



UX122 – SAP Fiori UX for SAP S/4HANA: How This Affects Your Applications in SAP GUI



Speakers

Las Vegas, Sept 19 - 23

Uwe Klinger

Bangalore, October 5 - 7

Badari Nath J

Barcelona, Nov 8 - 10

Uwe Klinger



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Agenda

SAP Fiori Visual Theme for Classic Applications

Using the SAP Fiori Visual Theme with Classic Applications

Adaptation of SAP GUI Applications for SAP Fiori Visual Theme

Web Dynpro ABAP Specific Features

Summary and Outlook

SAP Fiori Visual Theme for Classic Applications

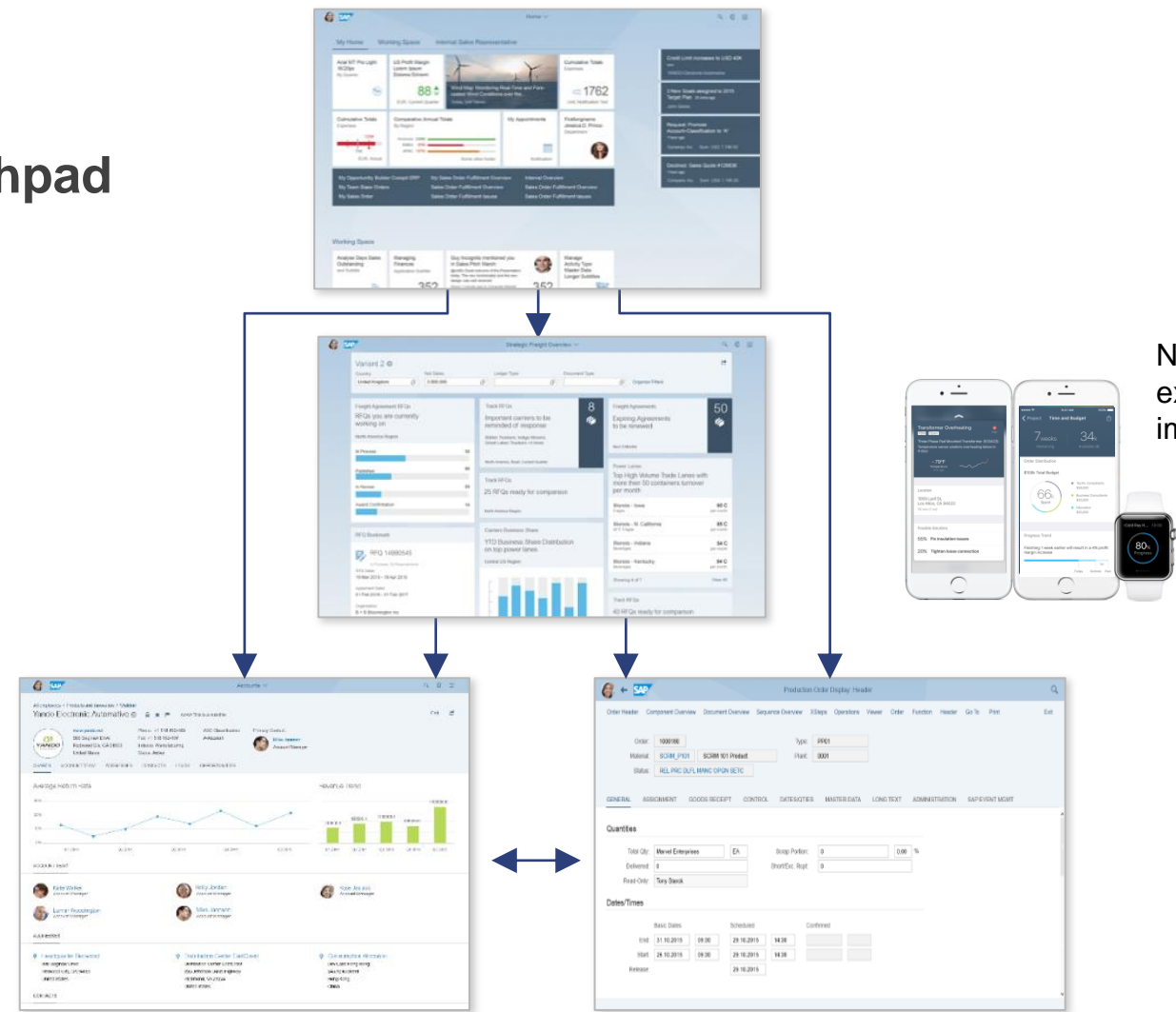
SAP Fiori: The User Experience of SAP S/4HANA

