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# FIORI UX ROLL-OUT SESSION

## SAP UI5 1.42

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Global Design Team  
September 28, 2016



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# SAP FIORI DESIGN GUIDELINES

## NEW INTERNAL AND EXTERNAL VERSIONS

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# INTERNAL AND EXTERNAL UPDATES

## UPCOMING RELEASES

### INTERNAL RELEASE 1.42

Launch: September 30, 2016

#### Highlights:

- Header Toolbar (new control)
- Tree (new control)

What's new in guideline version 1.42?

### VISIT US

<https://ux.wdf.sap.corp/fiori-design/>

### EXTERNAL RELEASE 1.32-1.38

Launch: September 30, 2016



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# SAP FIORI DESIGN STENCILS (AXURE RP)

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Sebastian Hubl & Carolin Seel

# SAP FIORI DESIGN STENCILS (AXURE RP)

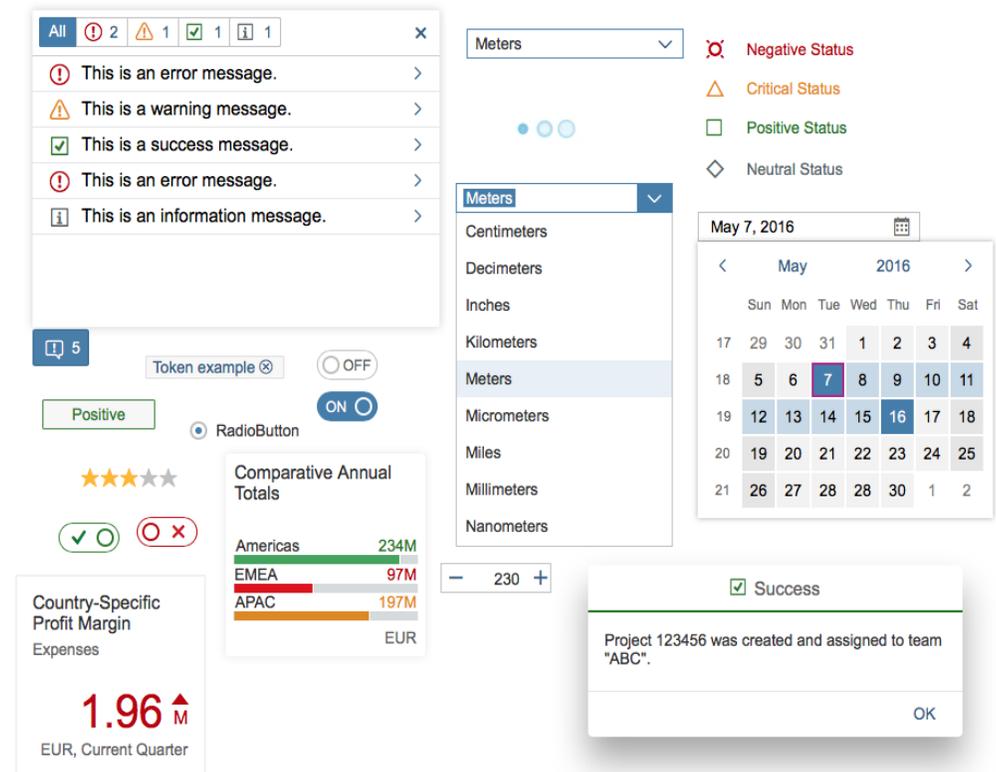
## SAP UI5 1.42 VERSION

- Latest Version of Axure stencils in the Belize Design available to download: <https://ux.wdf.sap.corp/fiori-design-web/resources/downloads/>
- Axure stencils in the new Belize Design
  - New Stencils: Visual Filter Bar, Analytic List Page, Variant Management, Copilot, Carousel, Select Dialog, a new OVP variant and more...
- More than 650 stencils of various floorplans and controls

## SAP UI5 1.44 VERSION

- New stencils in progress – availability will be communicated via Fiori Design Newsletter
- New and updated stencils on the way
- Got your own stencils? Please share them in the Fiori Design Community [https://jam4.sapjam.com/groups/4nHIPjvAMWYhZrTqKELfT3/overview\\_page/69157](https://jam4.sapjam.com/groups/4nHIPjvAMWYhZrTqKELfT3/overview_page/69157)

## SAP Fiori Design Stencils



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# FIORI EMBEDDED ANALYTICS – ANALYTICAL LIST PAGE IMPLEMENTATION

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Anja, Emil

# FIORI EMBEDDED ANALYTICS – ANALYTICAL LIST PAGE IMPLEMENTATION - OVERVIEW

Powerful and flexible floorplan for lightweight and advanced data analysis – **Screenshot of current implementation**

**Global KPIs (XXXS / M Size)**

Standard \* | ACB 177,1 Tsd. | AMR 29,34 % | TAR 161,6 Tsd.

Zurücksetzen Filter

**Visual Filters**

nach Kurzbeschreibung in Tsd.' EUR

Month	Value (Tsd. EUR)
September	81,8
Oktober	50,9
Mai	20,1
Juni	20,0
Juli	29,8
August	55,2

Betrag in BuKrsWähr nach Buchungskreis in...

SAP SE	-24,0
SAP SE	41,0

Betrag in BuKrsWähr nach Kostenstelle

1000T002: %	
CC100: %	
Andere: %	

**Interactive Chart Area (for Analysis and controlling the Line-Item Table)**

EASi Line Items Buchungskreis

60 Tsd.  
40 Tsd.  
20 Tsd.  
0  
-20 Tsd.  
-40 Tsd.

SAP SE (0001) SAP SE (EASI)

Buchungskreis

■ Betrag in BuKrsWähr

EASi Line Items (334) Informationen anzeigen

	Projektdefinition	Bezeichnung	Sachkontenlangtext	FiscalPeriod	WBSDescription	Buchungsdatum	Buchungsbeleg	Betrag in BuKrsWähr
	EASIDEMO		Revenue adjustment (P&L correction)	009	Phase 7: Implementation	30.09.15	100000098	-72.000,00 EUR
	EASIDEMO		Unbilled Revenue (Accruals)	009	Phase 7: Implementation	08.09.15	100000024	-51.840,00 EUR
	EASIDEMO		Revenue adjustment (P&L correction)	010	Phase 9: Acceptance Testing	31.10.15	100000113	-28.500,00 EUR

**Actions, Filter Dialogue and Filter Type-Switch**

**Toolbar with View Switch for Chart/Table View**

**View on List Report Items**

# FIORI EMBEDDED ANALYTICS – ANALYTICAL LIST PAGE IMPLEMENTATION – LAYOUT VARIANTS

The image displays six layout variants for Fiori Embedded Analytics, arranged in a 2x3 grid. Each variant is annotated with labels for its components:

- Top Row (Hybrid View, Chart Only View, Table Only View):**
  - Hybrid View:** Features a 'Snapping Header' with 'Global actions', 'Page Variant Management, Global KPIs', and 'Visual Filter Bar'. Below is a 'Smart Chart' and a 'Table'.
  - Chart Only View:** Features a 'Snapping Header' with 'Global actions', 'Page Variant Management, Global KPIs', and 'Visual Filter Bar'. Below is a 'Smart Chart'.
  - Table Only View:** Features a 'Snapping Header' with 'Global actions', 'Page Variant Management, Global KPIs', and 'Visual Filter Bar'. Below is a 'UI Table'.
- Bottom Row (Hybrid View, Chart Only View, Table Only View):**
  - Hybrid View:** Features a 'Snapping Header' with 'Global actions', 'Page Variant Management, Global KPIs', and 'Filter Bar'. Below is a 'Smart Chart' and a 'UI Table'.
  - Chart Only View:** Features a 'Snapping Header' with 'Global actions', 'Page Variant Management, Global KPIs', and 'Filter Bar'. Below is a 'Smart Chart'.
  - Table Only View:** Features a 'Snapping Header' with 'Global actions', 'Page Variant Management, Global KPIs', and 'Filter Bar'. Below is a 'UI Table'.

