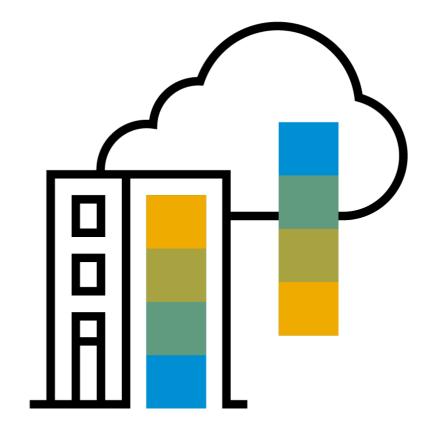
Get an Overview and Future Road Map of SAP BTP ABAP Environment

Florian Wahl, Product Management ABAP Platform, SAP SE ASUG Webinar Series January 27th 2022

PUBLIC





WHY SAP Business Technology Platform?

WHY ABAP in SAP Business Technology Platform?

SCENARIOS for SAP BTP ABAP Environment

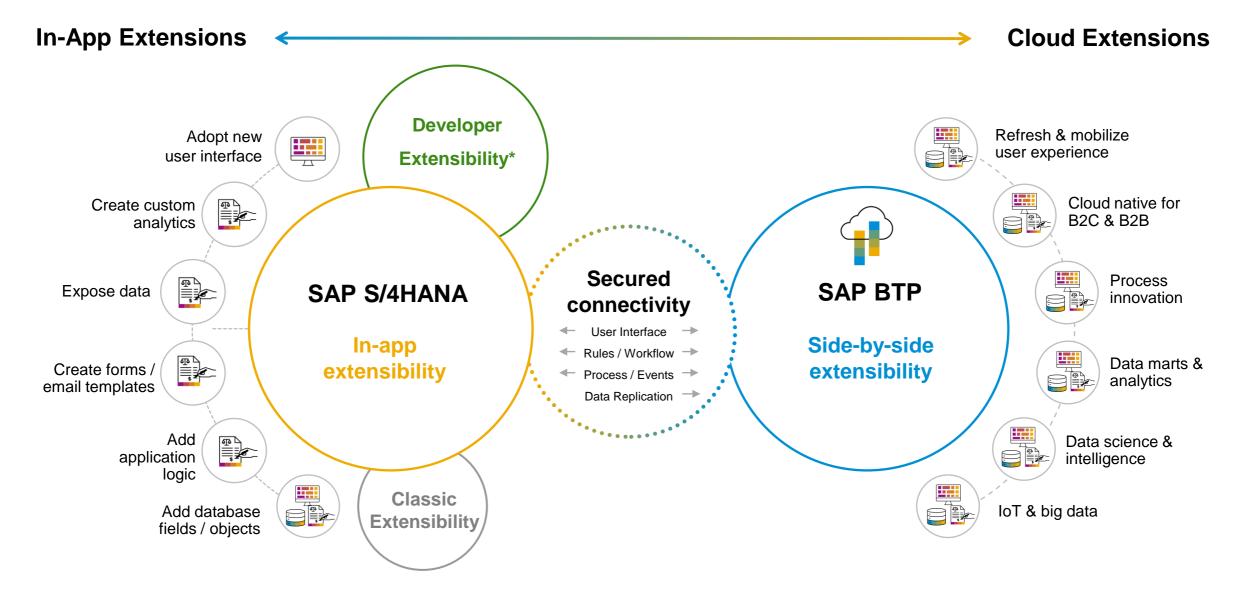