Single entry point via SAP Fiori launchpad

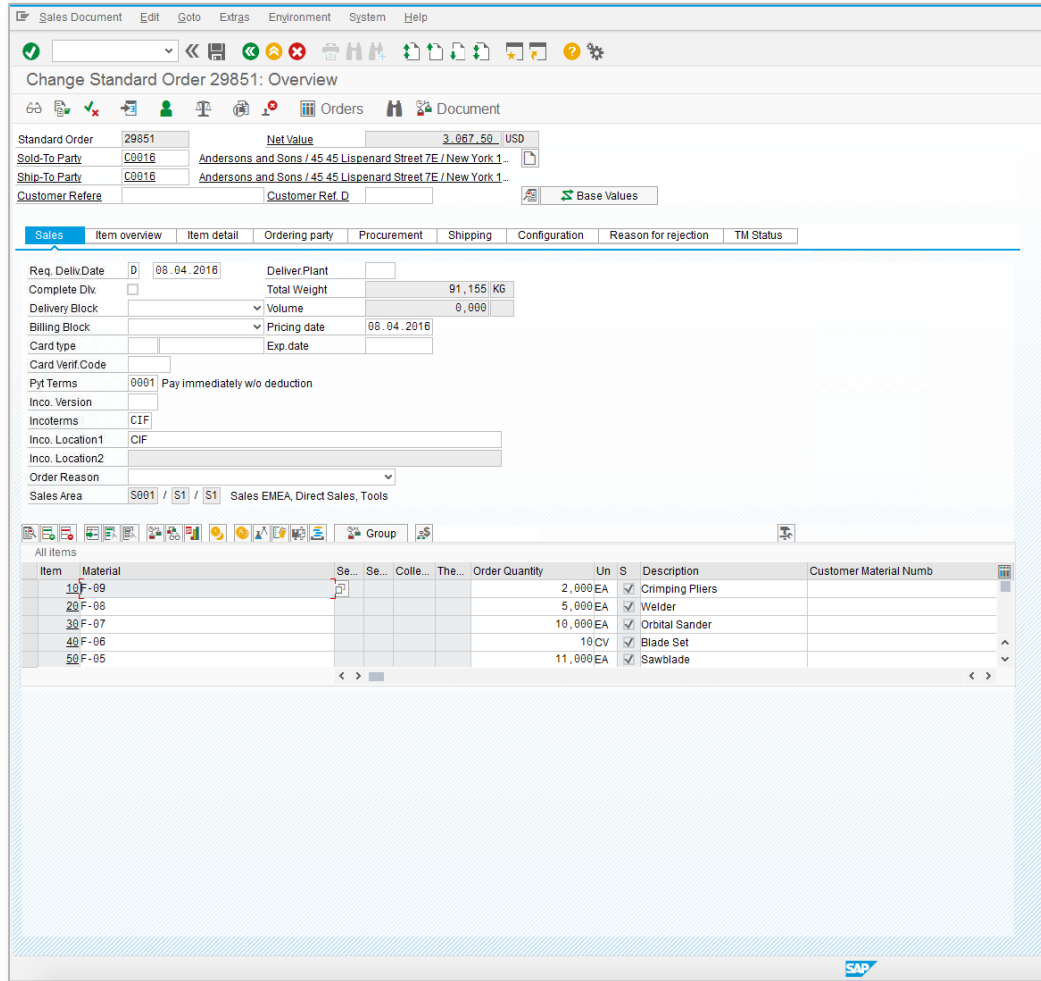
Domain-specific infos and actions

Enter details and explore in depth

This is the current state of planning and may be changed by SAP at any time.



Shortcomings of Classic Applications Design in SAP Fiori 1.0



Transaction VA02 using Blue Crystal theme in SAP GUI for Windows

- Different sizes of fonts and screen elements
- Control design and colors different
- Different icons
- No adoption of application design
- Different interaction

Definition of Classic Applications:

- SAP GUI, Web Dynpro ABAP

Elements of the SAP Fiori Visual Theme for Classic Applications

One visual design “Belize” for all Fiori applications: same colors, control design and form factor

Text toolbar
instead
of Icons

Right-aligned
labels

New icons

Condensed
table rows

Change Standard Order 29851: O...

Display Display Document Flow Status Overview Propose Items Header Output Preview Reject Document More ▾ Exit

Standard Order: 29851 Net Value: 3,067.50 USD

Sold-To Party: C0016 Andersons and Sons / 45 45 Lisenard Street 7E / New York 10013

Ship-To Party: C0016 Andersons and Sons / 45 45 Lisenard Street 7E / New York 10013

Customer Refere: Customer Ref. D: Z Base Values

Sales Item overview Item detail Ordering party Procurement Shipping Configuration Reason for rejection TM Status

* Requested Deliv.Date: D 08.04.2016 Delivering Plant: Cancellation Date:

All items

Item	Material	Sea...	Sea...	Collec...	Theme	Order Quantity	Un	S	Description	Customer Mater
<input type="checkbox"/>	10 F-09					2,000	EA	<input checked="" type="checkbox"/>	Crimping Pliers	
<input type="checkbox"/>	20 F-08					5,000	EA	<input checked="" type="checkbox"/>	Welder	
<input type="checkbox"/>	30 F-07					10,000	EA	<input checked="" type="checkbox"/>	Orbital Sander	
<input type="checkbox"/>	40 F-06					10	CV	<input checked="" type="checkbox"/>	Blade Set	
<input type="checkbox"/>	50 F-05					11,000	EA	<input checked="" type="checkbox"/>	Sawblade	
<input type="checkbox"/>								<input type="checkbox"/>		
<input type="checkbox"/>								<input type="checkbox"/>		
<input type="checkbox"/>								<input type="checkbox"/>		

Save Cancel

Merged Fiori header

Tab strips with SAP
Fiori visualization

New footer with
processing and
closing actions,
e.g., **Save**

Demo: Create Sales Order

SAP Fiori Launchpad - Change Standard Order 29851: O...

Display | Display Document Flow | Status Overview | Propose Items | Header Output Preview | Reject Document | More | Exit

Standard Order: 29851 | Net Value: 3,067.50 USD

Sold-To Party: C0016 | Andersons and Sons / 45 45 Lispenard Street 7E / New York 10013

Ship-To Party: C0016 | Andersons and Sons / 45 45 Lispenard Street 7E / New York 10013

Customer Refere: | Customer Ref. D: | Base Values

Sales | **Item overview** | Item detail | Ordering party | Procurement | Shipping | Configuration | Reason for rejection | TM Status

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Item	Material	Sea...	Sea...	Collec...	Theme	Order Quantity	Un	S	Description	Customer Matei
<input type="checkbox"/> 10	F-09					2,000	EA	<input checked="" type="checkbox"/>	Crimping Pliers	
<input type="checkbox"/> 20	F-08					5,000	EA	<input checked="" type="checkbox"/>	Welder	
<input type="checkbox"/> 30	F-07					10,000	EA	<input checked="" type="checkbox"/>	Orbital Sander	
<input type="checkbox"/> 40	F-06					10	CV	<input checked="" type="checkbox"/>	Blade Set	
<input type="checkbox"/> 50	F-05					11,000	EA	<input checked="" type="checkbox"/>	Sawblade	
<input type="checkbox"/>								<input type="checkbox"/>		
<input type="checkbox"/>								<input type="checkbox"/>		
<input type="checkbox"/>								<input type="checkbox"/>		