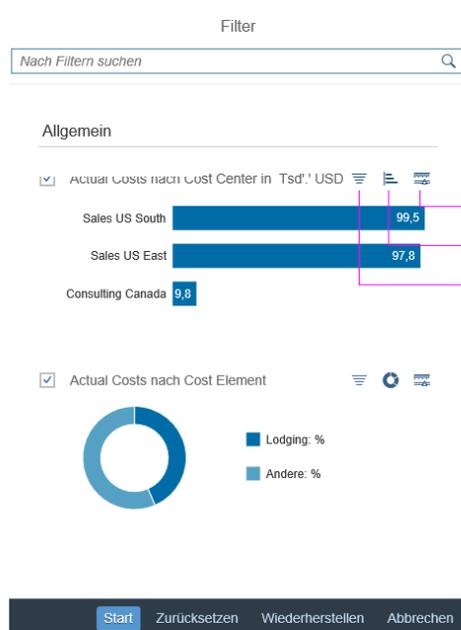
On the left side, a sidebar contains two key controls:

- Filter Type Switch:** Located at the top of the sidebar, it allows switching between different filter types.
- Content View Switch:** Located below the filter switch, it allows switching between different content views (e.g., Hybrid, Chart Only, Table Only).

At the bottom left, there is a currency selection menu showing values in 'BuKrsWährng' (EUR) with options like -72.000,00, -51.840,00, and -28.500,00.

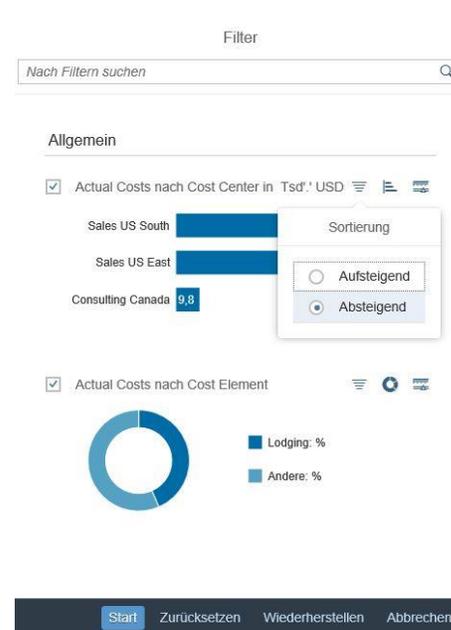
# FIORI EMBEDDED ANALYTICS – ANALYTICAL LIST PAGE IMPLEMENTATION – VISUAL FILTER DIALOG

## Visual Filter – End User Configuration

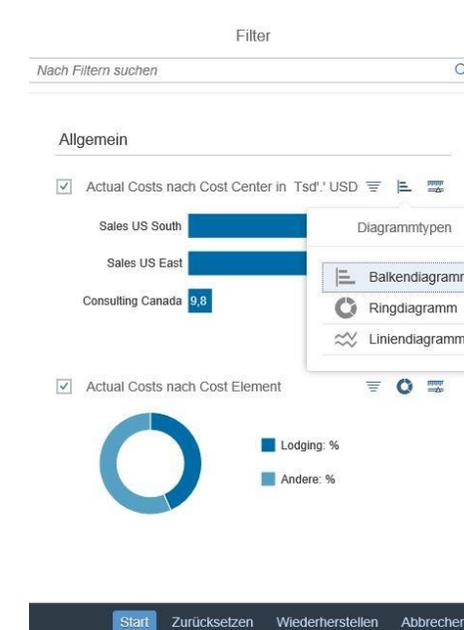


Change Measure  
Change Chart Type  
Change Sorting

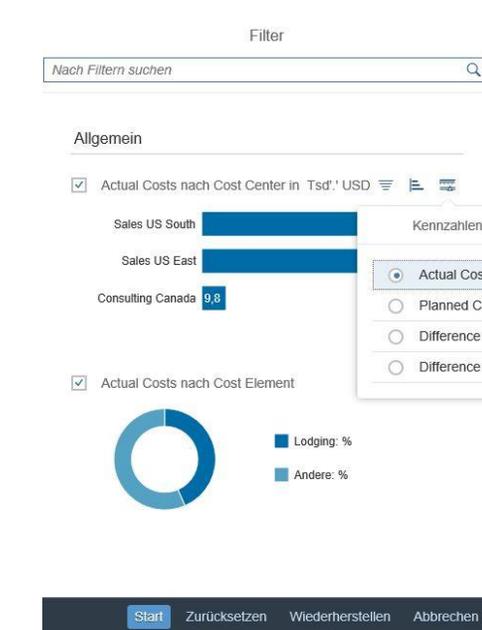
## Change Sorting



## Change Chart Type



## Change Measure



# EMBEDDED ANALYTICS – ANALYTICAL LIST PAGE IMPLEMENTATION - SUMMARY

## IMPLEMENTATION 1.42

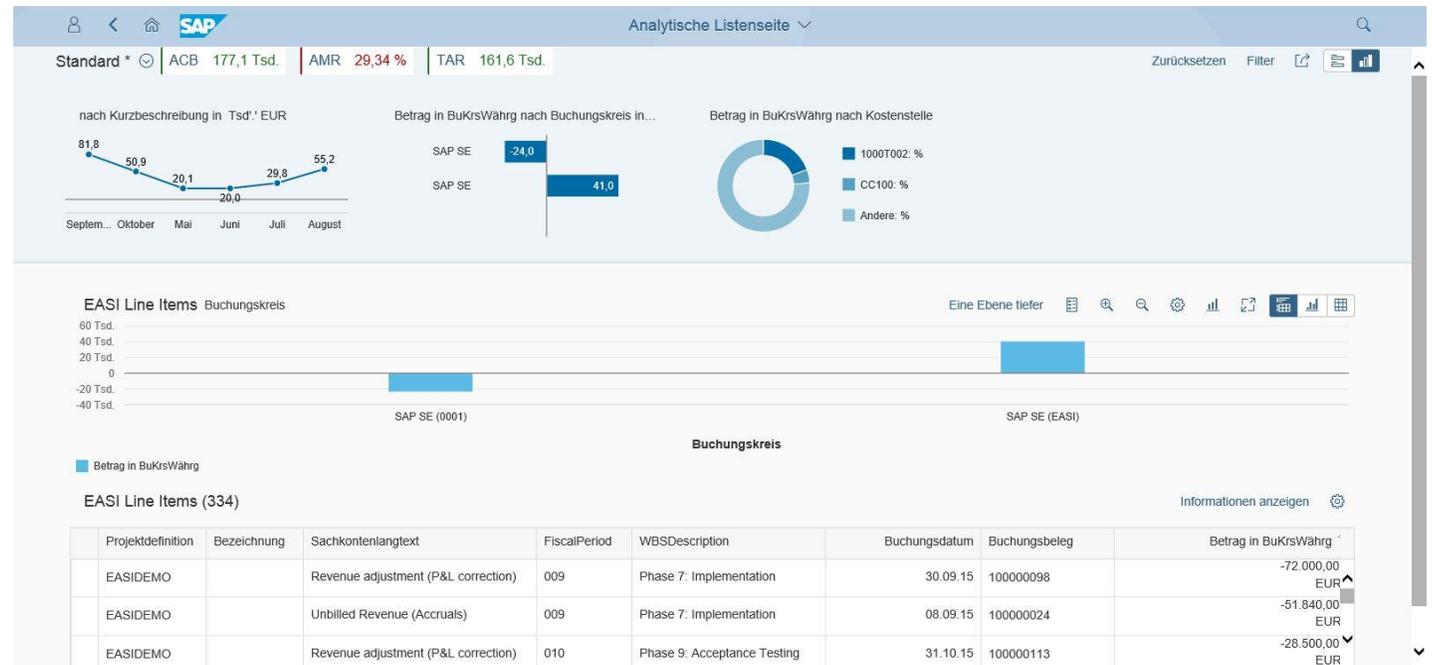
- can be used from applications to create designs, to explore aLP, to prepare/test queries and KPI configurations
- version 1.44 will be ready for delivery to customers
- Development contact: Tzanko Stefanov, Sandeep R S

## SEE IT IN ACTION

- 1.43 Snapshot

<http://veui5infra.dhcp.wdf.sap.corp:8080/sapui5-sdk-dist/test-resources/sap/suite/ui/generic/template/demokit/flpSandbox.html#alp-display>

