TEC206 – Extensibility Concepts for SAP S/4HANA
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<table>
<thead>
<tr>
<th>Location</th>
<th>Dates</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Las Vegas, Sept 19 - 23</td>
<td>Felix Wente</td>
<td></td>
</tr>
<tr>
<td>Bangalore, October 5 - 7</td>
<td>Mamatha K H</td>
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</tr>
<tr>
<td>Barcelona, Nov 8 - 10</td>
<td>Felix Wente</td>
<td></td>
</tr>
</tbody>
</table>
Agenda

Extensibility in SAP S/4HANA
Key User In-App Extensibility
Side-by-Side Extensibility
Classic Extensibility
SAP S/4HANA APIs
Summary & Outlook
Extensibility in SAP S/4HANA
Flexibility in SAP S/4HANA
# SAP S/4HANA Deployment Options

<table>
<thead>
<tr>
<th>SAP S/4HANA Enterprise Management</th>
<th>SAP S/4HANA Enterprise Management Cloud</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>On Premise</strong></td>
<td><strong>Private Cloud option</strong></td>
</tr>
<tr>
<td><strong>Scope</strong></td>
<td><strong>Public Cloud Option</strong></td>
</tr>
<tr>
<td>Full ERP Scope</td>
<td><strong>Scope</strong></td>
</tr>
<tr>
<td>Full process flexibility; complete configuration scope, extensions and modifications possible</td>
<td>Focused scenarios across lines of business</td>
</tr>
<tr>
<td>Full process flexibility; complete configuration scope, extensions and modifications possible</td>
<td>Guided process flexibility; extensions via custom code services; No modifications allowed</td>
</tr>
<tr>
<td>Traditional Licensing Model</td>
<td>SW &amp; DB Licensing</td>
</tr>
<tr>
<td>Traditional Licensing Model + Subscription</td>
<td>Single subscription contract</td>
</tr>
<tr>
<td>Customer responsibility</td>
<td>Appl. Mgmt. Services</td>
</tr>
<tr>
<td>Available as additional, customer-specific options</td>
<td>Included in single subscription contract</td>
</tr>
<tr>
<td>Customer responsibility</td>
<td>Infrastruct. Mgmt.</td>
</tr>
<tr>
<td>Customer-specific options</td>
<td>Cloud Enterprise Support</td>
</tr>
<tr>
<td>Customer-specific options</td>
<td>SAP with Customer interaction</td>
</tr>
<tr>
<td>Based on support agreement</td>
<td>Customer</td>
</tr>
<tr>
<td>Customer-specific options</td>
<td>Limited; Customer responsible for testing</td>
</tr>
<tr>
<td>Customer</td>
<td>Customer involvement is part of the model</td>
</tr>
<tr>
<td>Full; customer owns configuration, operation, upgrade</td>
<td>Customer Involvement</td>
</tr>
<tr>
<td>Web + SAPGui</td>
<td>End User Access</td>
</tr>
<tr>
<td>Web + SAPGui</td>
<td>Web + SAPGui</td>
</tr>
<tr>
<td>Annual Updates</td>
<td>Innovation Cycle</td>
</tr>
<tr>
<td>Annual Updates</td>
<td>Quarterly Service Packs, yearly releases</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**On-premise Attributes** | **Hybrid Attributes** | **Cloud Attributes**

1. **Full ERP Scope**: Provides a comprehensive ERP scope, including full configuration, extensions, and modifications.
2. **Process Flexibility**: Offers full process flexibility with complete configuration options, extensions, and modifications.
3. **SW & DB Licensing**: Includes single subscription contracts for software and database.
5. **Infrastruct. Mgmt.**: Included in single subscription contract.
6. **Cloud Enterprise Support**: SAP with customer interaction.
7. **Limited; Customer responsible for testing**: Limited customer responsibility.
8. **Customer involvement is part of the model**: Customer involvement is part of the model.
9. **Web + SAPGui**: Web access via SAP GUI.
10. **Quarterly Service Packs, yearly releases**: Quarterly updates for software.