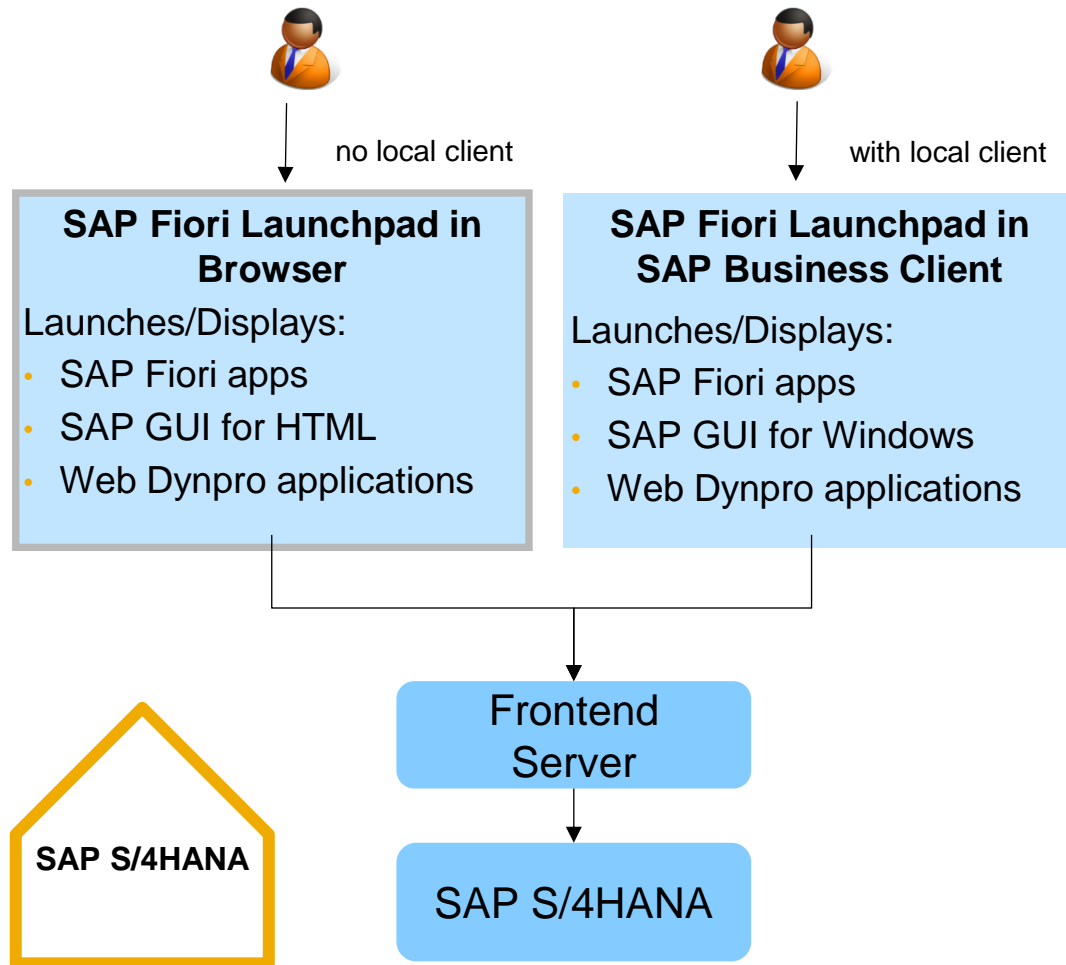
Save Cancel

Transaction VA02 using Belize theme in Fiori launchpad

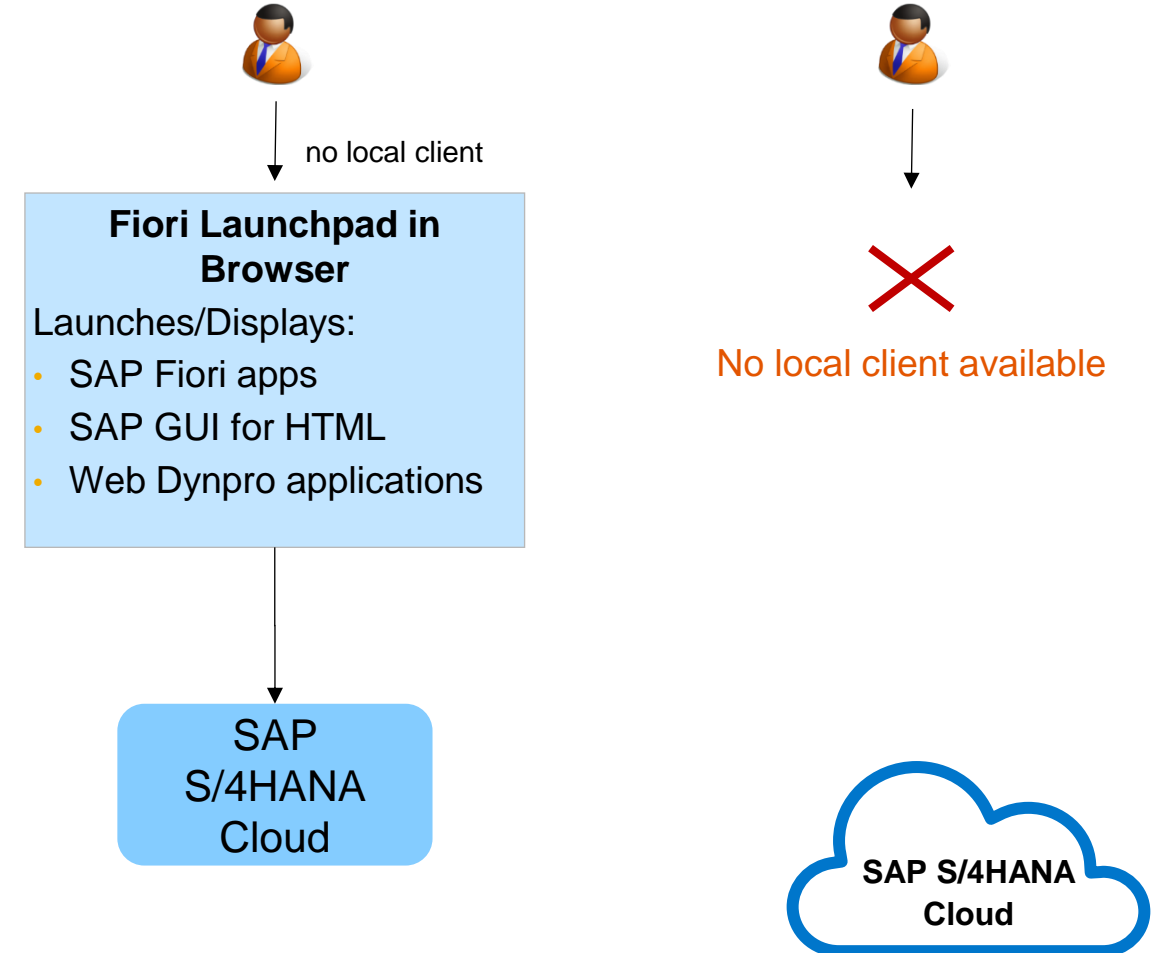
Using the SAP Fiori Visual Theme with Classic Applications

Planned Client Options for SAP S/4HANA

SAP S/4HANA



SAP S/4HANA Cloud



This is the current state of planning and may be changed by SAP at any time.

Belize Support in SAP GUI for Windows / SAP Business Client

Overall goal: Offer consistent Belize theme in all SAP GUIs / SAP Business Client

New SAP GUI / SAP Business Client releases introduce Belize functionality:

- **SAP GUI for Windows 7.50 / SAP Business Client 6.5 (planned in Q2/2017)**
 - SAP GUI for Windows 7.50 with Belize theme showing all features SAP GUI for HTML presently has
 - SAP Business Client 6.5 with Belize theme embedding SAP GUI for Windows 7.50
 - Combined shipment on one installation media