Powerful and flexible floorplan for lightweight and advanced data analysis



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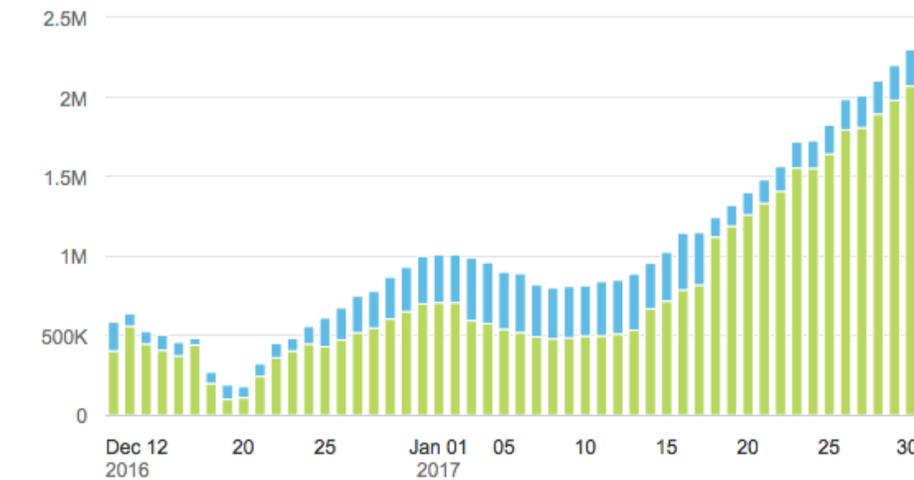
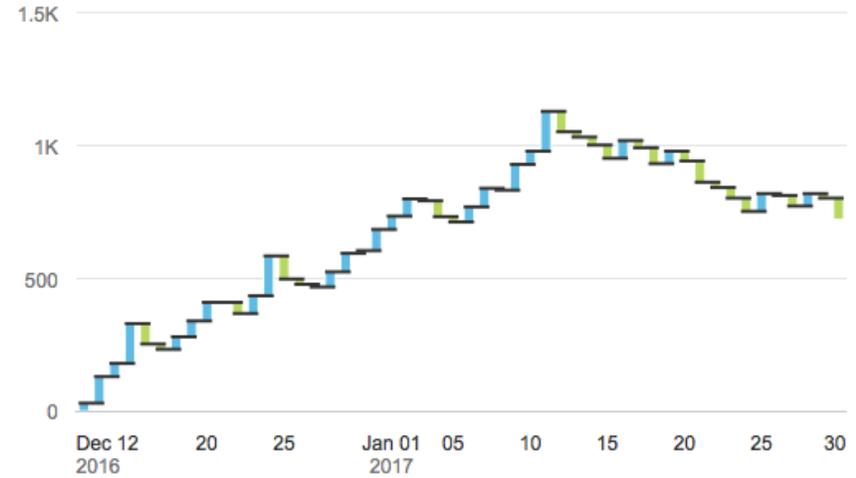
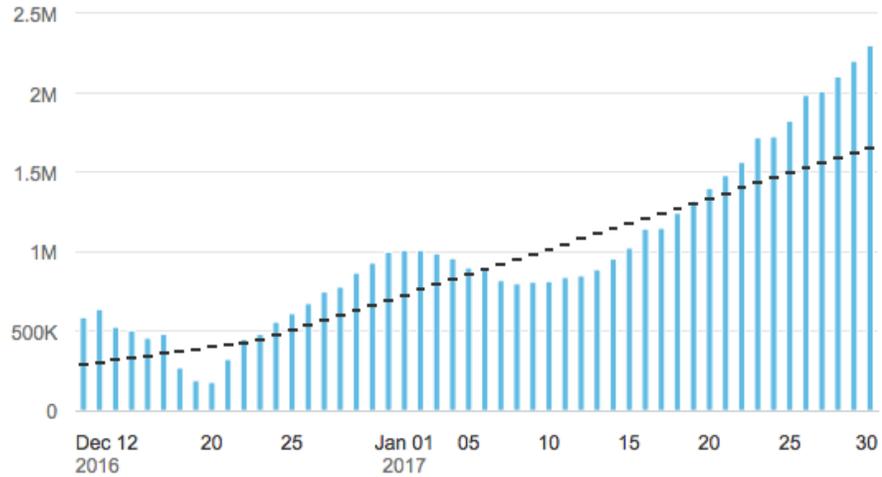
# VIZFRAME CHARTS IMPLEMENTATION

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Vincent Monnier

# TIME AXIS – NEW CHART TYPES

## IMPLEMENTATION



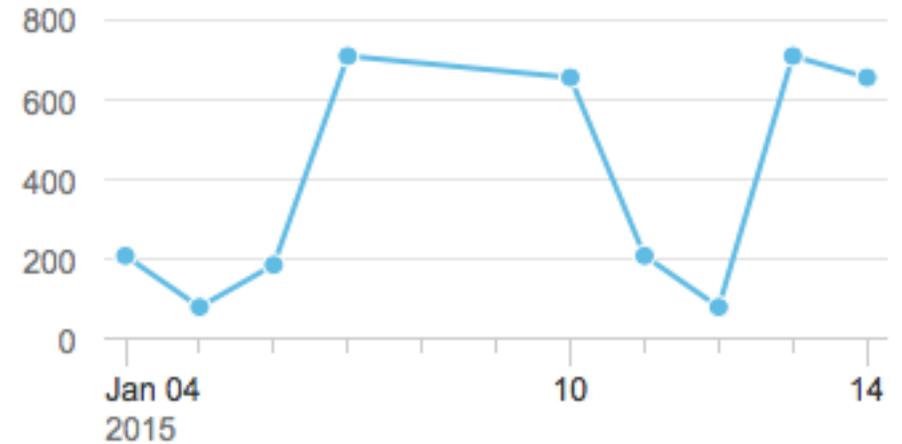
# TIME AXIS – FIRST & LAST DATE IMPLEMENTATION

## ISSUE

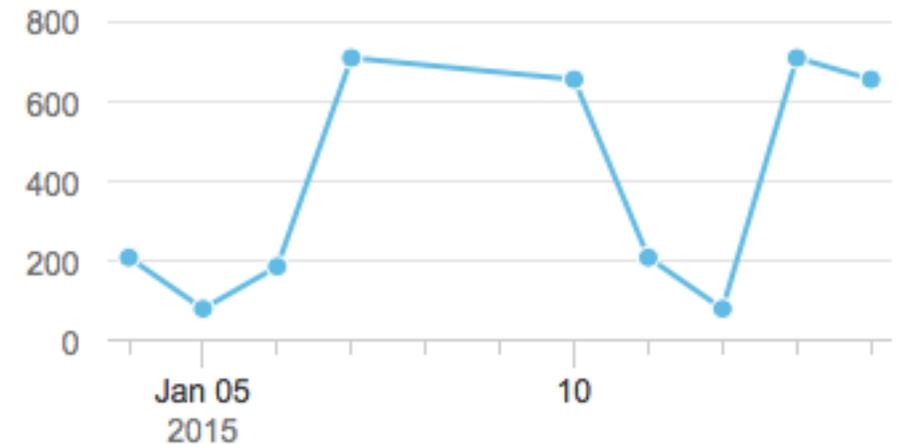
The first and last date are in most of the cases the most important information in the time axis.

By default, vizFrame will now show these first and last dates. But the developer can overwrite this default layout and continue to display only the dates with rounded numbers, like 5, 10, 15.

New Default Layout



Former Default Layout



# NO DATA INFORMATION IMPLEMENTATION

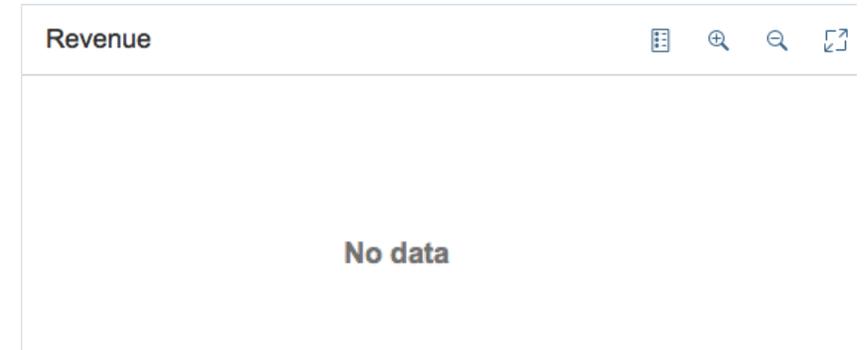
## ISSUE

When data set is empty, the chart now displays a “No data” message, consistent with the tables.