ROADMAP for SAP BTP ABAP Environment

OUTLOOK

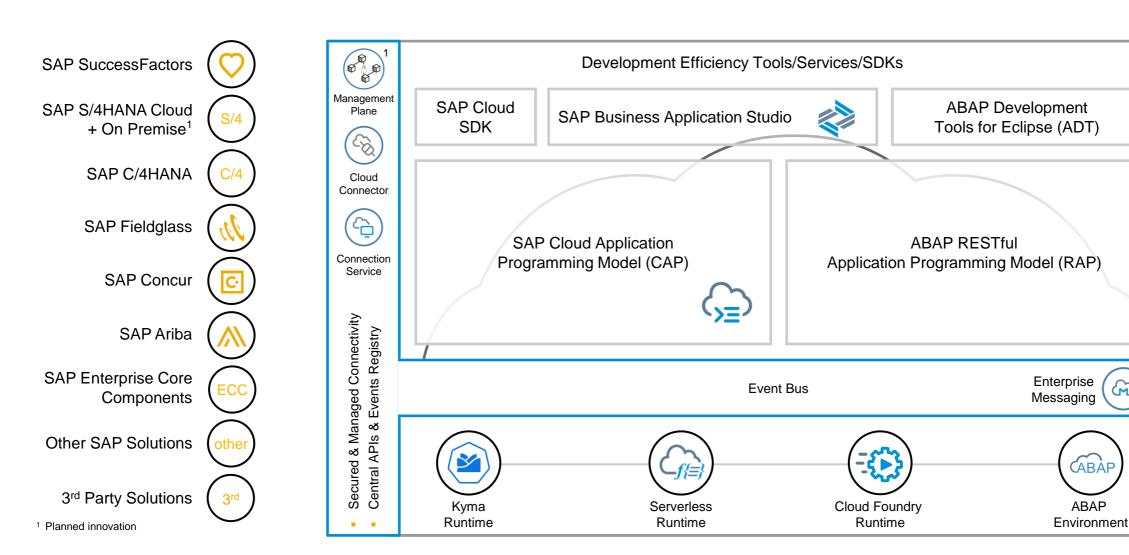
TABLE OF CONTENTS

Why SAP Business Technology Platform?

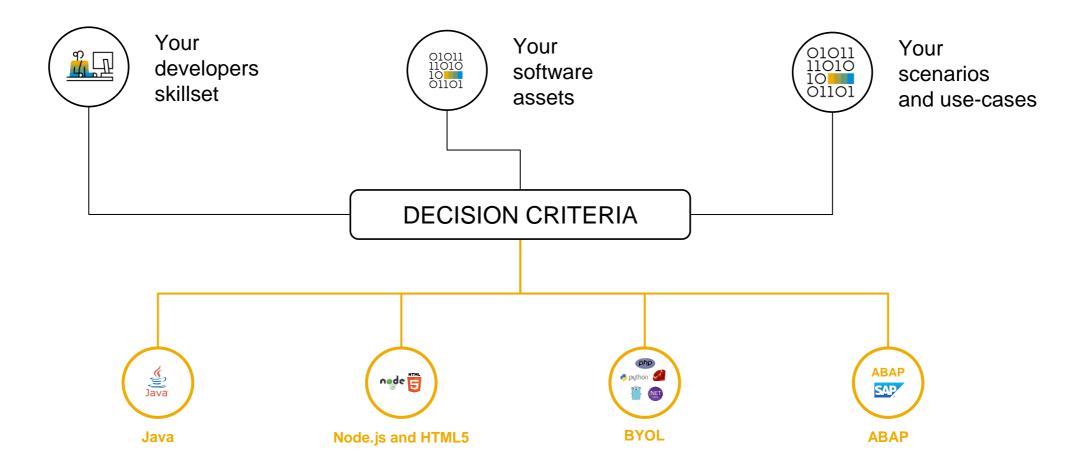
SAP S/4HANA extensibility



Building Extensions for the Intelligent Enterprise on SAP BTP



When to use what?



Why ABAP in SAP Business Technology Platform?

