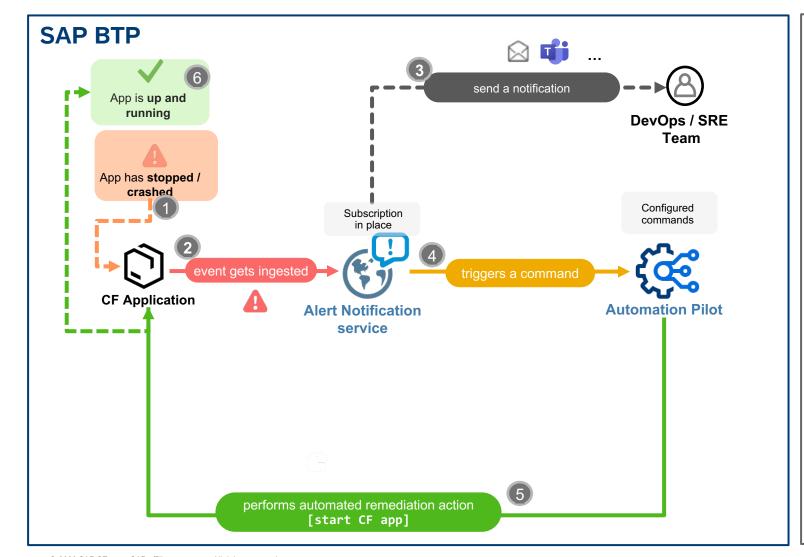
**Use Case #2: Alerting and automated remediations** 







## + Extra Use cases: Cloud Foundry App : Alerting and Remediation





### **CF** Application events

**Audit Application Stopped** 

14

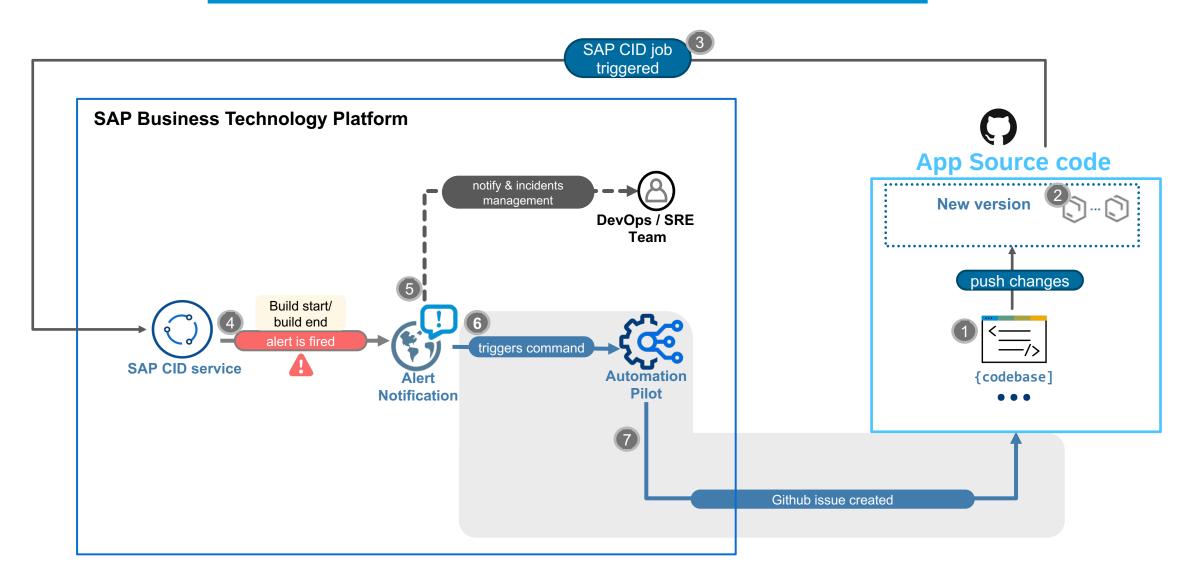
```
"id": "5360cb33-3b68-4bac-bc41-a5aeff3ccd3a",
"body": "Alert Notification has received an audit event, about a resource named demo-app.
"region": "cf-eu10",
"subject": "Application has been stopped",
"eventType": "audit.app.stop",
"regionType": "sap-cp",
"eventTimestamp": 1606738324,
"severity": "WARNING",
"category": "NOTIFICATION",
    "metadata.audit-event-guid": "ad2a2ea9-de21-4ed1-82f2-d06121293c86",
    "ans:eventScope": "CF_SPACE"
"resource": {
    "subAccount": "d5854483-5d4d-4a4e-9cf7-eaecb43f047f",
   "resourceName": "demo-app",
   "resourceType": "app",
    "globalAccount": "b757b0da-2a6e-4433-90c3-b3646d105de9",
    "resourceGroup": "c410488d-3fb9-42f7-af70-3d8b5d7d92ab",
    "resourceInstance": "0aeaa202-cde6-4c7a-ac13-0141ff17c07e",
        "globalAccountId": "b757b0da-2a6e-4433-90c3-b3646d105de9",
        "organizationId": "d5854483-5d4d-4a4e-9cf7-eaecb43f047f",
        "resourceId": "0aeaa202-cde6-4c7a-ac13-0141ff17c07e",
        "spaceId": "c410488d-3fb9-42f7-af70-3d8b5d7d92ab",
        "subAccountId": "e9ab6ded-969f-49e3-8d8a-2c90953e5db1"
```





