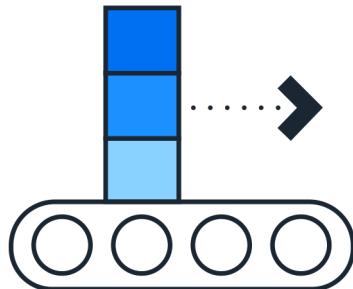


The background image shows a group of people at a trade show or conference. In the center, a man in a dark suit and tie is smiling and holding a small white card or brochure. Behind him, a banner for 'DevOps & Test Automation' is visible, featuring text like 'Achieve Continuous Maintenance', 'Transform SAP', and 'Adopt Agile Development'. An 'EXIT' sign is visible in the background. The overall atmosphere is professional and networking-oriented.

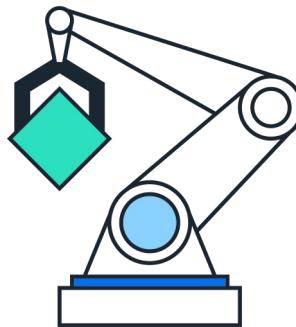
Warum die „First“-Strategie Ihren Wettbewerbsvorteil sichert

Marian Zeis, Independent SAP Developer

SAP Fiori elements makes it faster and easier to build SAPUI5 apps



- Boosts Developer Productivity
- Build SAP Fiori apps faster and more easily than manually coding by using the same framework that SAP uses.

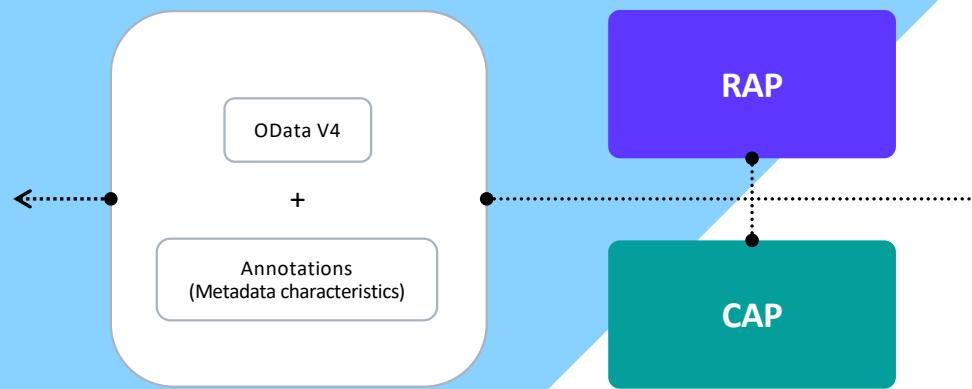
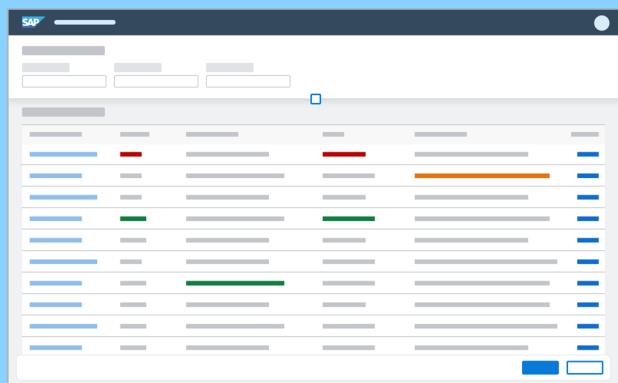


- Drives UX Consistency
- Spend more time on the business logic to implement business needs and less time coding the UI since the framework provides the UI.



- Enables Enterprise Readiness
- Give your business users the enterprise-grade functionality they expect without having to develop it yourself.

SAP Fiori elements apps run in the browser and connect to your SAP system



Example of SAP Fiori elements app floorplan with building blocks coming together

■ RAP: ABAP RESTful Programming Model

Built primarily for SAP's ABAP environment

■ CAP: Cloud Application Programming Model

Designed for cloud applications

Standard floorplans boost developer productivity

Most enterprise use cases involve providing an overview, lists of business objects and management of these business objects

This screenshot shows a standard list view of 14,400 outbound deliveries. The columns include Delivery Document, Picking Date, Ship-to Party, Overall Status (Ready to Pk GI), and Pick status (e.g., Not Yet Processed, Pk). The interface is clean with a light blue header and a white body.

List report page | Display business objects

This screenshot shows a detailed view of a single outbound delivery (ID 80019690). It includes sections for General Information (Delivery Date 05/09/2024), Goods Movement (Quantity 1,000 KG), and Attachments. The right side displays various status indicators and compliance details.

Object page | Manage business objects

This screenshot shows an analytical dashboard for delivery performance. It includes a chart of Shipped vs Planned Ratio by Month, a bar chart of Average GI Delay by Delivery Type, and a line graph of Outbound Delivery Items over time. A table at the bottom provides summary statistics for Outbound Delivery Items.