## NEXT STEPS / OUTLOOK

In next waves, we will provide a way, in smart chart, to customize these message

### “No data” in Chart



### “No data” in Table

<input type="checkbox"/>	Product Name	Category	Image
No data			

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# OTHER FEATURES

## IMPLEMENTATION

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FIORITECHP1-2237 - Analytical chart - Validate the correctness of dimension/measure feeded and updated

FIORITECHP1-3080 - Analytical chart - Provide access to drill stack and tooltip data for the Smart Chart

FIORITECHP1-2072 - Legend - Automatically use "display name" when rules are defined for one category item

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# SEE IT IN ACTION

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## ALL ABOUT TIME AXIS

In UI5 Explored: <http://veui5infra.dhcp.wdf.sap.corp:8080/sapui5-sdk-dist/explored.html#/sample/sap.viz.sample.TimeAxis/preview>

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# SMART TABLE IMPLEMENTATION

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Vincent Stebel

# PROPERTY IMPLEMENTATION

## GROUPING BY DEFAULT

There is a new property '*Group By*' to group the smart table by default if used with the analytical table (ALV).

<input type="checkbox"/>	Cost Center	Cost Element	Actual Costs
▼	Cost Center:  100-1000-undefined		
<input type="checkbox"/>	100-1000	400020	131.254
<input type="checkbox"/>	100-1000	400021	132.025
<input type="checkbox"/>	100-1000	410050	44.532
<input type="checkbox"/>	100-1000	417900	12.521
<input type="checkbox"/>	100-1000	421000	4.532
<input type="checkbox"/>	100-1000	430100	675.652
<input type="checkbox"/>	100-1000	435000	131.254
<input type="checkbox"/>	100-1000	440001	352.126
<input type="checkbox"/>	100-1000	449000	76.521
<input type="checkbox"/>	100-1000	474240	9.145
<input type="checkbox"/>	100-1000	476900	7.589
<input type="checkbox"/>	100-1000	478000	11.265
			<b>1.588.416</b>
>	Cost Center:  100-1100-undefined		1.398.408
>	Cost Center:  200-1000-undefined		1.547.326
>	Cost Center:  200-2000-undefined		1.542.211
>	Cost Center:  200-3000-undefined		1.690.110
>	Cost Center:  200-4000-undefined		1.190.663
			<b>11.775.332</b>

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# LIST REPORT FLOORPLAN IMPLEMENTATION

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Vincent Stebel

# ACTIONS

## IMPLEMENTATION

### 4 TYPES OF ACTIONS

#### 1. Global actions

- affect the entire page

#### 2. Table actions

- affect content of the table

#### 3. Line item actions

- item specific

#### 4. Determining actions

- execute the end of a process that affect the entire page

The screenshot shows the SAP Fiori 'Items' application interface. At the top, there is a header bar with the SAP logo and navigation icons. Below the header, there are search and filter fields for 'Variant Title', 'Company Code', 'Ledger Type', 'Document Type', and 'Document Date'. A 'Search' button and 'Adapt Filters (7)' are also visible. The main area displays a table of 123 items. The table has columns for 'Document Number', 'Description', 'Company Code', 'Document Type', 'User Name', 'Posting Date', and 'Amount (Local Currency)'. Each row includes a checkbox and a 'Block' or 'Unblock' button. A 'Simulate' button is located at the bottom right of the table. Four red circles with numbers 1, 2, 3, and 4 are overlaid on the interface to highlight specific features: 1 points to the search and filter area, 2 points to the table header, 3 points to a row's 'Unblock' button, and 4 points to the 'Simulate' button.

Document Number	Description	Company Code	Document Type	User Name	Posting Date	Amount (Local Currency)	Action
10223882001820	AK_012 Revoked	SAP SA (001)	Goods Receipt (WE)	Denise Smith	01.01.2014	12,897.00 EUR	Block
10223882001820		Company M (023)	Contract Settlement	Richard Wilson	01.01.2014	234,197.00 EUR	Block
10223882001820	Regular returns of ...	Company F (561)	Depreciation Posting (AF)	Denise Smith	01.01.2014	11,865.99 EUR	Block
10223882001820	A-B45 Revoked on ...	Company M (023)	Contract Settlement (CH)	Richard Wilson	01.01.2014	12,897.00 EUR	Block
10223882001820	AK_012 Revoked	SAP SA (001)	Goods Receipt (WE)	Denise Smith	01.01.2014	12,897.00 EUR	Unblock
10223882001820	Random Check	Company M (023)	Contract Settlement (CH)	Richard Wilson	01.01.2014	12,897.00 EUR	Block
10223882001820		Company F (023)	Depreciation Posting (AF)	Richard Wilson	01.01.2014	234,197.00 EUR	Block
10223882001820	AK_012 Revoked	SAP SA (001)	Goods Receipt (WE)	Denise Smith	01.01.2014	12,897.00 EUR	Block
10223882001820	A-B45 Revoked on ...	Company M (023)	Contract Settlement (CH)	Richard Wilson	01.01.2014	12,897.00 EUR	Block
10223882001820	Regular returns of ...	SAP SA (001)	Depreciation Posting (AF)	Richard Wilson	01.01.2014	234,197.00 EUR	Block
10223882001820		Company F (561)	Depreciation Posting (AF)	Richard Wilson	01.01.2014	234,197.00 EUR	Block
10223882001820	Random Check	Company M (023)	Contract Settlement (CH)	Richard Wilson	01.01.2014	12,897.00 EUR	Block
10223882001820	Regular returns of ...	Company F (561)	Depreciation Posting (AF)	Denise Smith	01.01.2014	11,865.99 EUR	Unblock
10223882001820	AK_012 Revoked	SAP SA (001)	Goods Receipt (WE)	Denise Smith	01.01.2014	12,897.00 EUR	Block
10223882001820		Company M (023)	Depreciation Posting (AF)	Richard Wilson	01.01.2014	234,197.00 EUR	Unblock
10223882001820	AK_012 Revoked	SAP SA (001)	Goods Receipt (WE)	Denise Smith	01.01.2014	12,897.00 EUR	Block
10223882001820	AK_012 Revoked	Company F (561)	Goods Receipt (WE)	Denise Smith	01.01.2014	12,897.00 EUR	Block
10223882001820	Random Check	Company M (023)	Contract Settlement (CH)	Richard Wilson	01.01.2014	12,897.00 EUR	Block
10223882001820	Regular returns of ...	SAP SA (001)	Depreciation Posting (AF)	Richard Wilson	01.01.2014	234,197.00 EUR	Block

# DYNAMIC PAGE IMPLEMENTATION

## LIST REPORT FLOORPLAN + DYNAMIC PAGE

### Variant Management & Global actions

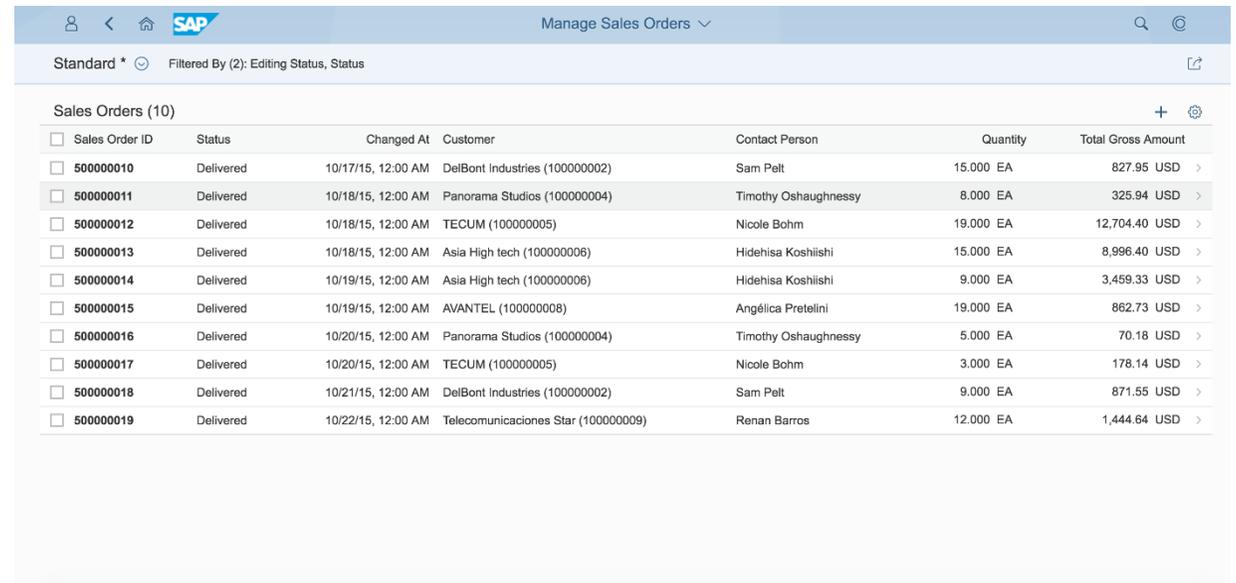
- Header title section shows up to five filter criteria

### Snapping Header

- Header content (filter bar) collapsible on scroll/click

### Footer Toolbar

- Determining actions in floatable footer toolbar



The screenshot displays the SAP 'Manage Sales Orders' interface. At the top, there is a navigation bar with the SAP logo and the title 'Manage Sales Orders'. Below this, a filter bar indicates 'Standard' and 'Filtered By (2): Editing Status, Status'. The main content area shows a table of 10 sales orders. Each row includes a checkbox, the Sales Order ID, Status, Changed At date and time, Customer name, Contact Person, Quantity, and Total Gross Amount. The table is scrollable, and the header is sticky.