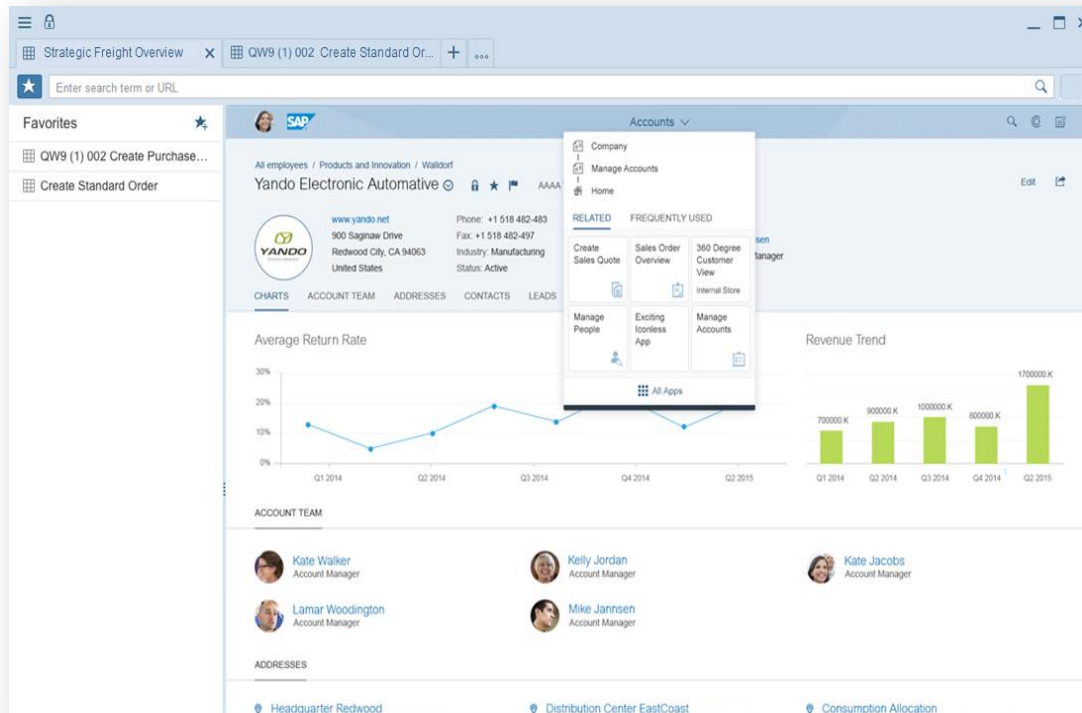
Recommendations:

- SAP GUI for HTML is the recommended SAP GUI for running Belize theme (complete feature set)
- For a full, native Belize experience wait for SAP GUI for Windows 7.50 / SAP Business Client 6.5

SAP Business Client 6.5 – Embedding Scenarios (Preview)

Fiori launchpad and Fiori apps on dedicated tab SAP GUI for Windows 7.50

- Full shell header including SAP Fiori launchpad functionality (e.g. Me Area, branding, search, etc.)
- Minimal shell header including *Back* button, branding and title
- For other functions, switch to FLP tab



The screenshot shows the SAP GUI for Windows 7.50 interface for the 'Create Standard Order: Overview' transaction. The top header includes a search bar and a 'Favorites' list with 'QW9 (1) 002 Create Purchase...' and 'Create Standard Order'. The main content area displays a form for creating a standard order, with fields for 'Rush Order', 'Sold-to Party', 'Ship-to Party', 'PO Number', 'PO Date', 'Reg. deliv. date', 'Delivery block', 'Billing block', 'Payment card', 'Card verif. code', 'Payment terms', 'Inco. version', 'Inco. terms', 'Inco. location 1', 'Inco. location 2', 'Other reason', and 'Sales area'. The right sidebar shows 'Some Sidepanel Information'. The bottom of the screen has a 'Save' button and a 'Cancel' button.

Availability of the SAP Fiori Visual Theme for Classic Applications

Availability of SAP Fiori visual theme “Belize”

SAP GUI for HTML	Planned for SAP S/4HANA 1610/Cloud 1608
SAP GUI for Windows	Planned for SAP GUI for Windows 7.50 (*) in Q2/2017
Web Dynpro ABAP	Planned for NetWeaver 7.51 / SAP_UI 7.51
SAP Business Client	Planned for SAP Business Client 6.5 in Q2/2017

Usage of old themes

- Switch back to old theme possible (except SAP Fiori launchpad)
- All new features switched off
- **Please note:** SAP strongly recommends the use of the new SAP Fiori visual theme

(*) Belize theme only supported when connected to SAP S/4HANA system starting with SAP S/4HANA 1610 FPS2

SAP Recommendation to Add Custom Applications to SAP Fiori

Key and most-used applications



Create new SAPUI5-based Fiori applications

- Get full SAP Fiori experience
- Access to all SAP Fiori features

Remaining applications or as bridge solution



Adapt to SAP Fiori visual theme for Classic Applications

- Have same visual theme for all SAP S/4HANA applications
- Improve user design and experience of legacy applications
- Integrate applications into SAP Fiori launchpad
- Save development effort

Classic Applications in SAP Fiori vs. SAPUI5-based Applications

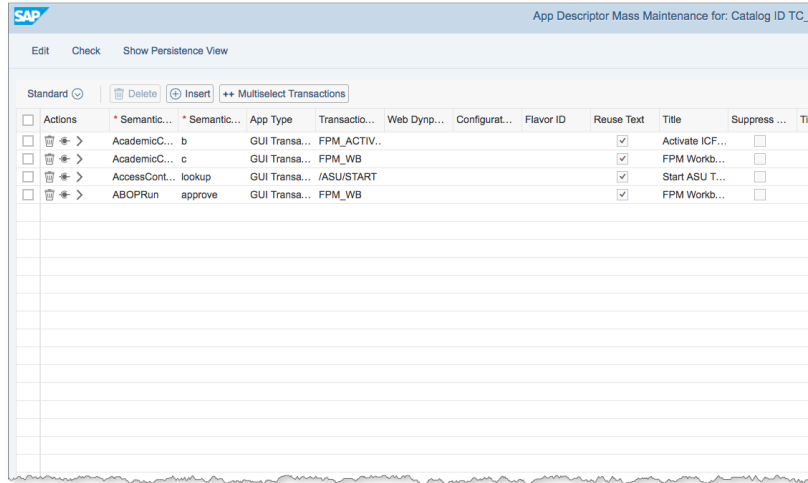
SAP Fiori Features Available for Classic Application

- Fiori launchpad integration
 - Fiori visual theme "Belize" including:
 - Colors, sizes, control design
 - Icons
 - Fiori header and footer
 - Text instead of icons
 - Fiori Specific Controls
- (Web Dynpro ABAP only)

SAP Fiori Features Not Available for Classic Applications

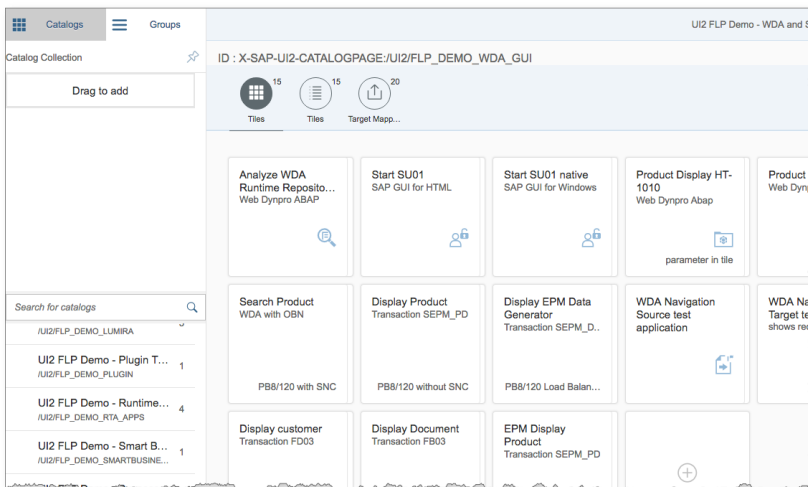
- Fiori interaction
- Fiori-specific controls
- Mobile devices support
- Responsive design
- Touch support
- Further Fiori features and innovations