Value of SAP BTP ABAP Environment

- Cloud ERP Transform your existing ABAP assets to the cloud
- Innovation Platform Develop and run innovative ABAP apps on a PaaS in the Cloud
 - use always the newest version of the ABAP Platform
 - use always the newest version of SAP HANA
 - use always the newest SAP BTP services
 - Delegate the operation of the ABAP PaaS to SAP
- Clean CoreDecouple from your core business system
 - Delegate cloud integration scenarios to a cloud hub
 - Reduce upgrade costs with decoupled cloud extensions
 - Delegate non ERP user roles like consumer to a cloud solution





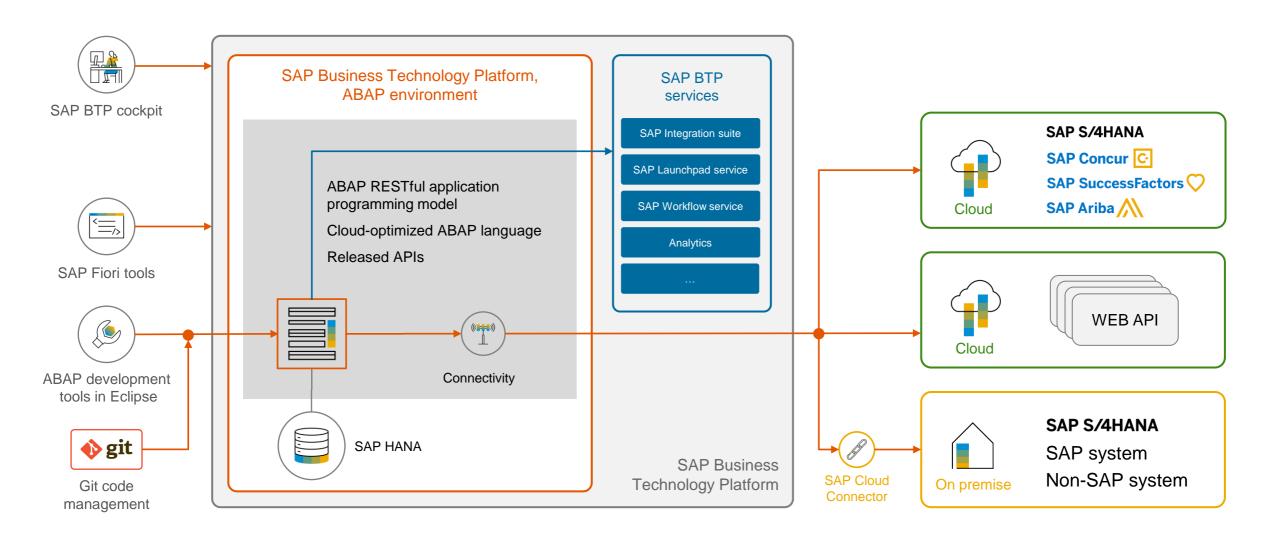


AGILE INNOVATION ON NEWEST TECHNOLOGY POWERED BY SAP HANA



DELEGATE INFRASTRUCTURE AND SYSTEM OPERATIONS

Vital parts of SAP Business Technology Platform (BTP), ABAP environment



ABAP RESTful Application Programming Model

SERVICE CONSUMPTION



BUSINESS SERVICES PROVISIONING

SAP Fiori UI Consume OData UI services Web API

Consume OData services exposed as API



SERVICE BINDING Bind the service to OData protocol



SERVICE DEFINITION Define scope to be exposed



DATA MODELING & BEHAVIOR

BUSINESS OBJECTS



Data modeling with CDS



Behavior definition



Behavior implementation

QUERIES

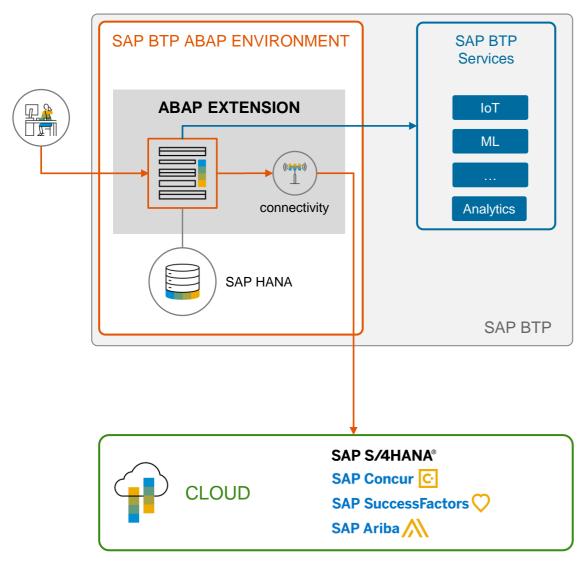


Data modeling with CDS

Scenarios for SAP BTP ABAP Environment

Extension scenario 1: Cloud ERP

Extend SAP S/4HANA Cloud or other SAP cloud offerings with cloud extensions

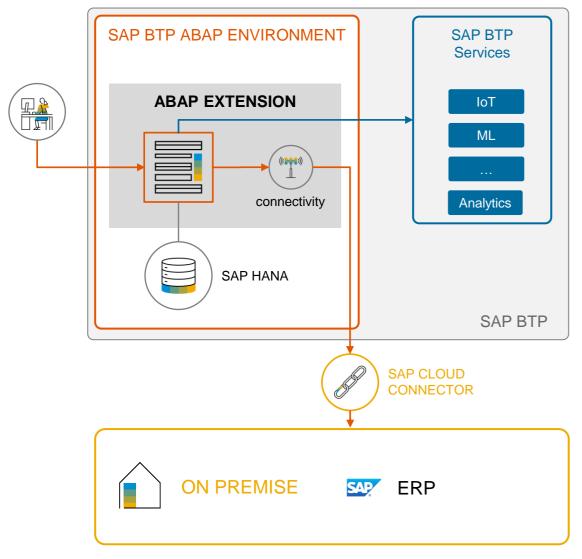


Use SAP BTP ABAP Environment to extend SAP S/4HANA Cloud or other SAP cloud solutions