<input type="checkbox"/>	Sales Order ID	Status	Changed At	Customer	Contact Person	Quantity	Total Gross Amount
<input type="checkbox"/>	500000010	Delivered	10/17/15, 12:00 AM	DelBont Industries (100000002)	Sam Pelt	15.000 EA	827.95 USD
<input type="checkbox"/>	500000011	Delivered	10/18/15, 12:00 AM	Panorama Studios (100000004)	Timothy Oshaughnessy	8.000 EA	325.94 USD
<input type="checkbox"/>	500000012	Delivered	10/18/15, 12:00 AM	TECUM (100000005)	Nicole Bohm	19.000 EA	12,704.40 USD
<input type="checkbox"/>	500000013	Delivered	10/18/15, 12:00 AM	Asia High tech (100000006)	Hidehisa Koshiishi	15.000 EA	8,996.40 USD
<input type="checkbox"/>	500000014	Delivered	10/19/15, 12:00 AM	Asia High tech (100000006)	Hidehisa Koshiishi	9.000 EA	3,459.33 USD
<input type="checkbox"/>	500000015	Delivered	10/19/15, 12:00 AM	AVANTEL (100000008)	Angélica Pretelini	19.000 EA	862.73 USD
<input type="checkbox"/>	500000016	Delivered	10/20/15, 12:00 AM	Panorama Studios (100000004)	Timothy Oshaughnessy	5.000 EA	70.18 USD
<input type="checkbox"/>	500000017	Delivered	10/20/15, 12:00 AM	TECUM (100000005)	Nicole Bohm	3.000 EA	178.14 USD
<input type="checkbox"/>	500000018	Delivered	10/21/15, 12:00 AM	DelBont Industries (100000002)	Sam Pelt	9.000 EA	871.55 USD
<input type="checkbox"/>	500000019	Delivered	10/22/15, 12:00 AM	Telecomunicaciones Star (100000009)	Renan Barros	12.000 EA	1,444.64 USD

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# SAP FIORI ELEMENTS – LIST REPORT IMPLEMENTATION

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Georg Christoph

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# SAP FIORI ELEMENTS – LIST REPORT IMPLEMENTATION

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## PROBLEM / ISSUE / USE CASE

The SAP Fiori Elements (“Smart Template”) – List Report now supports:

- differentiation between global and finalizing actions
- app can now disable / enable app-specific custom actions (function import) on the table toolbar
- smart micro area chart and smart micro bullet chart can now be used inside the responsive table

## STATUS

Available

## NEXT STEPS / OUTLOOK

Enabling / disabling break-out actions on table toolbar

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# TREE IMPLEMENTATION

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Georg Christoph

# TREE IMPLEMENTATION

## PROBLEM / ISSUE / USE CASE

New control for displaying **small and simple** hierarchies, e.g. as Master List, in dialogs, popovers, etc.

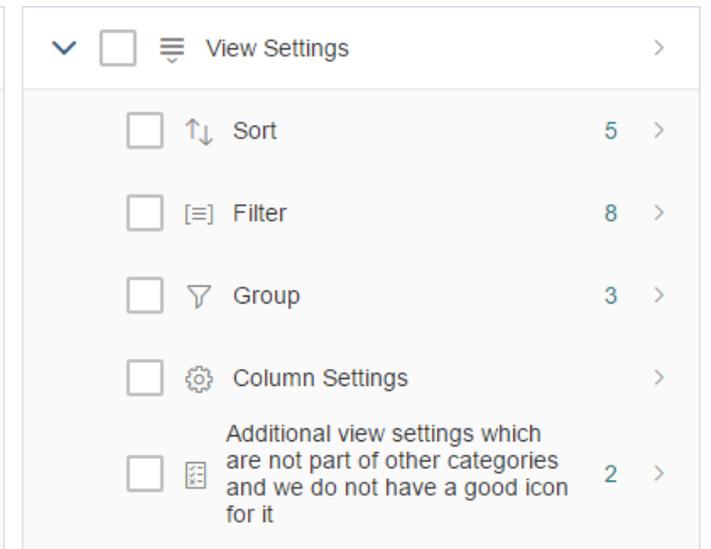
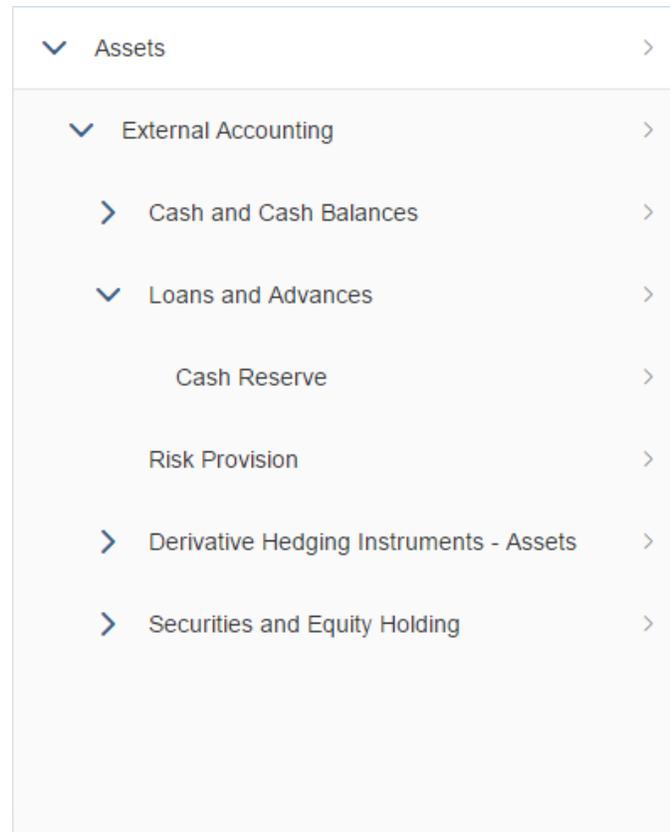
- includes icon, text, and counter per item
- supports single and multi selection
- options for displaying navigation indicator etc.

## STATUS

Available with SAPUI5 1.42

## NEXT STEPS / OUTLOOK

Improved layout for supporting deeper hierarchy levels on mobile devices.



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# SEE IT IN ACTION

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SAP UI5 EXPLORED

[Link](#)

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# DYNAMIC PAGE IMPLEMENTATION

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Carolin Seel & Melanie Siegmann