Add Classic Applications via SAP Fiori Catalogs



1. Create App Descriptor

- Via Mass Maintenance Tool: WDA App SUI_TM_MM_APP
- For SAP GUI transactions
- For WDA applications



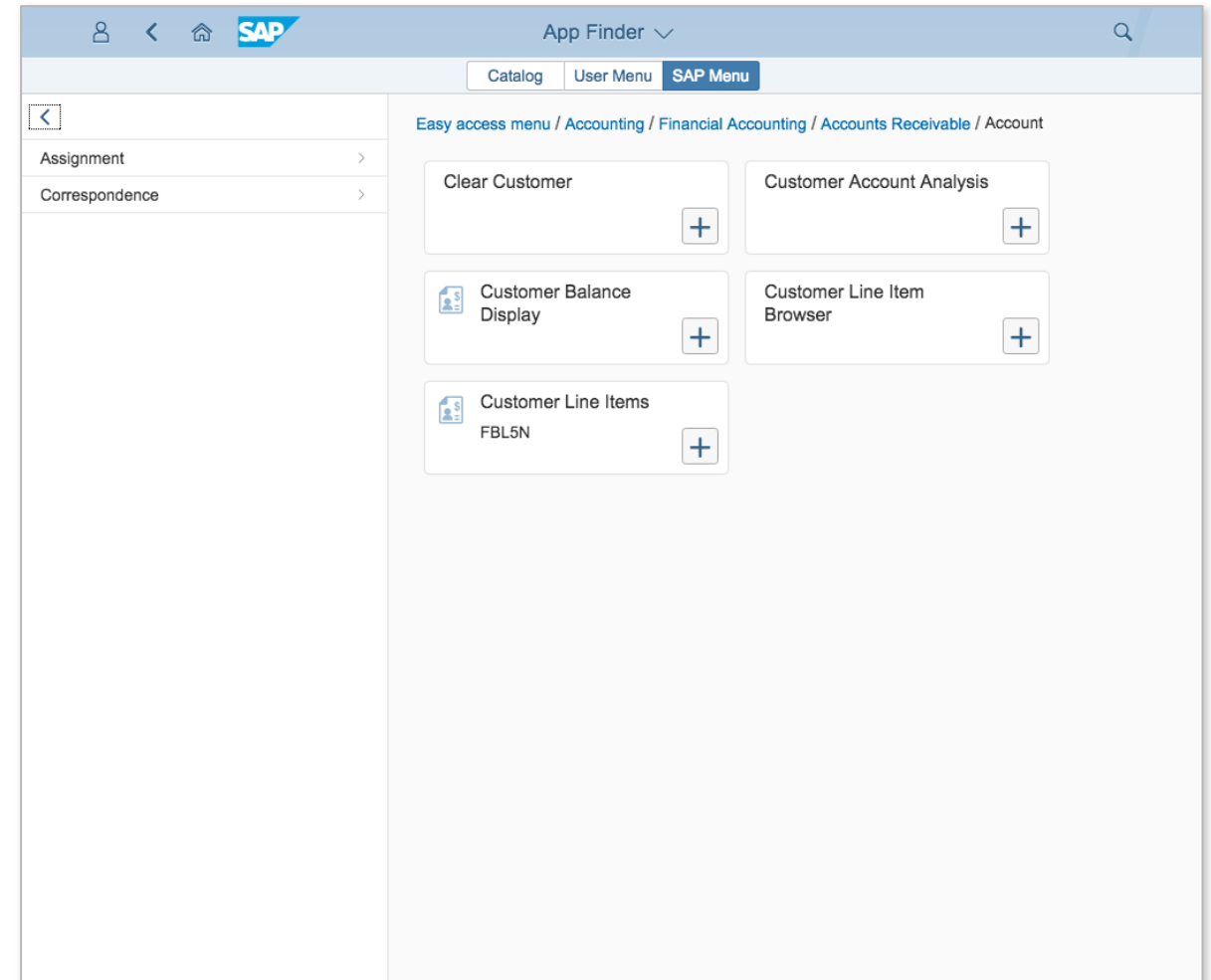
2. Add Applications to SAP Fiori Catalog

- Via SAP Fiori launchpad designer

Add Classic Application from SAP Menu and User Menu

App Finder

Browse through User Menu and SAP Menu to add Web Dynpro ABAP and SAP GUI applications to personal SAP Fiori launchpad



Adaptation of SAP GUI Applications to SAP Fiori Visual Theme

Why Adapt SAP GUI Applications to SAP Fiori?

Usability Issues That Are Emphasized by The New Theme

Causes of Usability Issues:

- Badly maintained texts for GUI functions
- Wrong usage of icons
- Large screens without resizing

Adoption is Required to Get Best User Experience

- Optimize header and footer toolbar
- Make use of new theme specific features
- Improve screen layout