Analytical list page | Filter visually

This screenshot shows a complex overview page for procurement. It includes sections for Supplier Performance Monitoring (Supplier DE 1, DE 2 L.A.), Purchase Requisition Touch Rate (High Touch, Low Touch), Purchase Requisition Item Types (Open, Pending), and Purchasing Spend (PO Net Amount by Quarter). The page is filled with numerous charts and data tables.

Overview page | Review business relevant data

Also:

Work list page

Forms page

Custom page

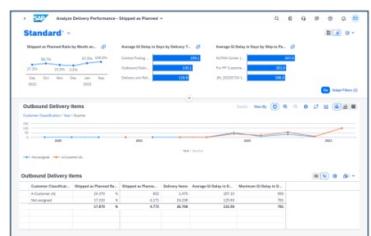
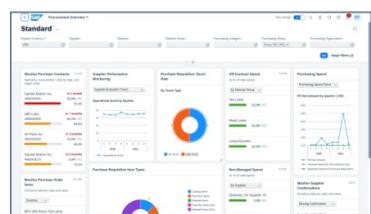
| View tasks

| Enter data

| Do whatever you want

What is Fiori Elements?

Out-of-the-box Features



Variant management

Search

Data lists

Filtering Sorting Actions

Personalization

Export to Microsoft Excel

Editing (including draft management)

Navigation

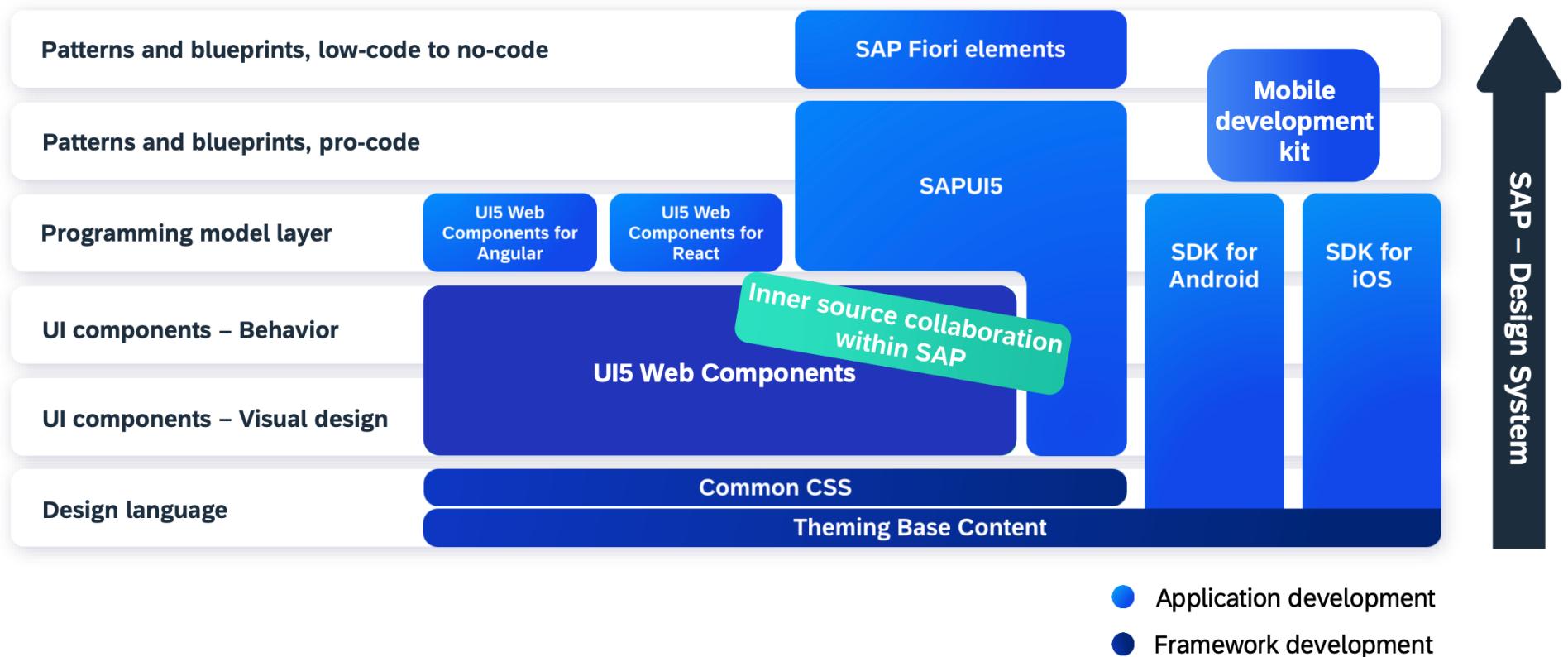
Object details

Object page

Source: [SAP](#)

What is Fiori Elements?

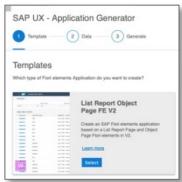
SAP UI Technologies



What has improved recently?