# DYNAMIC PAGE CONCEPT

## STATUS

Integration in Smart Templates

- List Report Floorplan
- Overview Page Floorplan

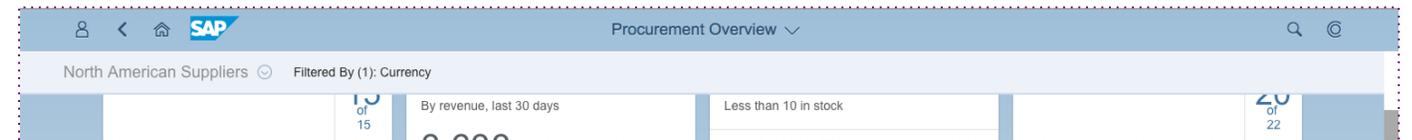
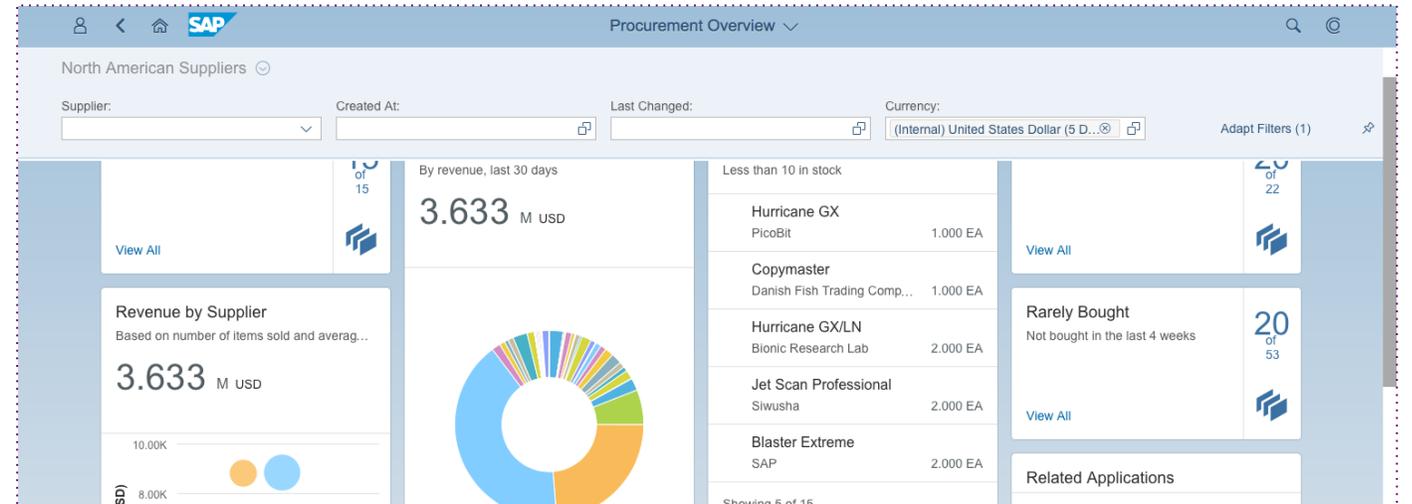
Dynamic Page is now also available in [UI5](#)

## WHEN TO USE

Have a look at the [guideline article](#)

## NEXT STEPS

Enhancements: Responsive behavior with priorities, more flexibility with additional properties, initial start also possible in collapsed mode and more.



**SNAPPED MODE – including summary of filter criteria**

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# OVERVIEW PAGE IMPLEMENTATION

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Caroline Schuster, Kathrin Fischer and Anke Debatin

# OVERVIEW PAGE IMPLEMENTATION

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## PROBLEM / ISSUE / USE CASE

The overview page consumes the Dynamic Page and provides now the last and final variant:

- Header Title (text) and Smart Filter Bar

## STATUS

Final implementation of the Dynamic Page.

## NEXT STEPS / OUTLOOK

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# OVERVIEW PAGE IMPLEMENTATION

## ISSUE

There is no navigation available inside of the object stream to the whole list.

## STATUS

The headline of the Object Stream is now implemented as link which navigates to the whole list.

## NEXT STEPS / OUTLOOK

The screenshot shows the SAP Fiori 'Waiting Approvals' dialog. The dialog is titled 'Waiting Approvals' and is filtered by '(1): Supplier'. It displays two purchase orders for approval:

- Purchase Order: 10005-3345**
  - Item: Ultra Jet Super Color (Flattbed scanner 9.600 x 9.600 dpi, SCSI for backward compatibility)
  - Volume ordered: 2.5K
  - Price: 100K USD
  - Category: Printer and Scanner
  - Supplier: Indian IT Trading Company
  - Buttons: Approve, Reject
- Purchase Order: 10005-3368**
  - Item: Track Mouse (USB 2.0 connection, LED light)
  - Volume ordered: 2.1K
  - Price: 50K USD
  - Category: Mouse and Keyboard
  - Supplier: Pear Computing Services
  - Buttons: Approve, Reject

The background shows a table with columns for Supplier, Date, and Amount, and a section for Non-Managed Spend by Supplier.

# OVERVIEW PAGE IMPLEMENTATION

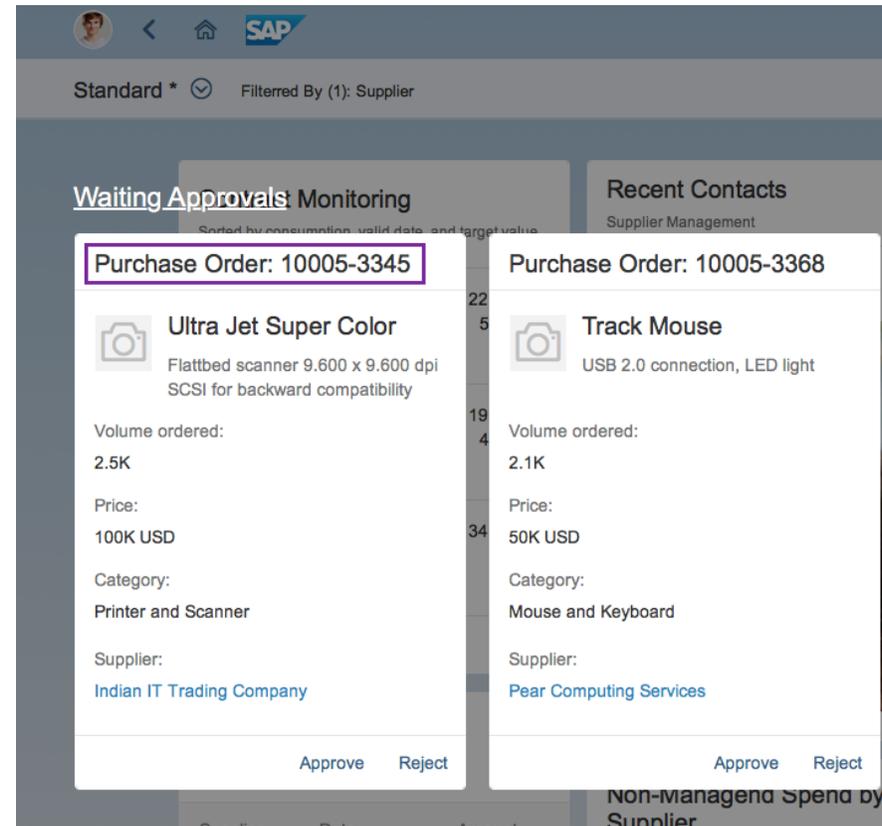
## PROBLEM

The title of the quick view cards (inside of the object stream) have only a static text which means that all card headers looks the same. There isn't an option to add card specific and dynamic content into the title.

## STATUS

The card header of the quick view cards have now the possibility to show a static and a dynamic text.

## NEXT STEPS / OUTLOOK



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# OVERVIEW PAGE IMPLEMENTATION

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## ISSUE

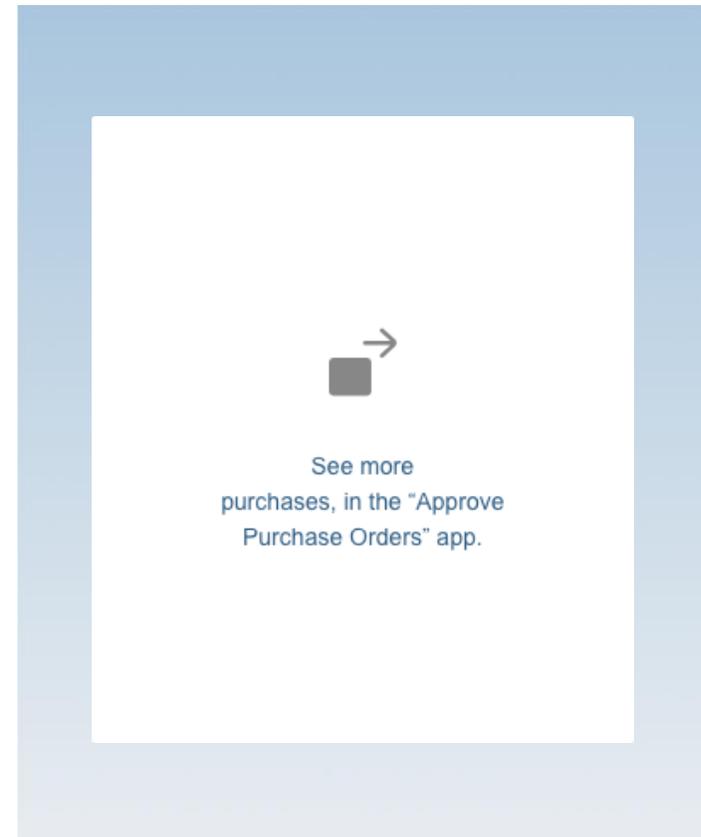
The placeholder card needed a new visual design and also a new appealing text.