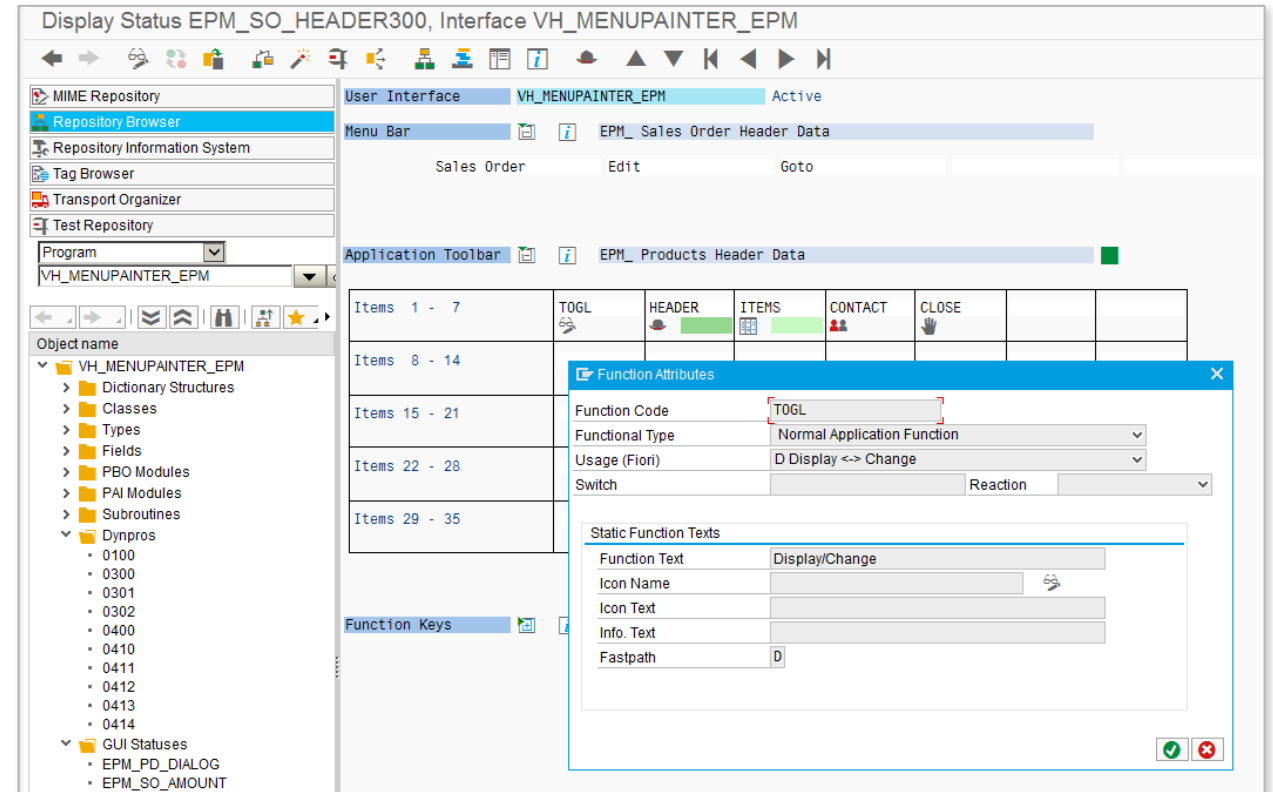
Please keep in mind when using SAP GUI for HTML:

- Functional restrictions → [SAP Note 314568](#)

Adaptation Tools

Usage of standard SAP tools including additional properties for the SAP Fiori visual theme

- Graphical Screen Painter
- Menu Painter
- ABAP Editor



Menu Painter in ABAP Workbench

Demo: Example Adaptation

Sales Order Edit Goto System Help

EPM Sales Order 0500000000

Amount

All Items

Item Pos	Product Id	Quantity	U...	Gross Amount	Curr...	Note
10	HT-1000	1,000	EA	1.137,64	EUR	EPM DG: SO ID 0500000000 Item 000000
20	HT-1001	2,000	EA	2.972,62	EUR	EPM DG: SO ID 0500000000 Item 000000
30	HT-1002	2,000	EA	3.736,60	USD	EPM DG: SO ID 0500000000 Item 000000
40	HT-1003	2,000	EA	3.927,00	EUR	EPM DG: SO ID 0500000000 Item 000000
50	HT-1007	3,000	EA	1.067,43	USD	EPM DG: SO ID 0500000000 Item 000000
60	HT-1010	2,000	EA	4.757,62	EUR	EPM DG: SO ID 0500000000 Item 000000
70	HT-1011	2,000	EA	5.471,62	JPY	EPM DG: SO ID 0500000000 Item 000000
80	HT-1030	2,000	EA	547,40	EUR	EPM DG: SO ID 0500000000 Item 000000
90	HT-1031	3,000	EA	1.017,45	GBP	EPM DG: SO ID 0500000000 Item 000000
100	HT-1032	3,000	EA	1.231,65	EUR	EPM DG: SO ID 0500000000 Item 000000

SAP >> Y13 (1) 000 Idcliy13 INS



EPM Sales Order 0500000000

Edit Amount More

Items Exit

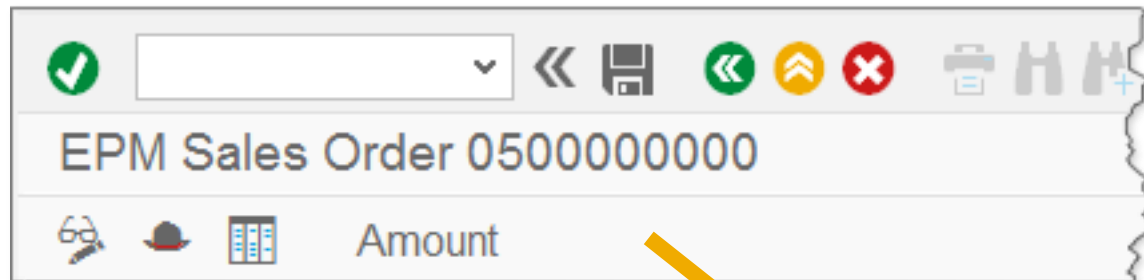
All Items (10)

	ITEM POS	PRODUCT ...	QUANTITY	QU...	GROSS AMOUNT	CUR...	NOTE	DETAIL
	10	HT-1000	1,000	EA	1.137,64	EUR	EPM DG: SO ID 0500000000	
	20	HT-1001	2,000	EA	2.972,62	EUR	EPM DG: SO ID 0500000000	
	30	HT-1002	2,000	EA	3.736,60	USD	EPM DG: SO ID 0500000000	
	40	HT-1003	2,000	EA	3.927,00	EUR	EPM DG: SO ID 0500000000	
	50	HT-1007	3,000	EA	1.067,43	USD	EPM DG: SO ID 0500000000	
	60	HT-1010	2,000	EA	4.757,62	EUR	EPM DG: SO ID 0500000000	
	70	HT-1011	2,000	EA	5.471,62	JPY	EPM DG: SO ID 0500000000	
	80	HT-1030	2,000	EA	547,40	EUR	EPM DG: SO ID 0500000000	
	90	HT-1031	3,000	EA	1.017,45	GBP	EPM DG: SO ID 0500000000	
	100	HT-1032	3,000	EA	1.231,65	EUR	EPM DG: SO ID 0500000000	

Application Adaptation: GUI Status

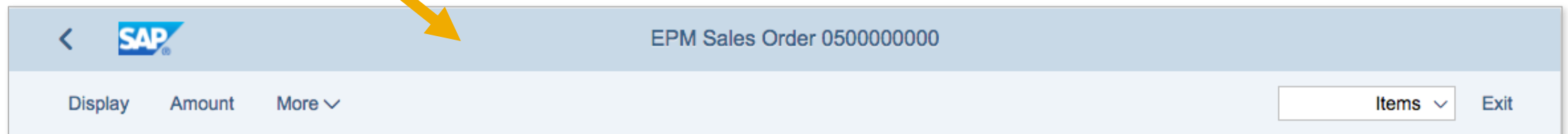
General

- Ensure self-explanatory texts
- Hide less important, and remove unwanted functions



Special Functions

- Closing actions (Footer)
- *Enter* button
- *Display/Change* button
- View switch
- Popup window buttons



