

## SAP S/4HANA Cloud

## **In-App Extensions**

Power Week Session, SAP August, 2019

**PUBLIC** 



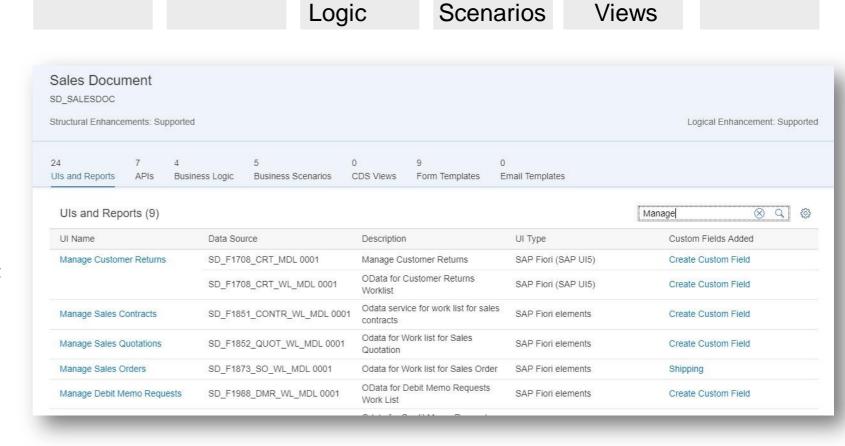
## **Extensibility Cockpit**

Overview about all extension objects of a business context in S/4HANA Cloud

Uls



- End-to-end selection from solution scope, scope item to business context
- On further drill-down, see a full list of extendable objects for the selected business context
- See the already implemented extensions belonging to the filtered Business Context objects
- Respective links for navigation to objects and extensions, e.g. custom fields, standard APIs, CDS views



**Business** 

CDS

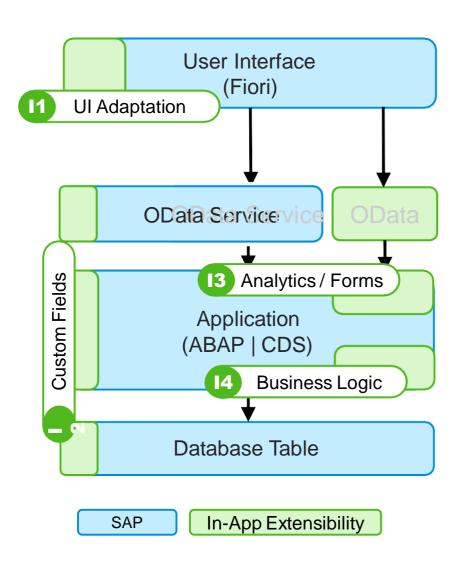
**Business** 

**APIs** 

**Forms** 

## **SAP S/4HANA In-App Extensibility:**

## In-App Key User Extensibility Scenarios





#### Adapt Uls

show/hide/re-arrange/rename identifier of standard and custom fields

#### Create custom fields

Define custom fields and publish it for dedicated CDS views, APIs, UIs DDIC is automatically generated, CDS views and OData services are automatically extended

#### 3. Custom Analytics and Forms

Assign defined custom fields for forms

#### 4. Implement Custom Business Logic ("BAdIs")

Implement business logic in 'Restricted ABAP'; access custom fields, read other objects via CDS views; call external web-based services

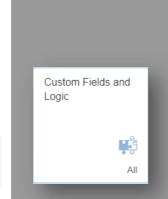
## SAP S/4HANA In-App Key User Extensibility: Custom Fields

Custom Service Interfaces

#### **Custom Fields**

Add fields to SAP standard objects

Name	Weight	YY1_Size



#### **Custom Fields**

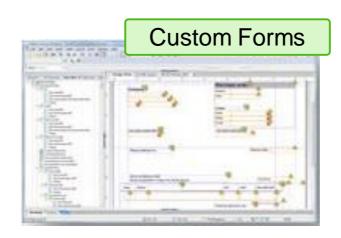
- Definition of custom fields
- Manage where to use: Uls, reports, forms, service interfaces, business scenario (data flows), search.