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# SAP S/4HANA

## On premise versus Cloud

<table>
<thead>
<tr>
<th>Customer Expectations</th>
<th>Maximal flexibility in business critical processes far beyond standardization.</th>
<th>Always newest patches, new innovations easily available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Update Cycle</td>
<td>Slow, customer decides on update</td>
<td>Fast, based on fixed schedule</td>
</tr>
<tr>
<td>Extensibility Concept</td>
<td>Not only about adding business logic, sometimes even modification required. But: Strong desire to reduce TCO where possible!</td>
<td>Loosely coupled extensions and cloud-ready lifecycle processes guarantee system stability</td>
</tr>
<tr>
<td>Business Expert Empowerment</td>
<td>IT as the mayor player But: Strong desire to fasten innovation cycles – need to involve LOBs!</td>
<td>LoBs drive innovations Business experts easily apply non-disruptive changes without risk</td>
</tr>
</tbody>
</table>
SAP S/4HANA Architecture is much simpler than classical Business Suite architecture

- Data structures
  (Compatibility provided through Core Data Services)
- Application engines
- Launchpad / Fiori
  (SAPGUI for Windows still available for compatibility reasons on-premise)
SAP S/4HANA Extensibility
Cloud and On premise

Key user extensibility

Classic extensibility

On-premise

Cloud edition

SAP Business Suite

User Interface
Application
Database

Extensions
Modifications

In-App Extensibility

Public APIs
SAP
Customer, Partner

Side-by-side extensibility on SAP HANA Cloud Platform

User interface
Application
Database (SAP HANA)
Key User In-App Extensibility
SAP S/4HANA Extensibility
Roles & Needs

**Business User**
- ✓ I want to
  - Change order of columns in a table
  - Hide tabs
  - Change format of dates/numbers
  - Hide few apps on launchpad
- ✓ My changes should not affect other people

**Business Expert, Implementation Consultant**
- ✓ I want to
  - Add/change business rules/logic
  - Add custom fields, tables, reports, forms
  - Use my company theme/logo
  - Change layout
- ✓ My changes should affect people in my LOB/company

**Developer**
- ✓ I want to
  - Add/change complex business logic
  - De-couple software lifecycle of standard and extensions
- ✓ My changes should affect people in my company
SAP S/4HANA Extensibility
Key User Extensibility – Easy Changes & Extensions of a Fiori App

UI-Layout-Changes
- e.g. hide, move, add existing fields

Add custom fields

Report Adaptation
- Add customer specific logic (BAdI)

Forms Designer

E-Mail Template Designer

Fiori UI

ODATA Service

Application

Database Table

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SAP S/4HANA Key User Extensibility: Custom Fields & UI Flexibility

1. Switch Your Application to Personalization Mode
2. UI Personalization: Hide/move/add fields
SAP S/4HANA Key User Extensibility: Custom Fields

3. **New Custom Field**

   - Create a new custom field.
   - Managed the usages of the custom field.
   - Go back to UI personalization and add custom field to the UI.

4. **Managed the Usages of the Custom Field**
### SAP S/4HANA Key User Extensibility: Custom Fields

Example: Extended Business Partner Header Table (BUT000) – Extension Include

<table>
<thead>
<tr>
<th>Field</th>
<th>Data Element</th>
<th>Data Type</th>
<th>Length</th>
<th>Decimal Places</th>
<th>Short Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLIENT</td>
<td>CLNT</td>
<td>MANDT</td>
<td>3</td>
<td>0</td>
<td>Client</td>
</tr>
<tr>
<td>PARTNER</td>
<td>BU_PARTNER</td>
<td>CHAR</td>
<td>10</td>
<td>0</td>
<td>Business Partner Number</td>
</tr>
<tr>
<td>NAME_LAST</td>
<td>BU_NAMEP_L</td>
<td>CHAR</td>
<td>40</td>
<td>0</td>
<td>Last name of business partner</td>
</tr>
<tr>
<td>NAME_FIRST</td>
<td>BU_NAMEP_F</td>
<td>CHAR</td>
<td>40</td>
<td>0</td>
<td>First name of business partner</td>
</tr>
</tbody>
</table>

```
.INCLUDE INCL_EEW_BUT000
BP_EEW_DUMMY DUMMY CHAR 1 0 Dummy function in length 1
.APPEND YY1_TSHIRTSIZE_BUH_P YY1_TSHIRTSIZE_CHAR 3 0 YY1_TShirtSize
```

