SAP Garage

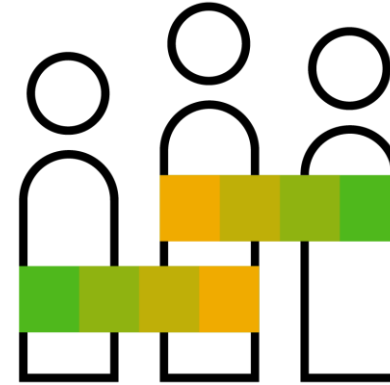## Extend Business Processes on SAP Business Technology Platform

Sangeetha Jayakumar and Wolfgang Scheer
SAP SE

PUBLIC

THE BEST RUN SAP

Customer Motivation for a Side-by-Side Extension

- **Integration of multiple backends**

- **Different user base as on-premise**
  - ○ B2C, B2B
  - ○ Reusage of applications for subsidiaries or multiple backends

- **Integration of other cloud services**
  - ○ IoT, Analytics, Machine Learning, Mobile …

- **Temporary decoupling of processes from backend**
  - ○ Event-driven Architecture
  - ○ Better performance and user experience

- **Improve user experience**
  - ○ UI, mobile

- **Central Portal**

- **Faster Lifecycle**
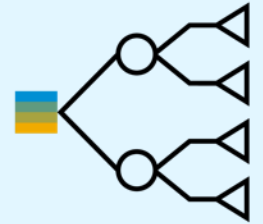
SAP NetWeaver® Event Enablement Add-on
Benefits of Event-Driven Architectures

Event-Driven Architectures

- **Distributed asynchronous architecture pattern** used to produce highly scalable applications.

- Made up of **highly decoupled, single-purpose event processing components** that asynchronously receive and process events.

- A key element of event notification is that the source system doesn't really care much about the response.
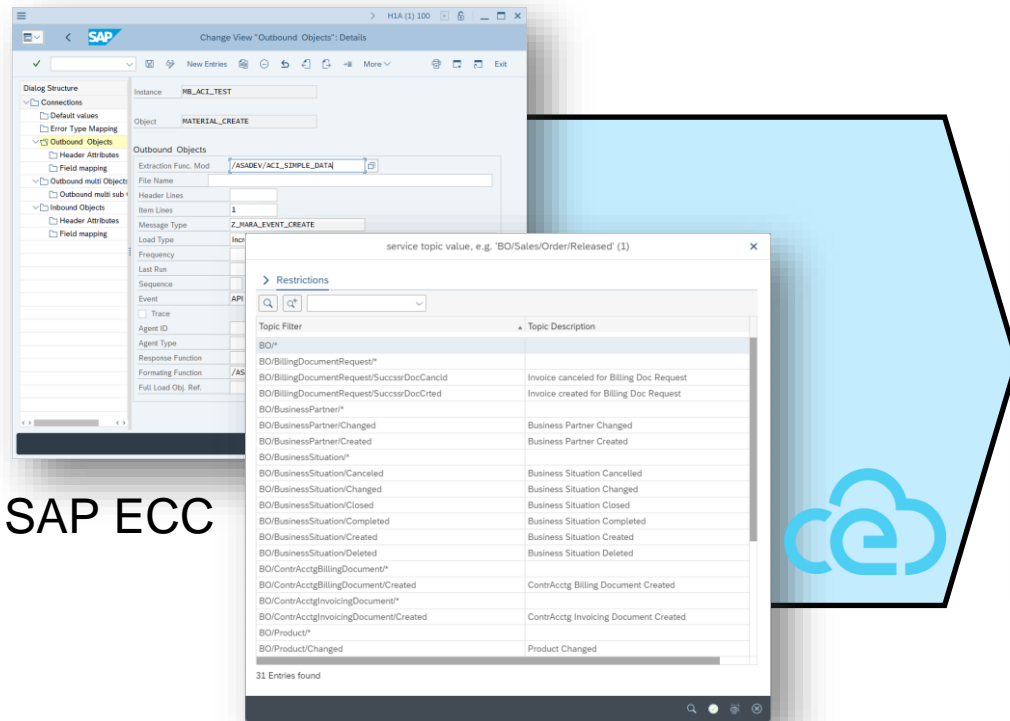
Benefits

