SAP Garage

Extend Business Processes on SAP Business Technology Platform

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SAP SE
Customer Motivation for a Side-by-Side Extension

• Integration of multiple backends

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

• Integration of other cloud services
  o IoT, Analytics, Machine Learning, Mobile …

• Temporary decoupling of processes from backend
  o Event-driven Architecture
  o Better performance and user experience

• Improve user experience
  o 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](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 NetWeaver® Event Enablement Add-on—**Feature Highlights**

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<tr>
<th>Connect applications, services, systems</th>
<th>Communicate reliably and scalable</th>
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<tbody>
<tr>
<td>Connect applications, services, and systems seamlessly across different landscapes using asynchronous communication.</td>
<td>Reliably send and receive messages through applications, services, and systems using standard messaging protocols.</td>
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<tr>
<td>✓ Initial Data Loads with OData</td>
<td>✓ End-to-End Monitoring</td>
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<td>✓ Incremental Data Loads</td>
<td>✓ Message re-processing</td>
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<td>✓ Cross-system aggregation</td>
<td>✓ Secure communication</td>
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<th>Event-driven extensions for SAP systems</th>
<th>High throughput of messages, low latency</th>
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<tr>
<td>Build applications and extensions that can react to events from your SAP system, out-of-the-box.</td>
<td>The messaging infrastructure decouples communication to scale and handle unexpected peaks in data traffic.</td>
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<td>✓ Unlimited extensibility of events</td>
<td>✓ Configurable frequency</td>
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<td>✓ Easy to add to flexible framework</td>
<td>✓ Configurable package sizes</td>
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<td>✓ Utilization of ALE change pointer</td>
<td>✓ Parallel processing</td>
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Mission: Extend SAP ERP 6.0 (ECC) business processes on SAP BTP

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
  - 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.

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