Tools support

Application Generator
Creates the project environment for development



Page Map & Editor
Allows editing of the structure of the app: pages, properties, and navigation



Guided Development
Provides step-by-step development instructions and generates code snippets in-line



Available in
SAP Business Application Studio
and
Visual Studio Code

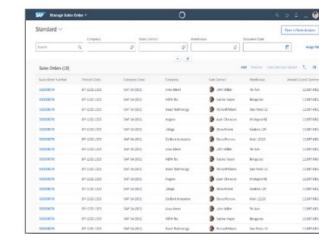
Service Modeler
Visualizes service entities, relations, properties, and annotations



Code Completion
Delivers a language server protocol for annotations with micro-snippets and diagnostics

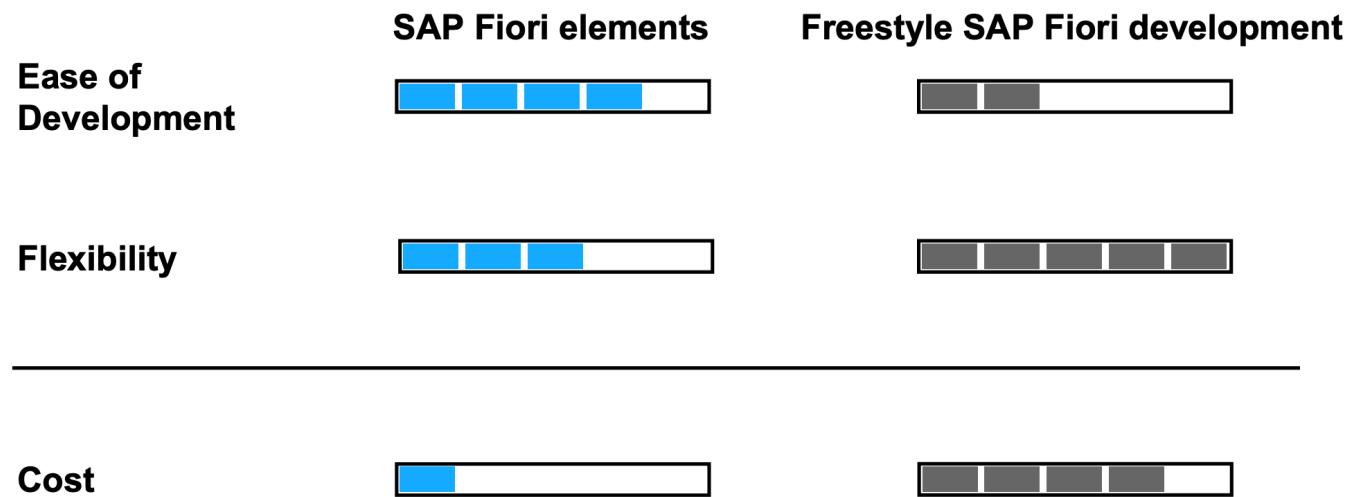


Application Preview
Provides preview of web app in the browser either with mock data or live data



What has improved recently?

Flexible Programming Model



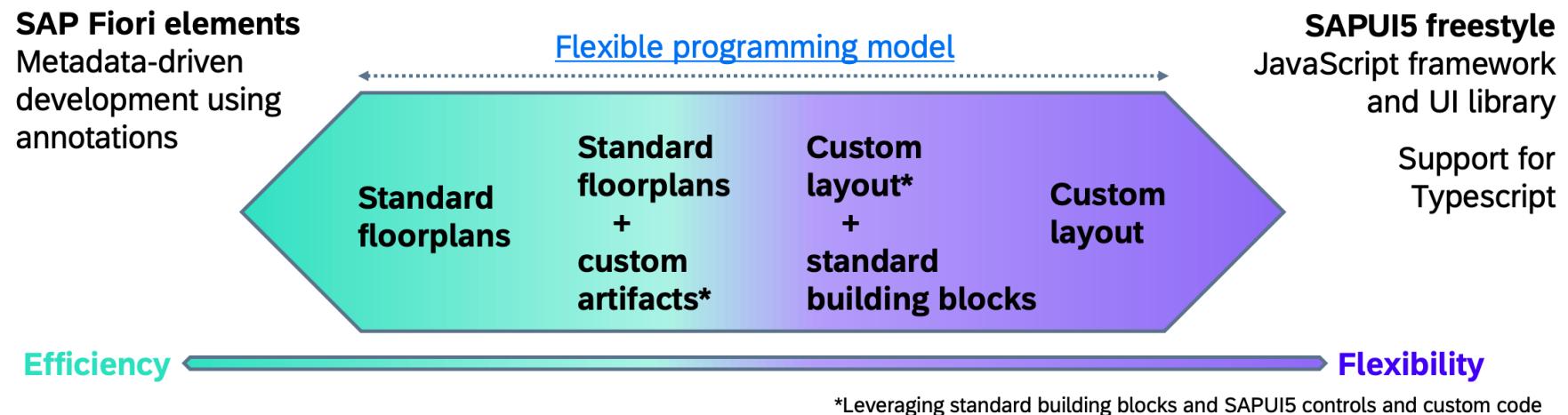
Source: openSAP: SAP Fiori Overview: Design, Develop and Deploy, Week 3

What has improved recently?