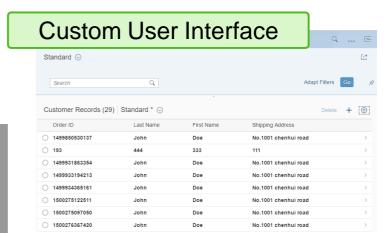
#### **Business Scenario**

Scenarios Available for Business Context Purchasing Document (2)

Description

- > Purchase Order to Delivery on header level
- > Purchase Requisition Item to Purchasing Document Header







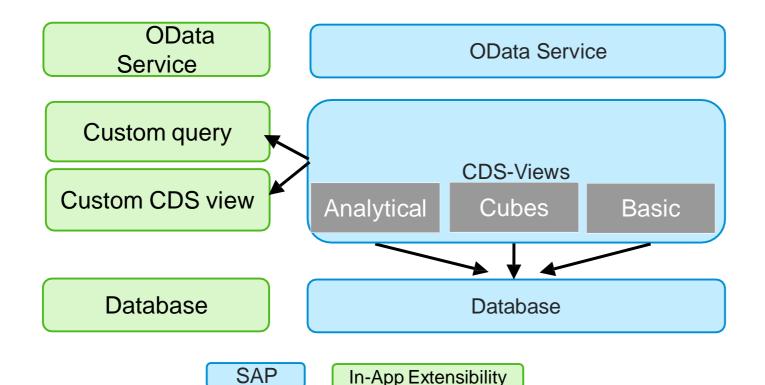
## **SAP S/4HANA In-App Extensibility:**

## **Custom Reporting**

**Custom Reporting** 





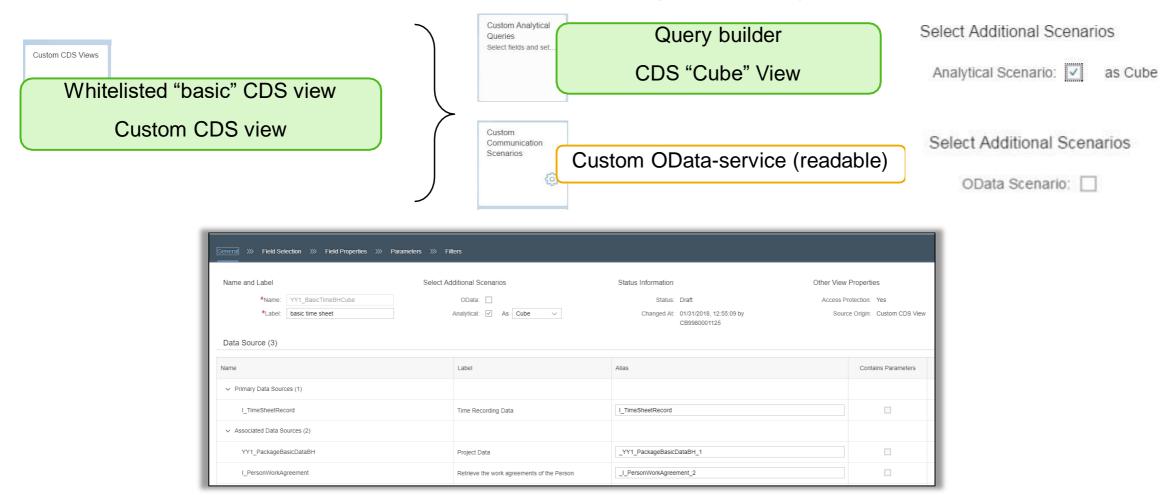


#### Extend the standard reporting

- Use SAP queries or cubes to define your own custom query
- Use > 700 released basic CDS views or cubes to define your own custom CDS view and
  - generate a custom cube,
  - design a KPI reporting,
  - or generate an external called OData service

#### **Custom CDS Views**

Custom CDS views are based on whitelisted "I\_" views (basic views)