Application Adaptation: Dynpro

Sizing and Spacing

- Remove unnecessary horizontal scrollbars
- Add proper spacing (e.g. above TabStrip, Tables)

Alignment

- Add missing label assignments
- Fix CheckBox & RadioButton alignment

Icons

- Correct use of status icons
- Semantic and consistent icon usage



Application Adaptation: Additional topics

SAP GUI for HTML Specific Restrictions

- See [SAP Note 314568](#)

Selection Screens

- Alignment of CheckBoxes and RadioButtons

Full Screen ALV / ABAP Lists

- Standard functions are still displayed as icons
- Recommendation for ABAP Lists: Convert to ALV Grid

Application Adaptation: New Features

Table Item Count

Table Navigation Button

<

SAP

EPM Sales Order 0500000000

Display

Amount

More ▾

Items ▾

Exit

All Items (10)

	ITEM POS	PRODUCT ...	QUANTITY	QU...	GROSS AMOUNT	CUR...	NOTE	DETAIL
<input type="radio"/>	10	HT-1000	1,000	EA	1.137,64	EUR	EPM DG: SO ID 0500000000 Item 0000000010	<input type="button" value="🔍"/>
<input checked="" type="radio"/>	20	HT-1001	2,000	EA	2.972,62	EUR	EPM DG: SO ID 0500000000 Item 0000000020	<input type="button" value="🔍"/>
<input type="radio"/>	30	HT-1002	2,000	EA	3.736,60	USD	EPM DG: SO ID 0500000000 Item 0000000030	<input type="button" value="🔍"/>
<input type="radio"/>	40	HT-1003	2,000	EA	3.927,00	EUR	EPM DG: SO ID 0500000000 Item 0000000040	<input type="button" value="🔍"/>
<input type="radio"/>	50	HT-1007	3,000	EA	1.067,43	USD	EPM DG: SO ID 0500000000 Item 0000000050	<input type="button" value="🔍"/>
<input type="radio"/>	60	HT-1010	2,000	EA	4.757,62	EUR	EPM DG: SO ID 0500000000 Item 0000000060	<input type="button" value="🔍"/>
<input type="radio"/>	70	HT-1011	2,000	EA	5.471,62	JPY	EPM DG: SO ID 0500000000 Item 0000000070	<input type="button" value="🔍"/>
<input type="radio"/>	80	HT-1030	2,000	EA	547,40	EUR	EPM DG: SO ID 0500000000 Item 0000000080	<input type="button" value="🔍"/>
<input type="radio"/>	90	HT-1031	3,000	EA	1.017,45	GBP	EPM DG: SO ID 0500000000 Item 0000000090	<input type="button" value="🔍"/>
<input type="radio"/>	100	HT-1032	3,000	EA	1.231,65	EUR	EPM DG: SO ID 0500000000 Item 0000000100	<input type="button" value="🔍"/>

+

-

Save

Cancel

Wrap-up: Adaptation Procedure

For all screens of your SAP GUI applications

1. Check header & footer
2. Check element alignment in content area
3. Check for structure of screen and unnecessary scrollbars
4. Directly solve issues using Menu Painter and Screen Painter



A guideline for adaptation will be available as part of SAP Fiori 2.0 welcome package.

Web Dynpro ABAP Specific Features

Highlights of SAP Fiori Visual Theme for Web Dynpro Applications

The screenshot displays two overlapping SAP Fiori Web Dynpro application windows. The background window, titled 'Purchase Order: 300004538, DelBont Industries', shows a 'Purchase Order Details' view with sections for 'General Data' and 'Processing Data'. The foreground window, titled 'Search: Purchase Orders', shows a search results table for 'Items (100 Purchase Orders)'. The table includes columns for Purchase Order ID, Supplier ID, Supplier Name, Lifecycle Status, Approval Status, Currency, and Total Gross Value.

	Purchase Order ID	Supplier ID	Supplier Name	Lifecycle Status	Approval Status	Currency	Total Gross ...
<input type="checkbox"/>	300004291	100000002	DelBont Industries	New	Initial	EUR	2.153,64
<input type="checkbox"/>	300004305	100000002	DelBont Industries	New	Initial	EUR	8.150,94
<input type="checkbox"/>	300004312	100000002	DelBont Industries	New	Initial	EUR	3.772,29
<input type="checkbox"/>	300004316	100000002	DelBont Industries	New	Initial	EUR	3.986,25
<input type="checkbox"/>	300004521	100000002	DelBont Industries	New	Initial	EUR	12.493,73
<input type="checkbox"/>	300004530	100000002	DelBont Industries	New	Initial	EUR	8.150,94
<input type="checkbox"/>	300004538	100000002	DelBont Industries	New	Initial	EUR	2.510,26
<input type="checkbox"/>	300004541	100000002	DelBont Industries	New	Initial	EUR	2.153,64
<input type="checkbox"/>	300004555	100000002	DelBont Industries	New	Initial	EUR	8.150,94
<input type="checkbox"/>	300004562	100000002	DelBont Industries	New	Initial	EUR	3.772,29
<input type="checkbox"/>	300004566	100000002	DelBont Industries	New	Initial	EUR	3.986,25
<input type="checkbox"/>	300004771	100000002	DelBont Industries	New	Initial	EUR	12.493,73

- Fiori control design, colors and sizes
- Fiori filter bar
- Fiori value help
- Fiori message popover
- New icons

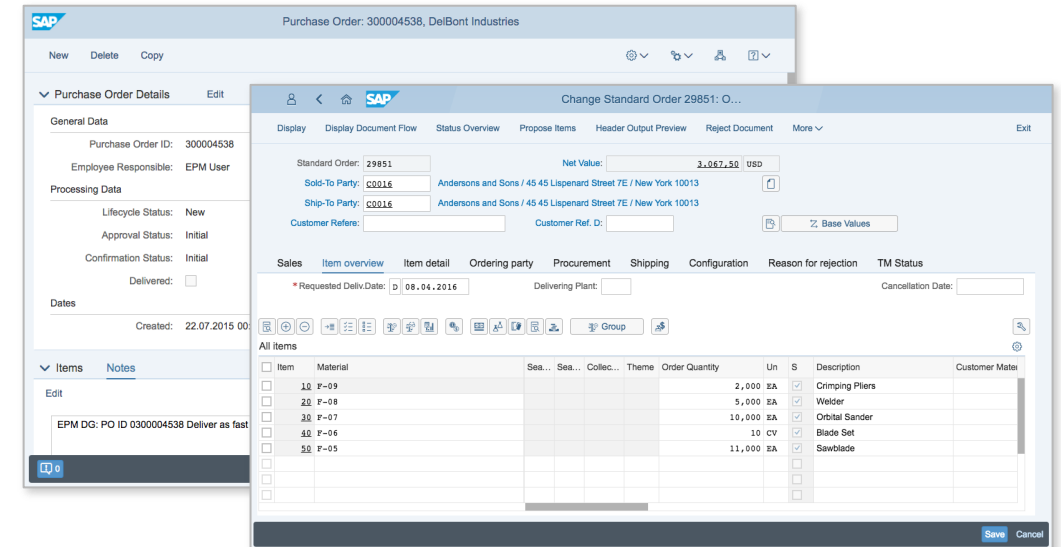
Demo: Web Dynpro ABAP

[illegible]