Flexible Programming Model

Flexible programming model blends SAP Fiori elements and freestyle SAPUI5

Using OData V4, developers have a **continuum** of options instead of an either/or decision.



What has improved recently?

Flexible Programming Model

The screenshot shows a travel booking interface for a 'Business Trip' (ID 4122). The travel details include:

| Travel ID: | Agency ID: | End Date: | Trees-4-Tickets: |
|---------------|---------------------------|--------------|-------------------|
| 4122 | Cap Travels Ltd. (070038) | Oct 7, 2021 | No |
| Description: | Customer ID: | Booking Fee: | Green Flight Fee: |
| Business Trip | Neubasler (000083) | 20.00 USD | 0.00 USD |
| Status: | Starting Date: | Total Price: | |
| Open | Oct 7, 2021 | 7,037.00 USD | |

The 'Travel Itinerary' section displays a map with three flight segments: San Francisco (SFO) to New York (JFK) via Frankfurt am Main (FRA). A callout message indicates that all bookings for travel 4122 got confirmed by the agency.

A yellow box highlights a table titled 'Bookings (2)' showing the details of the confirmed flights:

| No. | Booking Date | Customer ID | Flight Number | Flight Date |
|-----|--------------|--------------------|---------------|-------------|
| 1 | Sep 28, 2021 | Neubasler (000083) | 0018 | Oct 7, 2021 |
| 2 | Sep 28, 2021 | Wohl (000138) | 0018 | Oct 7, 2021 |

Table building block

Custom control

Source: [SAP](#)

What has improved recently?

Fiori Elements Extensions

The screenshot displays a Fiori application interface with several customizations:

- Custom Field:** A yellow box highlights a section titled "MPT Days Spent" which includes a chart showing Maximum Processing Time Days Spent.
- Custom Section:** A yellow box highlights a section titled "Maximum Processing Time" which contains a Gantt chart titled "Incident Process Flow".
- Custom Column:** A yellow box highlights a column in the "Incidents (12)" table labeled "MPT Days Spent".

Standard View (Left):

- Filters: Incident Status, Category, Priority.
- Chart: "Incidents Per Category" showing counts for hardware (blue), security (orange), software (green), and telephony (pink).
- Table: "Incidents (12)" listing incidents by Identifier, Priority, and MPT Days Spent.

Detail View (Right):

- Header: "Office phone gives echoes".
- Card: Priority: High, Incident Status: On Hold, Category: Telephony.
- Section: "MPT Days Spent" (highlighted by a yellow box).
- Section: "General Information" (highlighted by a yellow box).
- Section: "Incident Details" (highlighted by a yellow box).
- Section: "Admin Data" (highlighted by a yellow box).
- Section: "Maximum Processing Time" (highlighted by a yellow box).

Source: [SAP](#)

Why Fiori Elements?

Flexibility with UI Adaption

The screenshot shows the SAP Fiori Apps Reference Library interface for managing bank accounts. The title bar includes the SAP logo, the application name "Manage Bank Accounts", and a "Not secure" warning. The top navigation bar has tabs for "UI Adaptation" and "Navigation", along with "Publish", "Reset", and "Save & Exit". Below the navigation is a toolbar with buttons for "Import and Export Bank Accounts", "Manage Bank Account Hierarchies", "Create Document", and "Find Document". A dropdown menu is open over a table row, showing options: "Rename", "Remove", "Cut", and "Paste". The table displays 22 bank accounts, with one row selected. The selected row contains the following data:

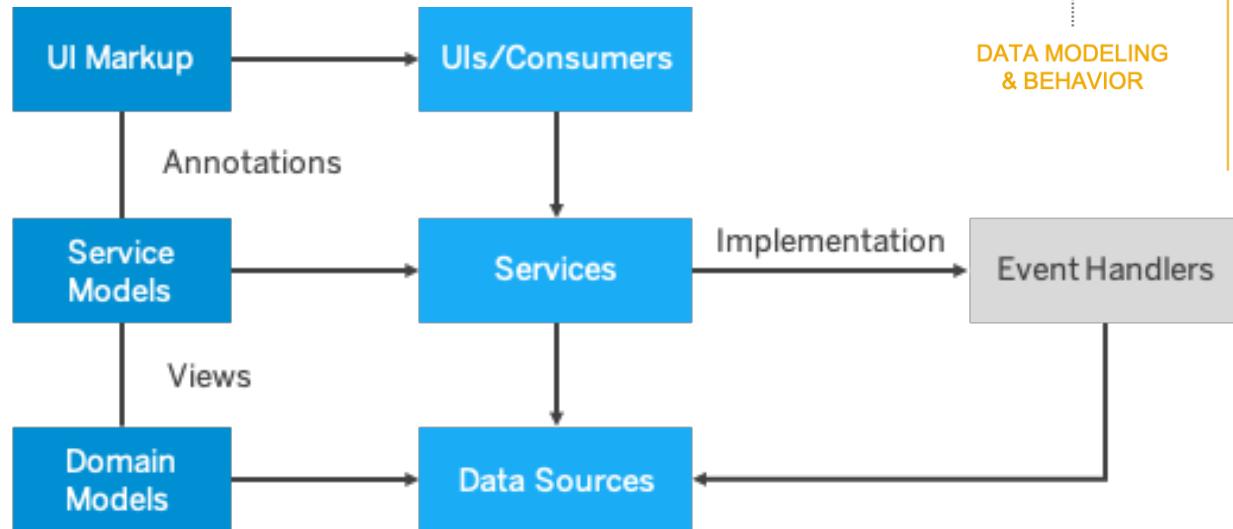
| Account Description | Account Currency | Account Number | Account Status | Account Type | Bank Key | Bank Country | IBAN |
|---------------------|------------------|----------------|----------------|-----------------------|----------------------------------|--------------|------|
| Bank 1 Giro | USD | 33333 | 02 (Active) | 09 (Checking Account) | 011000390 (Bank 1 - SAMPLE BANK) | US (USA) | |

Below the table, there are two lines of text: "Company Code: 1710 (Company Code 1710)" and "SWIFT/BIC: BOFAUS3M".

Source: [SAP](#)

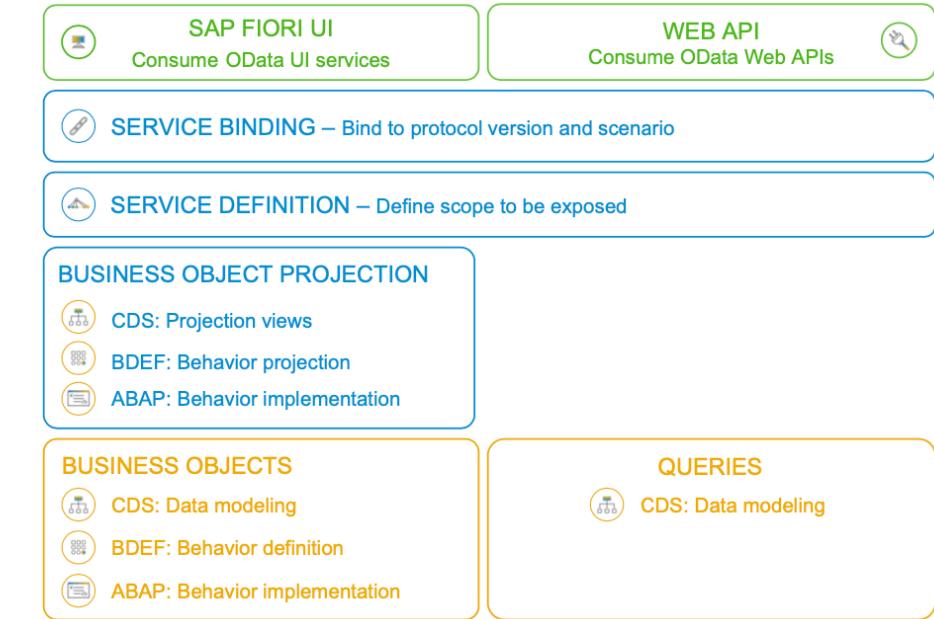
What has improved recently?

Framework Support – CAP/RAP



Legend

- █ CDS Models
- █ Generic Runtimes
- █ Custom Code



Source: [Screenshot left](#) / [Screenshot right](#)

What has improved recently?