- SAP Cloud solutions like SAP S/4HANA Cloud provide in-app extensibility to extend SAP apps and processes, but there is no support for classic custom ABAP development on top of SAP S/4HANA Cloud
- SAP BTP is the foundation to develop and run custom cloud extensions and the ABAP environment shall be used for ABAP based cloud extensions

Extension scenario 2: Innovation Platform

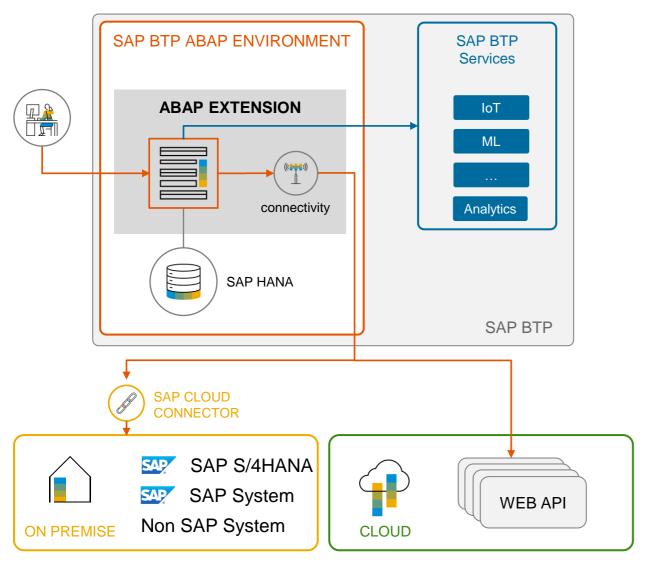
Develop and run innovative ABAP apps on a PaaS in the Cloud



- Benefit from the newest ABAP Platform and SAP HANA database technologies independent from your existing on-premise system landscape
- Build your Fiori apps with the new future proof ABAP RESTful Application Programming Model
- Utilize SAP BTP services like IoT, machine learning etc. in your cloud extension
- Delegate operation of the ABAP PaaS and new technologies to SAP

Extension scenario 3: Hub-like usage

Decouple ABAP implementations from your core business systems



- EXTERNAL USER GROUP
 Make your cloud app available to a broader audience that does not have access to your core business systems (e.g. consumer apps)
- INTEGRATION HUB Integrate in your cloud extension multiple cloud/on-premise systems with SAP/non-SAP cloud services
- DATA INTEGRATION
 Collect data from multiple sources in your cloud extension for further processing and analysis
- DECOUPLED EXTENSION Cloud extensions use only well defined (remote) APIs of the Business system. This reduces the risk and effort for business system upgrades.