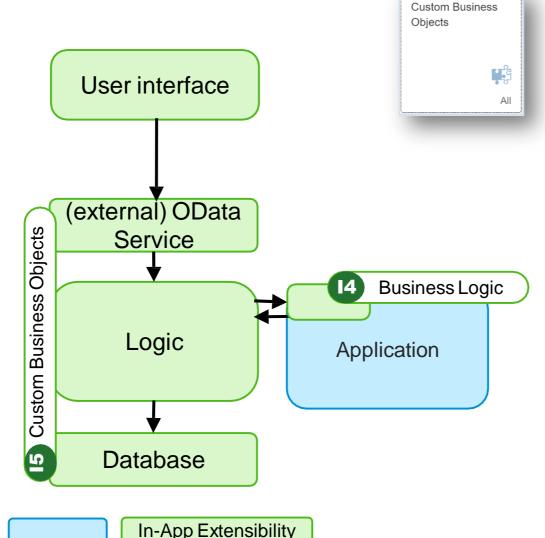


Documentation about basic CDS views

## **SAP S/4HANA Cloud In-App Extensibility:**

**Customer Development Extensions** 

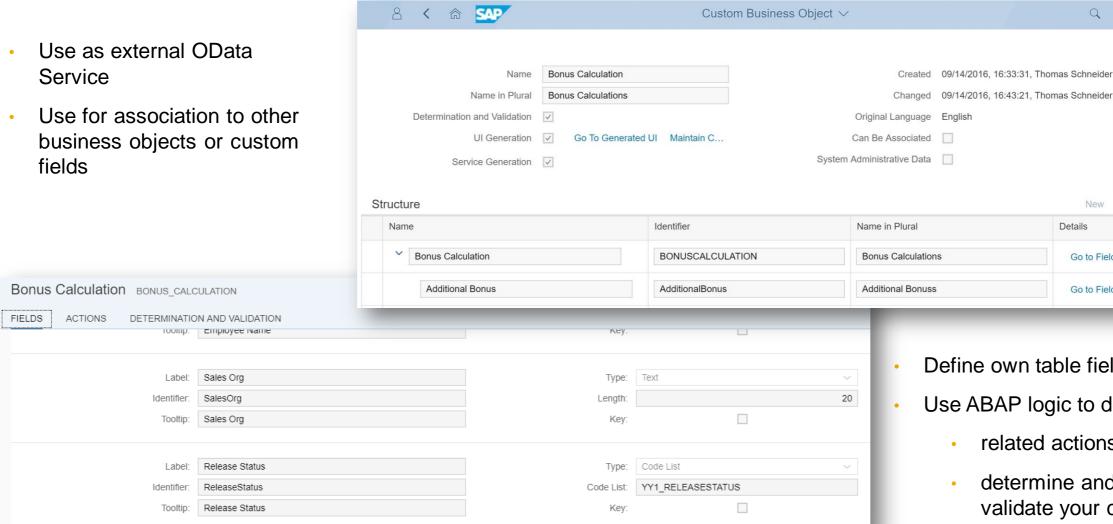




Develop you extension in ABAP

- Define own data object structures (custom tables) and add business logic in ABAP.
- A Fiori UI can be automatically generated and adapted with the WEB IDE
- Use business logic (e.g. BADIs) to run actions or validate the entries
- use your business object to create your custom OData services (read/write)
- Maintain custom tile on Launchpad
- Associate to custom fields or other custom business objects

## **Custom Business Objects**



- Define own table fields
- Use ABAP logic to develop
  - related actions in ABAP

Details

Q @ E

New Delete 🚱

Go to Fields and Logic

Go to Fields and Logic

Bonus Calculations

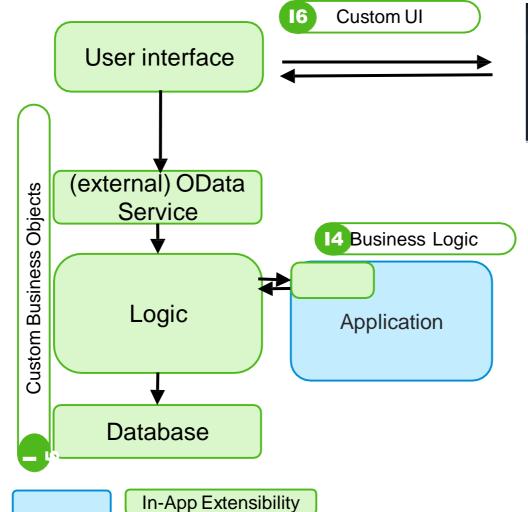
determine and validate your custom table