Framework Support – CAP/RAP

```
using IncidentService as service from '../../../../srv/incidentservice';

annotate service.SafetyIncidents with @UI : {
    SelectionFields : [
        category_code,
        priority_code,
        incidentStatus_code
    ],
    LineItem      : [
        {
            $Type : 'UI.DataField',
            Value : title,
            Label : 'Incident Title',
        },
        {
            $Type : 'UI.DataField',
            Value : ...
        }, ],
    };
};

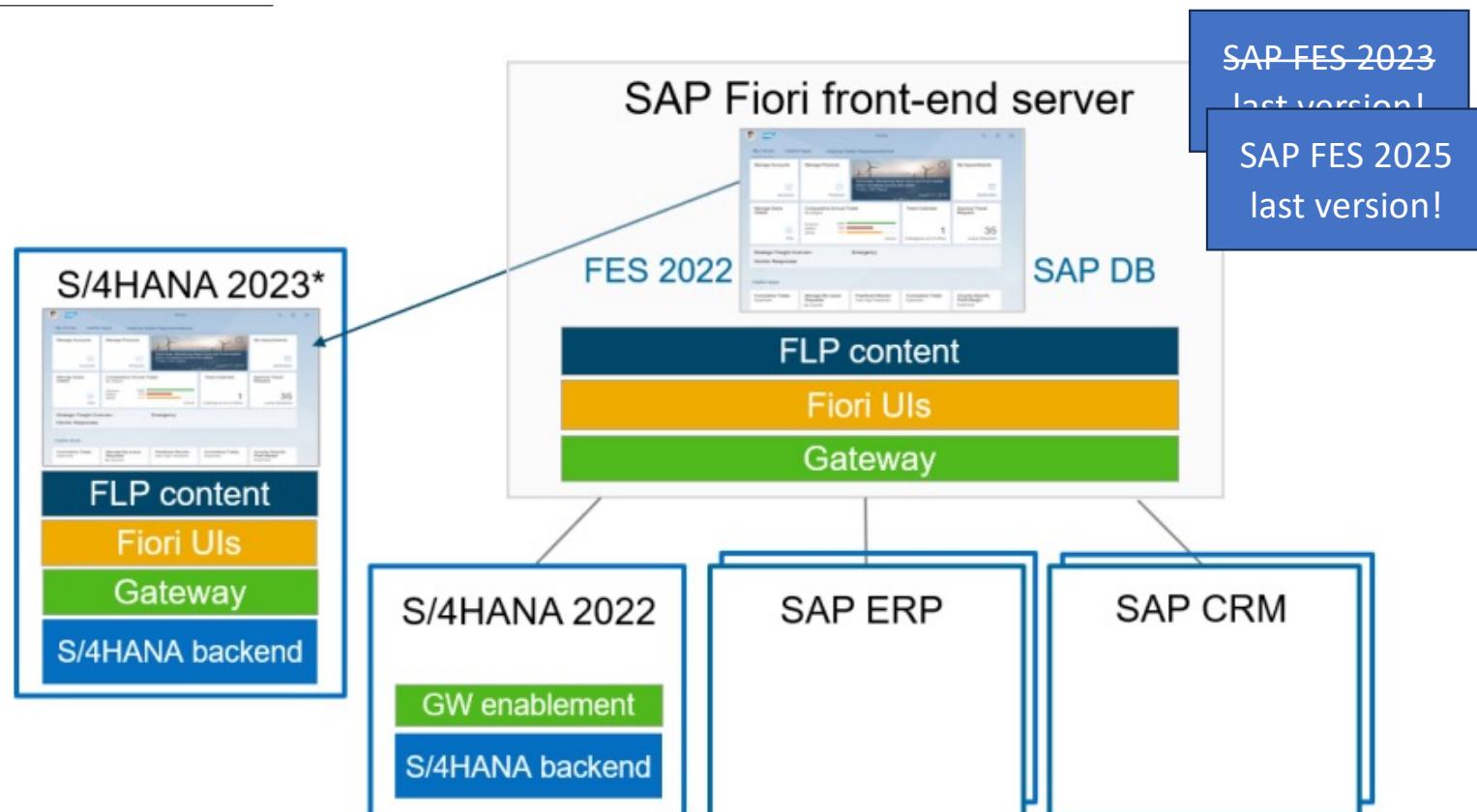
category_code
closeIncident
createdAt
createdBy
description
incidentFlow
```

```
*[HBP] ZXMASTERSEARCH X
1@Metadata.layer: #CUSTOMER
2
3@UI: {
4    presentationVariant: [{ sortOrder: [{ by: 'id', direction: #DESC } ] }]
5}
6annotate view zmastersearch with
7{
8@UI: {
9    lineItem: [ { position: 10, importance: #HIGH } ],
10   selectionField: [ { position: 10 } ]
11 }
12@EndUserText: { label: 'Typ',
13   quickInfo: 'Kunde, ABO oder EBE' }
14type;
15@UI: {
16    lineItem: [ { position: 20, importance: #HIGH } ],
17   selectionField: [ { position: 20 } ]
18 }
19@EndUserText: { label: 'ID',
20   quickInfo: 'ID' }
21id;
22@UI: {
23    lineItem: [ { position: 30, importance: #HIGH } ],
24   selectionField: [ { position: 30 } ]
25 }
26@EndUserText: { label: 'Name 1 / Bestellnummer' }
27txt1;
28@UI: {
29    lineItem: [ { position: 40, importance: #HIGH } ],
30   selectionField: [ { position: 40 } ]
31 }
32@EndUserText: { label: 'Name 2' }
33txt2;
34@UI: {
35    lineItem: [ { position: 50, importance: #MEDIUM } ],
36   selectionField: [ { position: 50 } ]
37 }
38@EndUserText: { label: 'Referenzkunde' }
39ref_cust;
40 }
```

Source: [Screenshot left](#) / [Screenshot right](#)

How to use the newest Technologies (UI5, RAP, CAP)