**Extension Append & Field (Customer)**

**Extension Include (SAP)**
SAP S/4HANA Key User Extensibility: Custom Fields
Example: CDS View

```abap
define view I_CfdTsm_Bupa as
  select from P_CfdTsm_Bupa as BuPa

  association[1] to I_CfdTsm_Bupa_Hdr_Incl as BuPaHeaderExtension
    on BuPaHeaderExtension.id = BuPa.Id
  association[1] to I_CfdTsm_Bupa_Adr_Incl as BuPaAddressExtension
    on BuPaAddressExtension.parent_id = BuPa.Id

{ key BuPa.Id as Id,
...

@AbapCatalog.sqlViewAppendName: 'Y1578599AAC2F897'
  extend view I_CFDTSM_BUPA
    with YY1_KLONUXDBLLZ6FYCD62R2EZHHXE
  { BuPaHeaderExtension.YY1_TSHIRTSIZE_TBH as YY1_TShirtSize_Tbh
  }
```

CDS View
(SAP)

Extension
(Customer)

Extensibility in SAP S/4HANA: Insights to the Generated Backend Objects
SAP S/4HANA Key User Extensibility: Custom Fields
Example: Extented Odata Service

```
<ElementType Name="BusinessPartner" sap:content-version="1">
  <Key>
    <PropertyRef Name="Id"/>
  </Key>
  <Property Name="Id" Type="Edm.String" Nullable="false" MaxLength="10" sap:label="Business Partner ID"
    sap:createable="false" sap:updatable="false" sap:sortable="false" sap:filterable="false"/>
  <Property Name="Name" Type="Edm.String" Nullable="false" MaxLength="1" sap:label="Name"
    sap:createable="false" sap:updatable="false" sap:sortable="false" sap:filterable="false"/>
  ...
  <Property Name="YY1_tshirtsize_Tbh" Type="Edm.String" MaxLength="3"
    sap:field-control="YY1_tshirtsize_TbhF"
    sap:text="YY1_tshirtsize_TbhT" sap:label="T-Shirt Size" sap:is-extension-field="true"/>
</ElementType>
...

<ElementType Name="YY1_tshirtsize" sap:content-version="1">
  <Key>
    <PropertyRef Name="Code"/>
  </Key>
  <Property Name="Code" Type="Edm.String" Nullable="false" MaxLength="3"
    sap:text="Description" sap:label="T-Shirt Size "/>
  <Property Name="Description" Type="Edm.String" MaxLength="60" sap:label="T-Shirt Size (Desc.)"/>
</ElementType>
```

OData Service
ABAP Web Editor with Key user experience

- **Purpose**: Implement lightweight BAdIs released for cloud usage – no application development
  E.g. Checks, Mappings, Calculation
- **Easy consumption of released APIs**
- **Syntax check & highlighting, code completion**
- **Draft (sandboxing) / published, testing included**
- **Restricted ABAP**:
  - Robustness / security / data consistency
  - The following statements are not allowed: any DB operation except selects from released views, tweaking new tasks, dynamic programming, code generation, obsolete ABAP statements

Video link
SAP S/4HANA Key User Extensibility: Custom Business Logic
Example: Program Coding

### SELECT from public CDS view

```
SELECT FROM i_salesorder FIELDS SUM(netamount)
    WHERE customer = @businesspartner INTO @DATA(amount).
```

### Web-based ABAP

```
IF amount > 400000.
    rank = 1.
ELSEIF amount > 100000.
    rank = 2.
ELSEIF amount > 50000.
    rank = 3.
ELSE.
    rank = 0.
ENDIF.
```