## Use Case: Monitoring and alerting on SAP CI/D Job status -

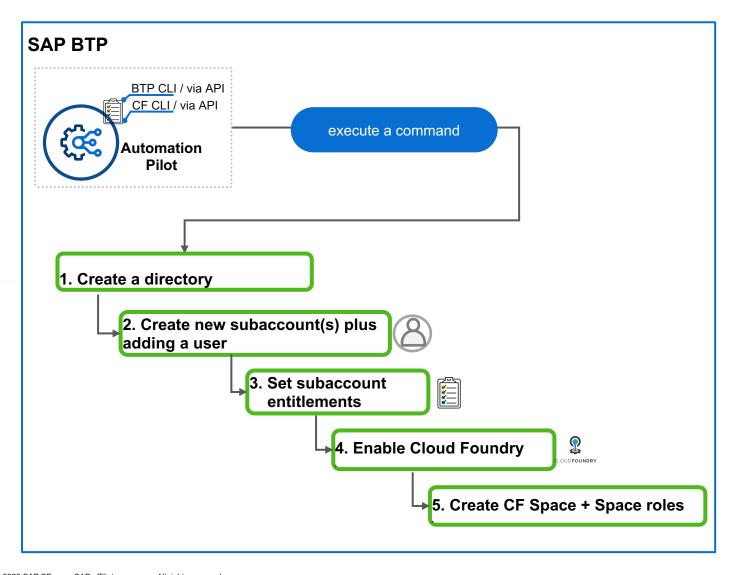
### **Build Notifications via Alert Notification service**



15



# **Use case: Managing SAP BTP resources automatically with Automation Pilot via Cloud Management**



# Quick overview on the use case provided commands

- [DONE] Create service instance service key from SAP Service Manager
- 2. [DONE] Subscription to SaaS app
  - A. Dependency on [1] + [2], to be solved by end-Feb 2023
- [DONE] Enable CF (note: to be executed you need to execute firs command #5)
  - A. Central plan creation
  - B. Local plan creation
- [DONE] BTP Subaccount role collections, users, assigning roles to users
- 5. [DONE] Create Org
- 6. [DONE] Set Org Roles + Users (CF)
- 7. [DONE] Create Space
- B. [DONE] Set Space Roles + Members (CF)