Deployment Options



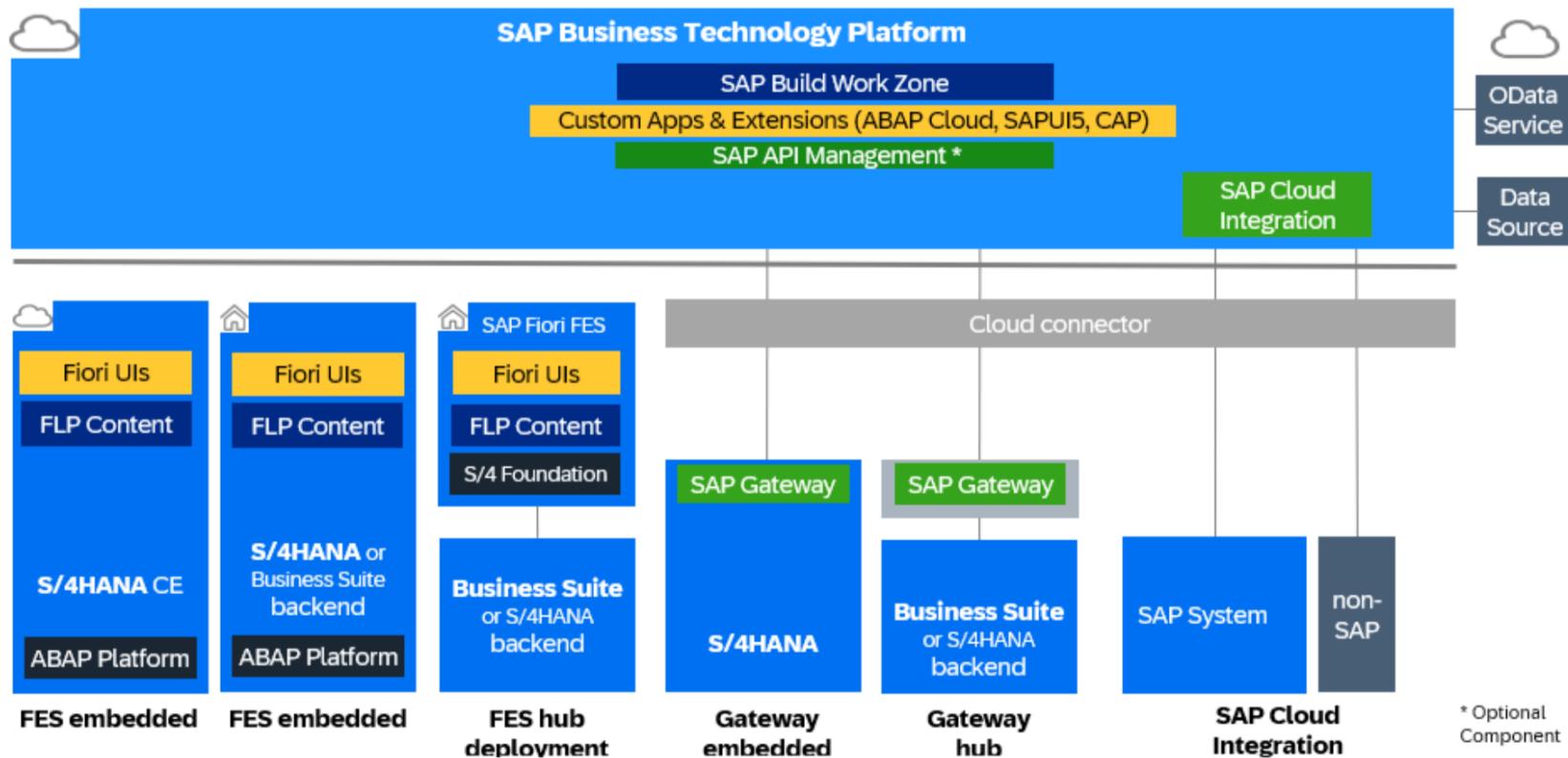
* Additional SAP S/4HANA system with a different version, e.g. 2023

Source:[SAP](#)

How to use the newest Technologies (UI5, RAP, CAP)