## **SAP S/4HANA Cloud In-App Extensibility:**

## **Customer Development Extensions**

SAP S/4HANA

Cloud



SAP WebIDE



Generate a custom UI with SAP WebIDE

- Import your custom business objects in WebIDE
- Freely adapt and customize your UI application
- Deploy and run in SAP S/4HANA Cloud

## **Extensibility Inventory**

#### Keep the overview about your Extensions in SAP S/4HANA Cloud

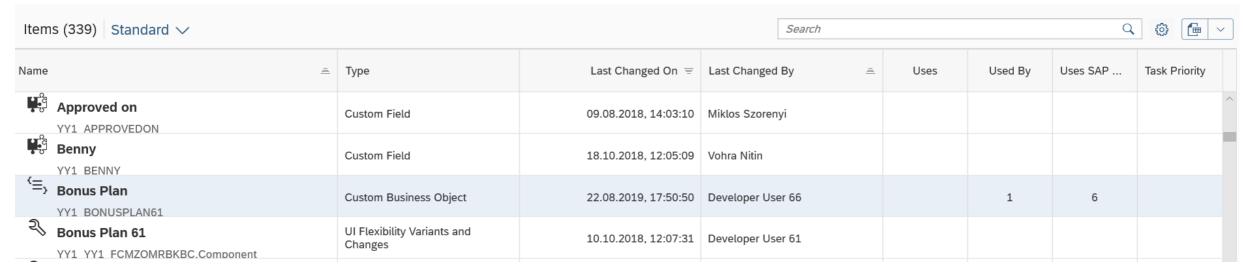
Which objects

Who and when changed

Usage

Transport status

21



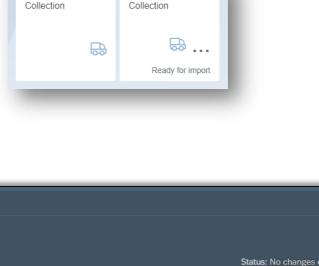
Detail view for each extension



## In-app Extensibility – Lifecycle Management in SAP S/4HANA Cloud

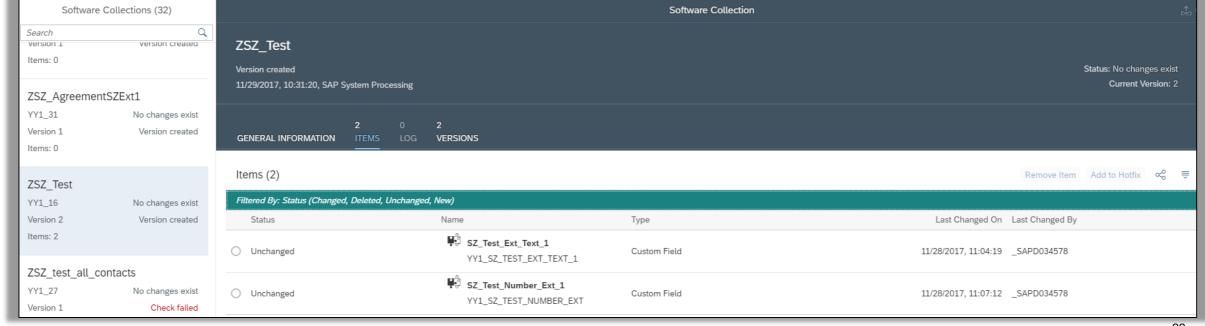
#### **Transport of custom objects:**

- transport from the test to the production system
- performed by the key user without interaction with the service provider
- Independent from SAP update



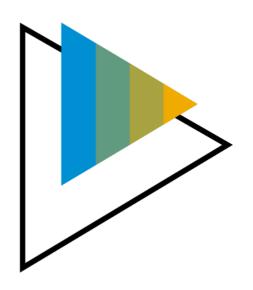
Import Software

Export Software



## **In App Extension**

Demo



# Thank you.