Transformation approach for existing extensions and custom code



- Decouple extensions and custom code from application layer
- Provide end-user UIs as SAP Fiori UIs
- Use only released SAP objects
- Use only ABAP language scope for cloud

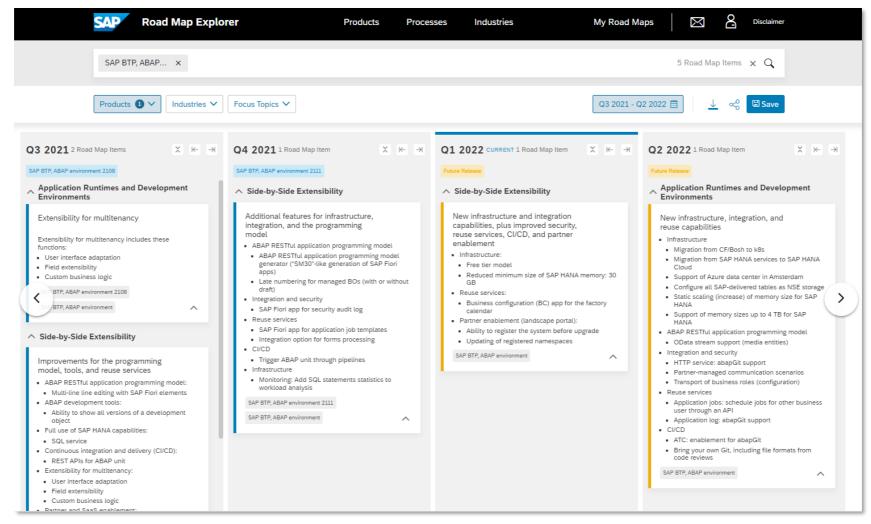


Tool Support

- Starting on-premise to check readiness for SAP BTP ABAP Environment:
 - ABAP Test Cockpit (ATC) check variant
 - Custom Code Migration app (SAP S/4HANA or ABAP environment only)
- Continuing in SAP BTP ABAP Environment: Quick fixes for certain code replacements in ABAP Development Tools in Eclipse (ADT)