Deployment Options

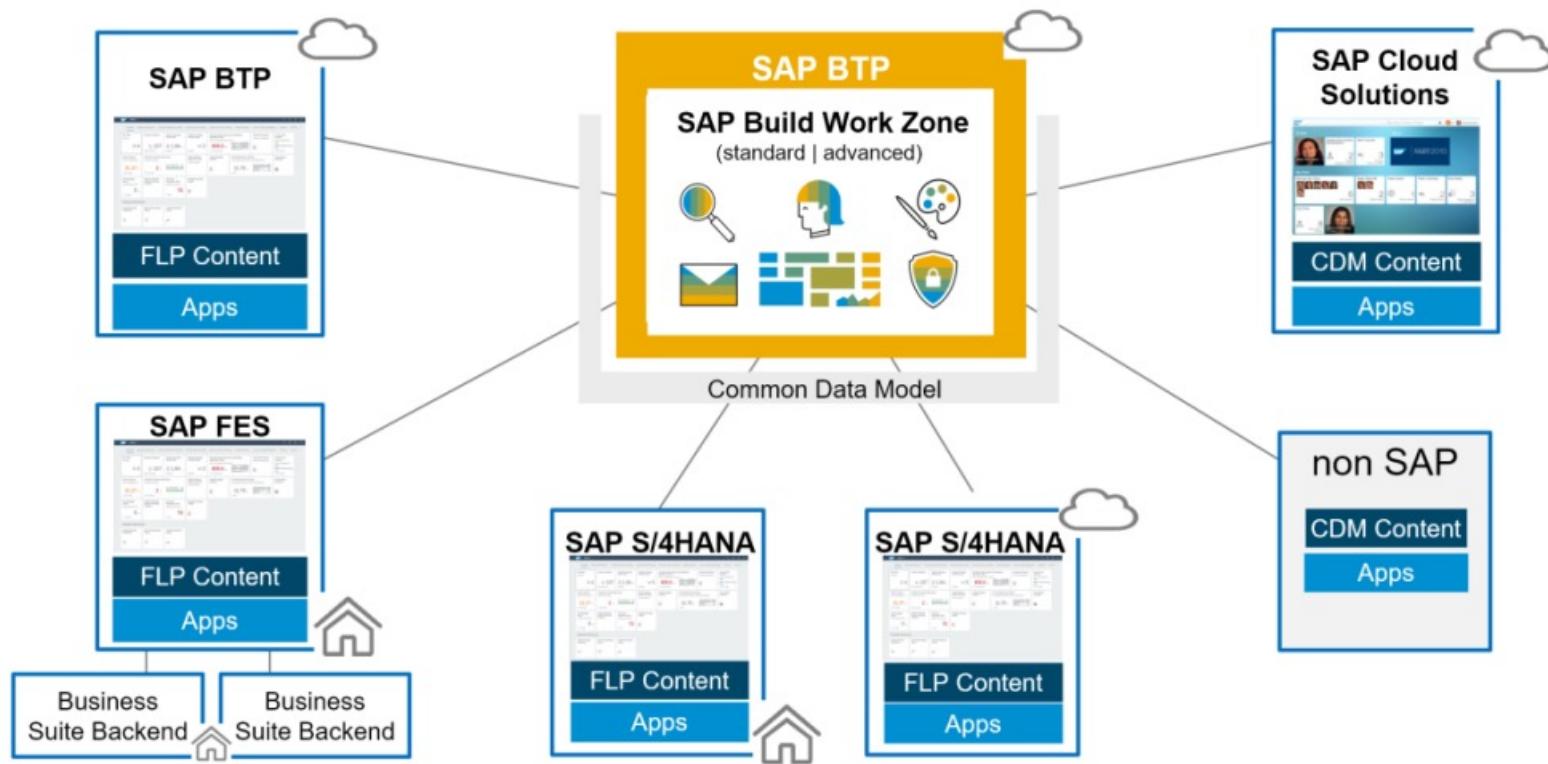
SAP Fiori Deployment – OData Provider Options



Source:[SAP](#)

How to use the newest Technologies (UI5, RAP, CAP)

Deployment Options



Wie kann man Fiori-Elemente mit RAP/CAP adaptieren?

Fiori elements Erfordert eine dedizierte Phase für ein tiefgehendes Verständnis und die Eingewöhnung.

Eine effektive Implementierung erfordert starke Unterstützung durch das Management:
Einen „Fiori-Elements-first“-Ansatz verfolgen.

RAP-Entwicklung (Restful Application Programming) priorisieren.

Den Einsatz von SAP-Fiori-Standardanwendungen betonen.

Das Fiori Launchpad nutzen, um klassische Transaktionen zu integrieren, wo dies sinnvoll/umsetzbar ist.

Qualifizierte UI5-Entwickler sind nur begrenzt verfügbar.

ABAP-Entwickler können UI-Änderungen umsetzen, ohne umfangreiches Frontend-Entwicklungswissen zu benötigen.

Wrap up

Where to Find More Information

- <https://learning.sap.com/>
- Documentation
 - SAPUI5
 - <https://ui5.sap.com>
 - RAP
 - https://help.sap.com/docs/ABAP_PLATFORM_NEW/fc4c71aa50014fd1b43721701471913d/289477a81eec4d4e84c0302fb6835035.html
 - CAP
 - <https://cap.cloud.sap/docs/>
 - Fiori Tools
 - https://help.sap.com/docs/SAP_FIORI_tools?locale=en-US
 - Flexible Programming Model
 - <https://sapui5.hana.ondemand.com/test-resources/sap/fe/core/fpmExplorer/index.html>
 - SAP Build Work Zone, standard edition (aka. Central Fiori Launchpad)
 - <https://help.sap.com/docs/build-work-zone-standard-edition?locale=en-US>
 - SAP Fiori Fronted End Server Deployment Options (FES)
 - <https://blogs.sap.com/2020/04/01/sap-fiori-deployment-options-and-sap-fiori-front-end-server-strategy-update-2020/>
 - <https://www.sap.com/docs/download/2018/02/f0148939-f27c-0010-82c7-eda71af511fa.pdf>