- Decouples communication

- Removes idle downtimes

- Enables responsive applications that react to events in other systems/applications

- Permits events to trigger functions (as a service) in response to execute defined business logic

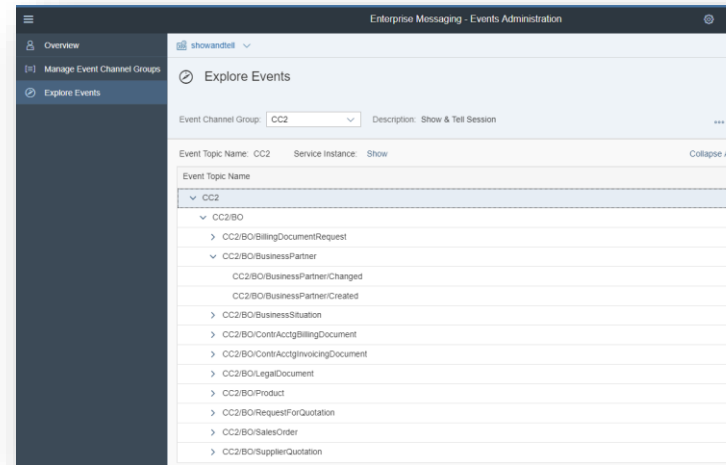- Facilitates pay-per-use consumption costs by removing "always on"

Migration Path to SAP S/4HANA with Event Management

Aligned and open Events Format (http://cloudevents.io) between SAP S/4HANA and SAP ECC allows to use the using SAP Business Technology Platform as the extension platform, also as a preparation for a move to S/4HANA

SAP ECC

SAP S/4HANA

SAP Business Technology Platform

SAP NetWeaver® Event Enablement Add-on– **Feature Highlights**

Connect applications, services, systems

Connect applications, services, and systems seamlessly across different landscapes using asynchronous communication.

- ✓ Initial Data Loads with OData
- ✓ Incremental Data Loads
- ✓ Cross-system aggregation

Communicate reliably and scalable

Reliably send and receive messages through applications, services, and systems using standard messaging protocols.