### Error messages

- The statement COMMIT is invalid
- <private_view> is not defined

### Restrictions

- COMMIT WORK.
- SELECT count(*) FROM <private_view> INTO @DATA(counter).
Process oriented field extensibility

How is it used?
Custom Field UI allows to select a Business Scenario

<table>
<thead>
<tr>
<th>Description</th>
<th>Field Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Partner to Invoice</td>
<td>Disabled</td>
</tr>
<tr>
<td>TSM Business Partner Header to TSM Sales Order Header</td>
<td></td>
</tr>
<tr>
<td>TSM Sales Order Header to TSM Invoice</td>
<td></td>
</tr>
</tbody>
</table>
SAP S/4HANA Key User Extensibility: Custom Business Objects

Custom Business Objects

- Table extensibility: New (standalone) custom tables that are not child tables of SAP tables
- CDS views and OData services and UI to feed data through a UI or data load from other customer systems
- Creating a new application with simple business logic
SAP S/4HANA Key User Extensibility: Analytics Extensibility

Query Builder

- Copy a query from a SAP delivered standard analytical query
- Add or remove or customize field defined in the query (defining new labels for a field, display data as key or text, show or hide result rows etc.)
- Add or remove filters (pre-configured fixed value filters or user input values filters)
- Create parameters to read the values from the user
- Create custom fields such as restricted measures or calculated measures
- Testing included: Preview the results by executing the report
Adobe Forms Designer: Create a new form template
- as a copy of a SAP standard form
- based on an existing data source (ODATA service)
- based on an extended ODATA service using already existing fields and associations from published CDS views
- based on a new data source (ODATA service)

E-Mail Template Designer Create a new e-mail template
- based on an existing data source (CDS View)
- based on an extended SAP data source (CDS View)
- based on a new data source (CDS View)
Public Cloud: Transport from Q to Prod

- SAP updates: All extensibility capabilities offered to customers must continue to work after an SAP software update without manual work; in other words: SAP software updates do not depend on adaptations by the customer.
- The transport of adaptations from the test to the production system is performed by the key user without interaction with the service provider and outside of the maintenance window of the service provider.

On Premise: Transport from Dev to Q to Prod

- Customer manages SAP updates and customer transport with “classical” transport tools (correction and transport system, CTS)
SAP S/4HANA Extensibility Scenarios

Frontend

Backend: ABAP Server

Custom UI

Custom User Interface (Fiori)

User Interface (Fiori)

UI Adaptation

OData Service

OData Service

Application (ABAP | CDS)

Application (ABAP | CDS)

Custom Business Objects

Custom Business Objects

Custom Fields

Custom Fields

Database Table

Database Table

SAP

In-App Extensibility

I6

I1

I11

I5

I12

I13

I14

I15

I16

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Customer Feedback Marketing Edition

Key Messages

- All implementing customers/partners have used the app “Custom Fields and Logic” without help of SAP
- Very positive Feedback: “Cool App”; “Finally an easy app to create fields”; “Will the app also be available onPremise”
Side-by-Side Extensibility
SAP S/4HANA and SAP HANA Cloud Platform (HCP) in a nutshell

Extension Scenarios

**HCP: Extend reach. Integrate. IoT.**

Side-by-side extensibility with HCP
- Integrate with SAP Cloud apps and 3rd party solutions
- Input from external users, mobility etc.
- Extend core processes by before and after steps, (e.g., customer service or triggers from sensor data)
- New standalone cloud apps (IoT etc.)

**S/4HANA: Enrich the Core**

In-app extensibility
- Variants of standard processes and business logic (e.g., micro vertical solutions, localization)
- Focus on company owned business documents (e.g., legal compliance)
- Analytics extensibility, e.g., tailored operational reporting for minimized asset allocation
SAP S/4HANA Extension Scenarios
Technology Perspective

HCP: Extend reach. Integrate. IoT.