Roadmap for SAP BTP ABAP Environment

Roadmap





Learn more

ABAP Environment in SAP Discovery Center

SAP Roadmap Explorer

Trial Announcement

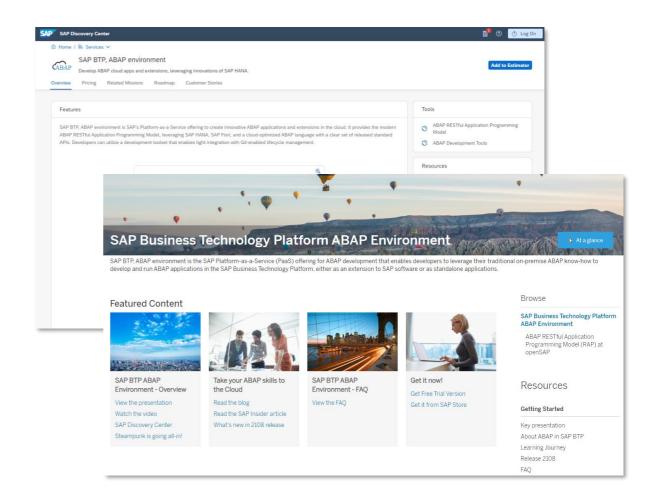
Product Expert Page

Learning Journey

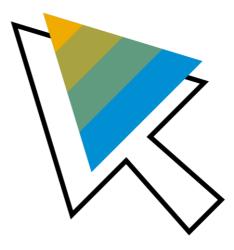
Getting Started Tutorials

Technical Product Documentation

Release Notes

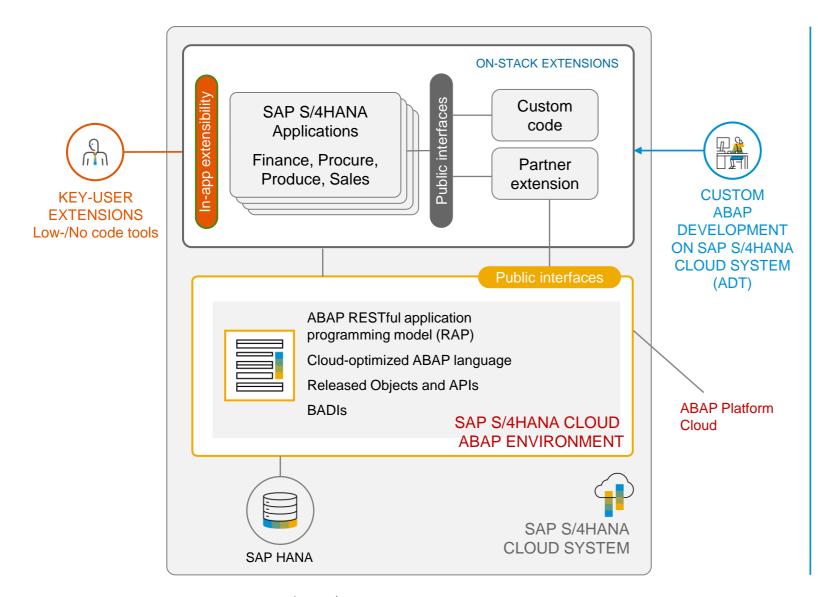


Live Demo



Outlook

Introduction of SAP S/4HANA Cloud ABAP Environment*



ENABLE CUSTOM ABAP DEVELOPMENT DIRECTLY ON SAP S/4HANA CLOUD STACK

MODERN ABAP DEVELOPMENT

SAP, customers and partners use the same development model

High developer productivity

ABAP RESTful application programming model

- Development of SAP HANA-optimized apps and services
- Eclipse-based ABAP development tools

SAP Fiori tools for UI Development
Proven Lifecycle Management

RULES OF THE GAME

- Clear separation between SAP solutions and extensions
- Only stable and reliable public interfaces and released objects from both ABAP platform and SAP S/4HANA Cloud applications can be used
- No modifications

*on roadmap

.js,) development

of SAP S/4HANA Cloud

		Custom development integrated in SAP S/4HANA Cloud		Custom development on SAP Business Technology Platform
		Key User Extensibility	Developer Extensibility*	Side-by-Side Extension
	Scenario	Smaller low-/no-code extensions of SAP solutions	Tightly coupled more complex extensions and apps	Loosely coupled extensions and apps
	Target environment	Fully integrated in SAP S/4HANA Cloud stack		SAP Business Technology Platform
	Use cases	UI field layout, custom forms and templates Custom analytics via CDS views Custom Business Objects Custom business logic using Cloud BADIs	ABAP based custom app development extensions of SAP S/4HANA Cloud solutions partner extensions	Custom or multitenant applications ABAP and non-ABAP (Java, Node.js,) develop SaaS solutions developed by partners Apps for separate target groups
	Persona	Key user	ABAP developer	Developer
	Benefits	Fully managed and integrated in SAP S/4HANA Cloud No or only very basic development skills required	Development of extensions inside the SAP S/4HANA Cloud system No remote access and data replication Use and extend released SAP S/4HANA Cloud objects	Decoupled extensions independent of SAP S/4 operation and lifecycle management Direct consumption of SAP BTP services

Thank you.

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