- ✓ End-to-End Monitoring
- ✓ Message re-processing
- ✓ Secure communication

Event-driven extensions for SAP systems

Build applications and extensions that can react to events from your SAP system, out-of-the-box.
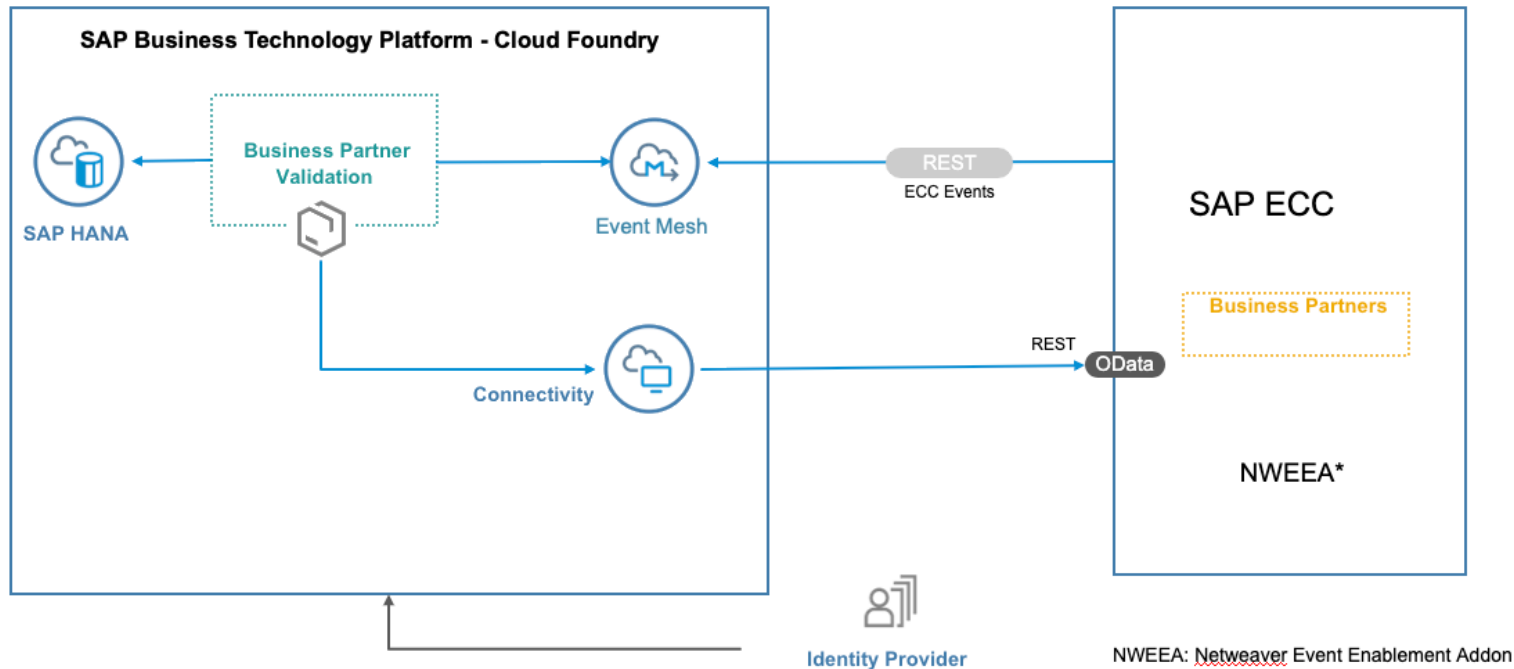
- ✓ Unlimited extensibility of events
- ✓ Easy to add to flexible framework
- ✓ Utilization of ALE change pointer

High throughput of messages, low latency

The messaging infrastructure decouples communication to scale and handle unexpected peaks in data traffic.

- ✓ Configurable frequency
- ✓ Configurable package sizes
- ✓ Parallel processing

Mission: Extend SAP ERP 6.0 (ECC) business processes on SAP BTP

SAP Business Technology Platform - Cloud Foundry

SAP HANA

Business Partner Validation

Event Mesh

Connectivity

REST
ECC Events

REST

OData

SAP ECC

Business Partners

NWEEA*

Identity Provider

NWEEA: Netweaver Event Enablement Addon

Business Scenario:

ACME, a third-party company wants to verify and do background checks of potential Business Partners.

- ACME has no user/access to SAP backend but wants to quickly learn about any relevant creation or update of a **Business Partner** in **SAP ERP or S/4HANA** in real time.

- ACME can view and review Business Partners in **custom build extension application** that runs on the SAP Business Technology Platform.

SAP NetWeaver® Event Enablement Add-on
Where to find?

- **Mission:** [Extend SAP ERP 6.0 (ECC) business processes on SAP BTP](#)

- [SAP Blog "Event-driven architecture – now available for SAP ECC users"](#)

- **SAP Help documentation:** [SAP NetWeaver Add-On for Event Enablement](#)

- **Related Missions:**
  - [Mission: Consuming Business Events from SuccessFactors using SAP Event Mesh](#)
  - [SAP S/4 HANA Cloud Mission: Build an Event-Driven Geomarketing Extension for SAP S/4HANA Cloud](#)
  - [Custom HTML5 Apps Mission: Setup for SAP S/4HANA side-by-side UI Extensions on SAP BTP](#)
  - [Mission: Extend SAP S/4HANA business partner using SAP BTP Extension Suite](#)
  - [Best Practices Guide](#) to help you plan, set up your landscape and your lifecycle management for running applications on SAP Business Technology Platform (SAP BTP).

Thank you.

Contact information:

Sangeetha.Jayakumar@sap.com
Wolfgang.Scheer@sap.com