Side-by-side extensibility with HCP
• HTML5, SAP Fiori and OData
• Develop application with Java or HANA XS
• Integrate with Cloud Connector and HCI

SAP S/4HANA: Enrich the Core

In-app extensibility
• Key User: Fields and tables, business logic (rules frameworks etc.)
• Developer: Classic ABAP (on-premise only) & Restricted ABAP (cloud)
Basics: Extending S/4HANA Cloud Edition

S/4HANA Cloud

Provides Apps and Data to Users with appropriate Permissions.

SAP HANA Cloud Platform

Runs Apps that can be accessed from the Internet and that can access S/4HANA Cloud

Application Frontend

User

INTERNET

HTTPS
Basics: Extending S/4HANA On-Premise

S/4HANA On-Premise

Security Tunnel

SAP HANA Cloud Connector

SAP HANA Cloud Platform

Application Frontend

INTERNET

CORPORATE NETWORK

Provides Apps and Data to Users with appropriate Permissions.

Connects on-premise Backends to Apps on the SAP HANA Cloud Platform.

 Runs Apps that can be accessed from the Internet and that can access S/4HANA on-premise.

HTTPS / RFC

HTTPS
Extending in S/4HANA on HCP is Simple

Setup Cloud Connector

Destination to SAP S/4HANA

Develop App

Deploy App

Setup Identity Provider

Integrate in Launchpad

Cloud Connector

HCP Cockpit

Web IDE

HCP Cockpit

Launchpad Designer

SAP S/4HANA On-premise

SAP S/4HANA Cloud edition
SAP S/4HANA Extensibility Scenarios

**Frontend**
- SAP Launchpad
- Custom User Interface (Fiori)
- User Interface (Fiori)
- OData Service

**Backend:**
- Application (ABAP | CDS)
- Database Table

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**SAP In-App Extensibility**
- Application (ABAP | CDS)
- Database Table
- OData Service

**Custom User Interface (Fiori)**
- Application (Java | JS | CDS)
- Database Table
- OData Service

---

**Side-by-Side Extensibility**
- Application (ABAP | CDS)
- Database Table
- OData Service

**HCP Application**
- Application (Java | JS | CDS)
- Database Table
- OData Service

**Data Replication**
- Data Replication (S1)
- Data Replication (S2)
- Data Replication (S3)
- Data Replication (S4)
- Data Replication (S5)
Classic Extensibility
S/4HANA Changes relevant for classic extensibility

Overview about scope changes in SAP S/4HANA Finance (example)
Note 2119188 describes financials processes, enterprise extensions, industry solutions released
Note 1946054 comparison of EhP7 programs and transactions with Simple Finance
...
https://help.sap.com/sfin200

Simplification Database
Typical scenario: Index&shadow tables are converted into SAP HANA compatibility views
Functionality pushdown into SAP HANA/CDS

Key extensions (e.g. MATNR 18->40 characters)
Released APIs are changed in a compatible way
When using non-released remote APIs, customers might have to adopt their code
1. Download Simplification Database from SMP and upload to analysis system.

2. Run Custom Code Extractor and transfer metadata to analysis system.

3. Optional: Get usage data to restrict effort for productively used custom code.

4. Work on customer specific hits.

Task:
- Customer ERP DEV or Q System
  - Custom Code Extractor
- Customer ERP Productive System
  - Collect Usage Data

Analysis System:
- Simplification DB
  - Changed/deprecated functionality
  - Changed/deprecated business processes
- Custom code metadata
  - Used SAP objects
  - Extended SAP objects
  - Modified SAP objects
- Customer specific metadata
  - Usage data from productive System

Result of Analysis:
- Affected custom code
- Affected extensions
- Affected modifications
The Road to S/4HANA
ABAP Custom Code Migration

SAP HANA and Unicode migration
SAP Business Suite powered by SAP HANA
Simplification changes
SAP S/4HANA on premise
S/4HANA Cloud

Suite on any database

Classic Extensibility with full access to ABAP development tools

Side-by-Side Extensibility based on SAP HANA Cloud Platform
Transition of Custom Fields into Key User Extensibility
SAP S/4HANA APIs
SAP S/4HANA: APIs for customers and partners