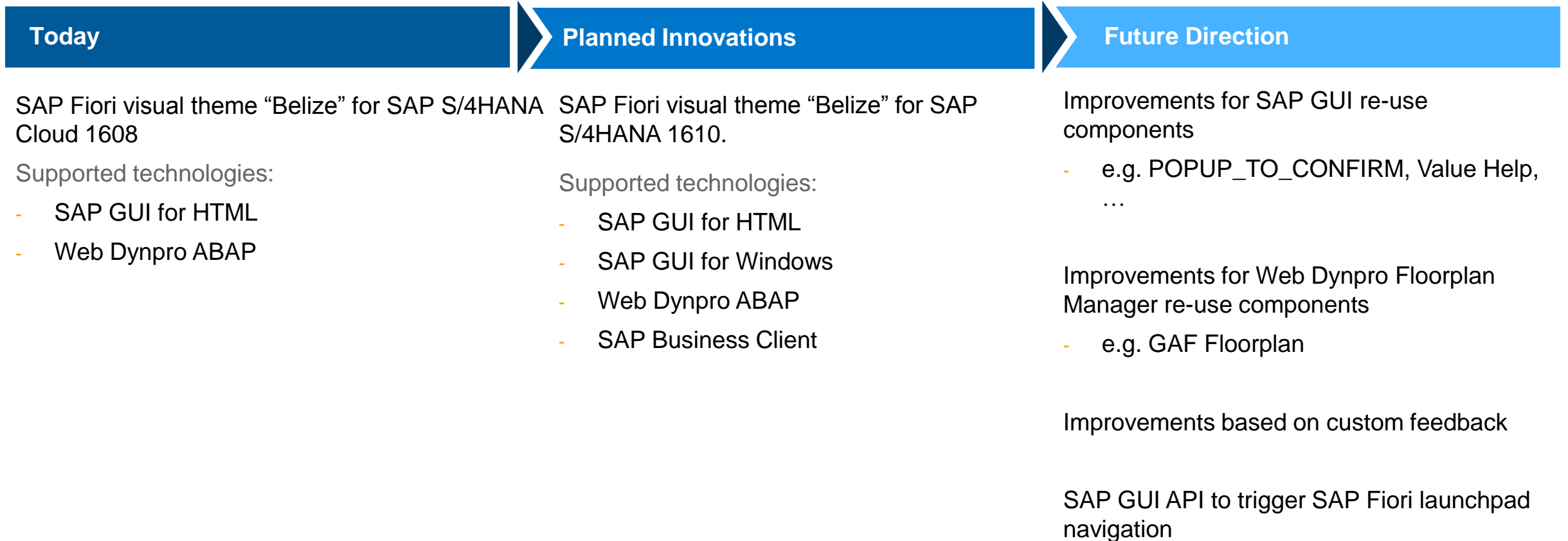
Summary and Outlook

Summary

- SAP Fiori is the UI for SAP S/4HANA
- Classic applications support the SAP Fiori visual theme but not all Fiori features
- The theme will be supported for SAP GUI for HTML/Windows and Web Dynpro ABAP
- Adaptation of customer and partner applications to the new theme is strongly recommended



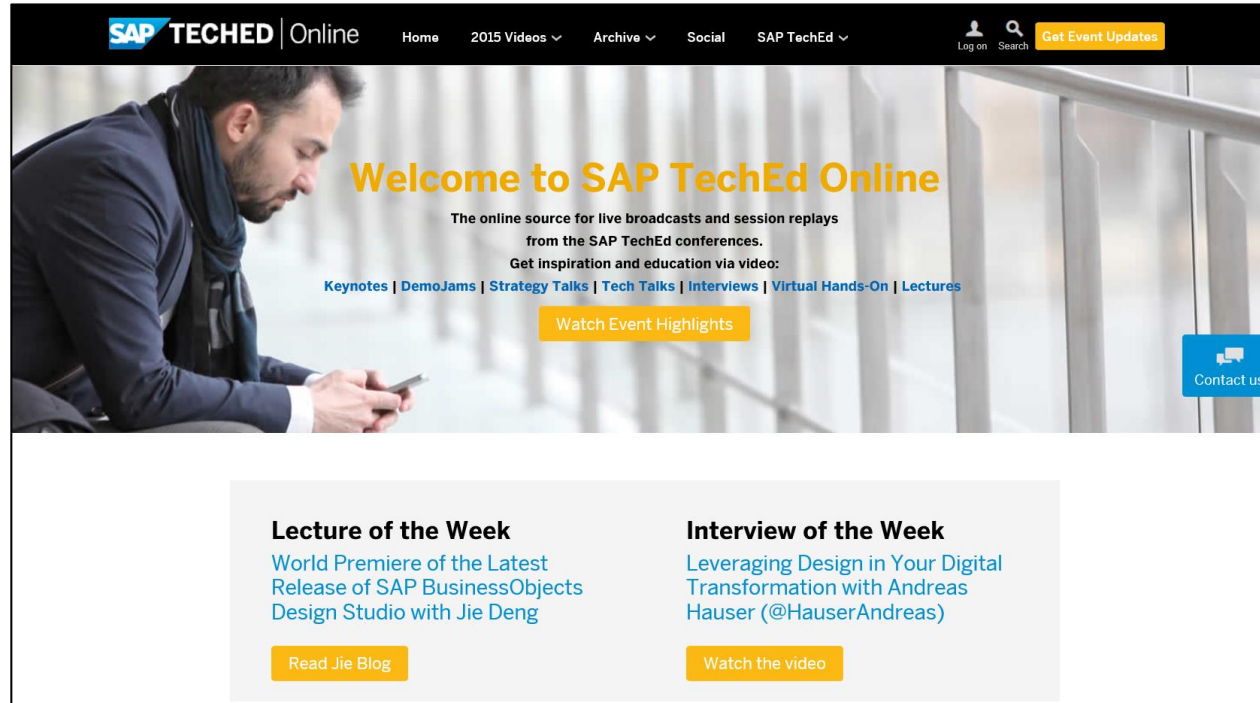
Product Road Map



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Further information



Related SAP TechEd sessions:

TEC116	UX/UI Strategy for SAP S/4HANA
UX101	UI Technologies and Clients from SAP in Times of SAP Fiori and SAP S/4HANA
UX124	Update on SAP Business Client and the SAP GUI Interface Family
UX719	Speed Up Integration of Web Dynpro for ABAP into SAP Fiori launchpad
UX603	Create a Theme Using UI Theme Designer Like a Pro
UX717	Making Custom Themes Future-Ready

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