# **Demo time**

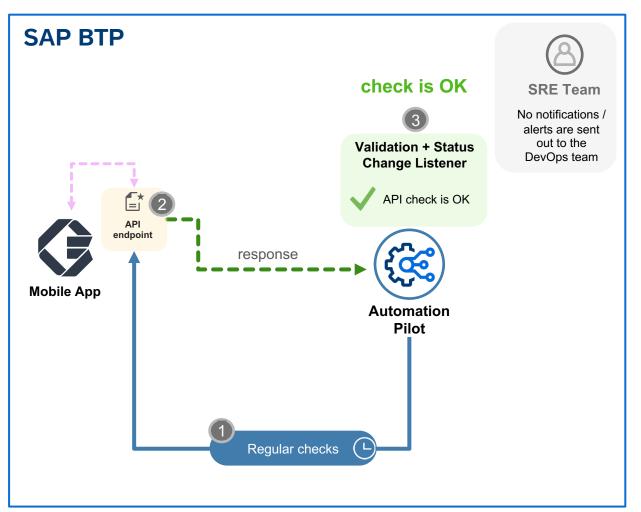


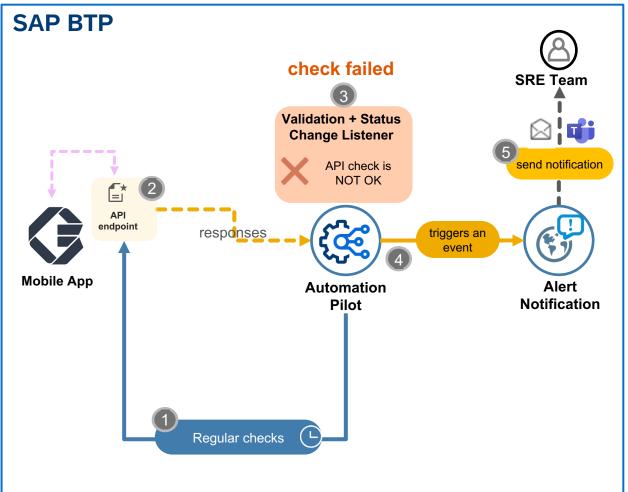






## + ( [Webinar #1] Synthetic monitoring – API check for your Mobile App







#### **SAP Alert Notification Service: Learning resources**



## SAP Discovery Center

Find details about:

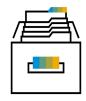
- Product main goal and use cases;
- Roadmap;
- Support details;
- Pricing



SAP Help Portal: Documentation

Documentation providing further details about product:

- Concept;
- Setup and usage;
- Administration;
- Integration with services / tools;
- FAQ



SAP Community:
Blog posts & videos

Review the blog posts and you can find insights about:

- Potential use cases;
- New features;
- How-to show cases and many more



#### openSAP Online course: Efficient DevOps with SAP

Join this free online course to learn about DevOps and how you can efficiently foster DevOps principles along the relevant phases of SAP development projects.

Note: SAP Automation Pilot content is covered in *Week* 5: Operation of Your Solution and Summary.



#### **SAP Automation Pilot: Learning resources**



## SAP Discovery Center

Find details about:

- Product main goal and use cases;
- Roadmap;
- Support details;
- Pricing



SAP Help Portal: Documentation

Documentation providing further details about product:

- Concept;
- Setup and usage;
- Administration and integration;
- Security;
- Monitoring and Troubleshooting



**SAP Community: Blog posts & videos** 

Review the SAP Automation Pilot blog-posts and you can find insights about:

- Potential use cases;
- New features;
- How-to show cases and many more



#### openSAP Online course: Efficient DevOps with SAP

Join this free online course to learn about DevOps and how you can efficiently foster DevOps principles along the relevant phases of SAP development projects.

Note: SAP Automation Pilot content is covered in *Week* 5: Operation of Your Solution and Summary.

# Thank you!

# Ask for a demo@

Biser Simeonov – Product Manager biser.simeonov@sap.com

Dimitar Donchev – Area Product Owner <a href="mailto:dimitar.donchev@sap.com">dimitar.donchev@sap.com</a>



#### Follow us









#### www.sap.com/contactsap

© 2023 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

The information contained herein may be changed without prior notice. Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platforms, directions, and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. 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, and they should not be relied upon in making purchasing decisions.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies.

See www.sap.com/trademark for additional trademark information and notices.