- Custom UIs
- Side-by-side HCP extensions
- In-App ABAP extensions
- Other PaaS & SaaS, Legacy systems, Integration Hubs

Public Model
- Coded OData
- OData via CDS

Internal
- OData
- CDS

Code based APIs
- Classes & Functions (BAPIs)
- DDIC Types

Preferred option

Breakout option

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Summary of the Extensibility Capabilities of SAP S/4HANA

**SAP S/4HANA**
In-app extensibility: Context-aware extensions, focus on tight integration

**Key User Extensibility**
- Custom fields and tables, analytics and forms
- Change or add business rules and business logic (cloud ABAP Web editor)
- UI flexibility

**Classic Extensibility**
- Full access to ABAP, keep existing extensions

**Side-by-side extensibility with SAP HANA Cloud Platform:**
Learn from the outside, weave external content into your solutions

**Extensibility based on SAP HANA Cloud Platform**
- Custom Fiori UIs, UI extension scenarios
- Integrate with other cloud solutions (for example, from SuccessFactors and Ariba, both SAP companies) and third-party solutions
- Completely new solutions
  - Typical: self-contained applications, loosely coupled to S/4, reaching out to customers-of-customers
  - Take advantage of application and database services for SAP HANA Cloud Platform (cloud portal, mobile documents, output management, ...)
  - Use a full-fledged development platform Java, SAP HANA native development, WebIDE
SAP S/4HANA Extensibility Roadmap

Today
- Side-by-side HCP app
- 1st Business Process Services – SAP hybris YaaS, public beta
- HCP Platform Services (SSO, Output Management, Mobile Documents)
- Integration with SAP and non-SAP solutions (HCI)
- Custom development
  - CDS, VDM, CDS-based OData exposure
- Key user in-app extensibility tools
  - UI flexibility (hide, move, add fields, change labels)
  - Custom fields and logic
  - Custom reports and forms
  - Custom business objects

Planned for Next Versions
- Side-by-side HCP app with end-to-end processes of Identity Management & SSO, and automation
- Additional services and features on HCP
- Key user in-app extensibility tools
  - Improvements (new features) of existing tools
- Custom development
  - “Restricted ABAP”
- API management – exploration, documentation, versioning etc.

1 limitations in SAP S/4HANA cloud version, e.g. technical user
2 for UIs built with smart controls
3 first shipment, improvements in later releases
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- Demo Jam
- SAP TechEd live interviews
- Select lecture sessions
- Hands-on sessions
- …
Further information

SAP Public Web
scn.sap.com
www.sap.com
Extensibility of S/4HANA – Helpful Links
The Key User Extensibility Tools of S/4 HANA

SAP Education and Certification Opportunities
www.sap.com/education

Watch SAP TechEd Online
www.sapteched.com/online
Reference to other sessions / information

Deep Dive TechEd session:

- Extensibility in SAP S/4HANA: Insights to the Generated Backend Objects (DEV716, Code Review)
- Extensibility in SAP S/4HANA: Custom Business Object / UI Generation (DEV709, Code Review)

Related TechEd session:

- The ABAP Programming Model in SAP S/4HANA (DEV109, L2)
- Extensibility Framework for SAP S/4HANA: End-to-End Scenario (DEV108, L2)
- Building an End-to-End SAP Fiori App Based on SAP S/4HANA and ABAP (DEV212, H2)

Expert Network Sessions:

- SAP S/4HANA Extensibility Framework

Related TechEd session:

- ABAP Road Map - ABAP Contributions to SAP S/4HANA (TEC104, L1)
- SAP S/4HANA: Custom Code Adaption (TEC300, L1)
- Extending SAP Business Suite and SAP S/4HANA with SAP HANA Cloud Platform (DEV102, L1)
- An Update on Our Strategy for Cloud Integration (INT201, L1)
Feedback

Please complete your session evaluation for TEC206

Contact information:
Felix Wente

Thanks for attending this session.