## STATUS

A new placeholder card inside of the Object Stream is now implemented.

## NEXT STEPS / OUTLOOK

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# ME AREA IMPLEMENTATION

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Marcus Nitsche

# ME AREA IMPLEMENTATION

## USE CASE

Providing a powerful “user menu”

- left area of the viewport concept
- the Me Area can be launched by clicking the user icon / photo at the very left position of the Fiori Shellbar

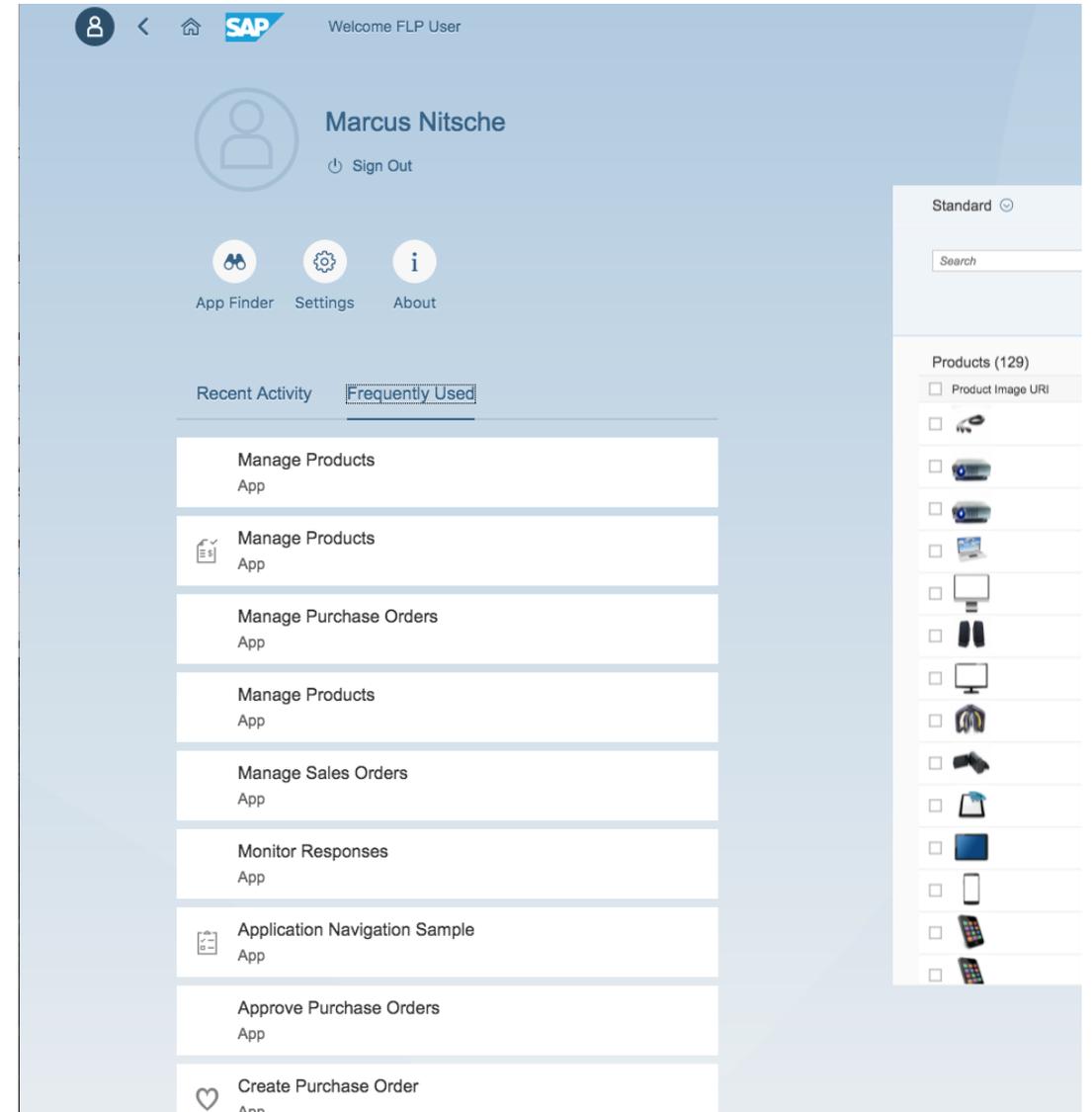
## STATUS

First version stabilized, improved and enhanced by “Frequently Used” tab to also display most frequently used applications and searches.

## NEXT STEPS / OUTLOOK

To be enhanced by

- Snappy header feature to better meet the need of mobile screens
- The user’s online status (e.g., used within CoPilot chats)



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# SETTINGS IMPLEMENTATION

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Marcus Nitsche

# SETTINGS IMPLEMENTATION

## USE CASE

Offer user a central entry point for all Fiori (App) settings

- the settings dialog can always be launched from the Me Area

## STATUS

First version of implementation has been enhanced by Notification settings as well as improved Default Values section. App settings are currently under discussion.

## NEXT STEPS / OUTLOOK

- Feature enhancement
- Adding CoPilot settings & App settings to this dialog

The screenshot displays the 'Settings' dialog in SAP Fiori. The left sidebar contains a search bar and a list of settings categories: 'User Account' (Marcus Nitsche), 'Appearance' (SAP Belize), 'Language & Region' (EN), 'User Profiling', and 'Default Values' (selected). The main content area is titled 'Default Values' and is divided into two sections: 'Controlling' and 'Financial Accounting'. Each section contains several input fields with 'Additional Values' buttons. The 'Controlling' section includes fields for CO Area, Cost Element, Cost Object, Functional Area, Profit Center, and WBS Element. The 'Financial Accounting' section includes fields for Company Code, Business Area, Chart of Accts, Journal Entry Type, Fin. Statement Vers., Fiscal Year, and Ledger Fiscal Year. At the bottom right, there are 'Save' and 'Cancel' buttons.

Section	Field	Action
Controlling	CO Area	Additional Values
	Cost Element	Additional Values
	Cost Object	Additional Values
	Functional Area	Additional Values
	Profit Center	Additional Values
	WBS Element	Additional Values
Financial Accounting	Company Code	Additional Values
	Business Area	Additional Values
	Chart of Accts	Additional Values
	Journal Entry Type	Additional Values
	Fin. Statement Vers.	
	Fiscal Year	Additional Values
	Ledger Fiscal Year	Additional Values

---

# NOTIFICATIONS CONCEPT

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UX – Marc Ziegler

VD – Alexander Kirichev

PO – Marko Degenkolb

# NOTIFICATIONS CONCEPT

## PROBLEM / ISSUE / USE CASE

Integrate a "notification service" as a default feature of SAP Fiori.

## STATUS

- Settings (preview on/off, preview by default off, do not disturb, notification on/off, Banner)
- Error and Success messages

## NEXT STEPS / OUTLOOK

- Performance
- Settings (mobile channel)
- VD Improvement
- Decision Support
- Subscription based Notifications



---

# NOTIFICATIONS

## CONCEPT

---

### UI5

<http://veui5infra.dhcp.wdf.sap.corp:8080/demokit/explored.html#/sample/sap.m.sample.NotificationListGroup/preview>

<http://veui5infra.dhcp.wdf.sap.corp:8080/demokit/explored.html#/sample/sap.m.sample.NotificationListItem/preview>

**Responsible User Experience Designer:**

Marc Ziegler

**Product Owner:**

Marko Degenkolb

**Dev Status:**

Main scope done, new features under Development

---

# MESSAGE HANDLING

## TESTING & IMPROVEMENTS

---

Daniel Wurst, Vincent Stebel

# MESSAGE HANDLING

## TESTING FEEDBACK

### PROBLEM / ISSUE / USE CASE

User Testing for Floorplans included Message Handling  
Collected Feedback which needs to be considered  
Got really interesting feedback about features of the Message Popover

### STATUS

Creating prototype with Axure based on Testing feedback  
Working together with architects and explaining problems and user needs

**General Data**

\*First Name:  2

\*Last Name:  Please enter valid characters 3

\*Date of Birth:

\*E-Mail:

**Address**

City:

Zip:

Street:

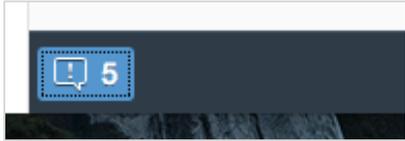
Message Popover:

- All 4
- Enter valid characters (First name)
- Enter valid characters (Last name)
- Supplier XYZ does not exist (<Backend target information>)

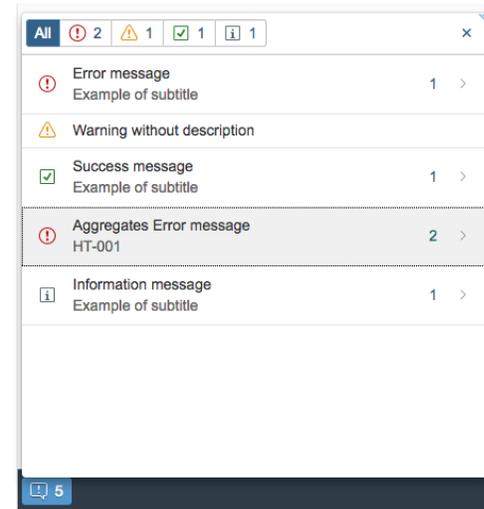
Save Cancel

# MESSAGE POPOVER

## Testing Feedback



Current UI

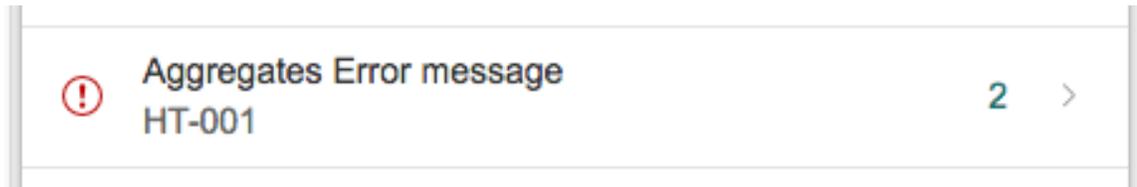


New idea based on feedback

## Message Popover

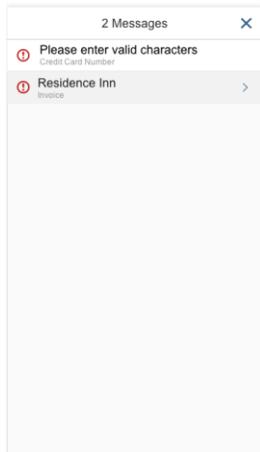
- MP should be red instead of blue
- Icon not self explaining, not critical enough
- Count almost never recognized (but confusing if recognized later on)
- Only error from current page interesting
- Position very unpresent, to far away, to below, more up and important expected
- Segmented button (Filter on top) in MP not understood or missused

# MESSAGING (GLOBAL EDIT FLOW)

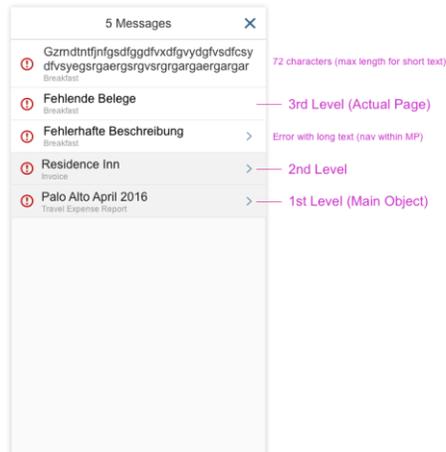


Aggregated Message

Main Object Global Edit Flow



Subobject Global Edit Flow



## Aggregation (Floorplans)

- Users did not expect „to take“ errors from higher levels onto deeper levels
- Aggregation not completely logic, after deeper thinking aggregation understood per topic or level
- Visual of aggregated messages to similar to visual of single messages, not recognized as something different
- No errors on subpage expected (global edit flow not understood)

# MESSAGE HANDLING

## TESTING FEEDBACK

### NEXT STEPS / OUTLOOK

Testing with Draft Handling @TechEd Barcelona, Nov 2016

Working on Prototype based on Testing feedback

Your feedback is of course helpful and needed as well

Working together with architects and explaining problems and user needs

The screenshot shows a form with the following sections:

- General Data**
  - \*First Name:  (highlighted with a red box and a blue '2' in the top right corner)
  - \*Last Name:  (highlighted with a red box and a blue '3' in the top right corner; contains the error message "Please enter valid characters")
  - \*Date of Birth:
  - \*E-Mail:
- Address**
  - City:
  - Zip:
  - Street:

At the bottom, a summary dialog box is open, showing:

- Header: All 4 (with a red warning icon)
- Item 1: Enter valid characters (with a red warning icon), First name
- Item 2: Enter valid characters (with a red warning icon), Last name
- Item 3: Supplier XYZ does not exist (with a red warning icon), <Backend target information>
- Footer: 4 (with a red warning icon), Save, Cancel

---

# MESSAGE HANDLING

## FIORI ELEMENTS

---

### PROBLEM / ISSUE / USE CASE

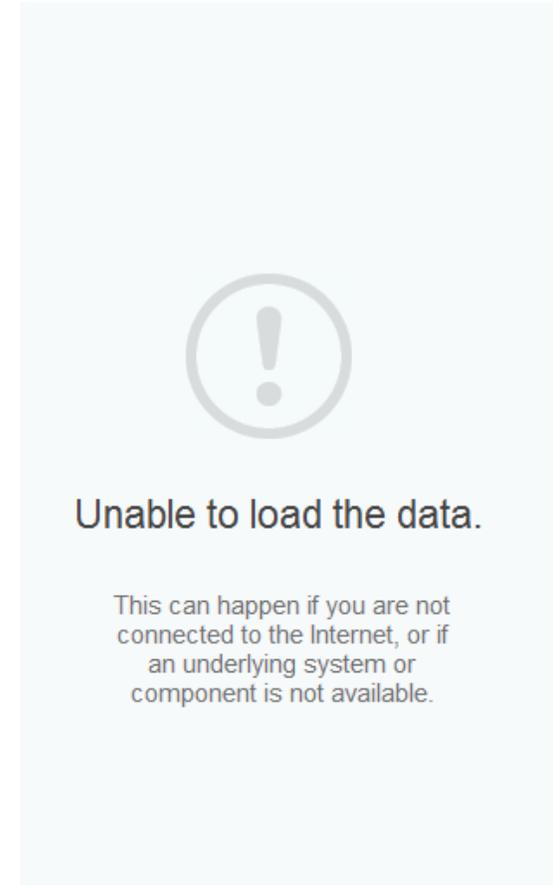
No generic Message Handling available which handles common messages.

### STATUS

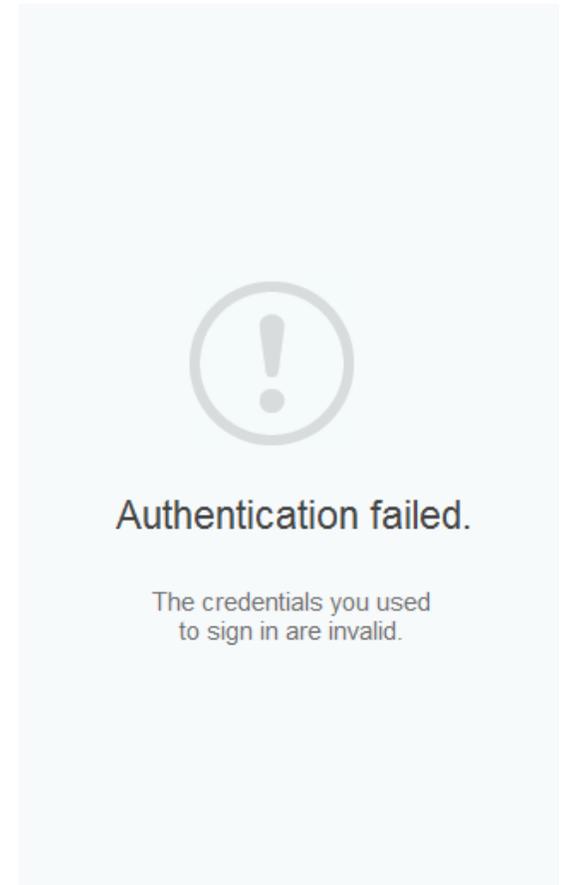
Together with Fiori Elements developers we designed and implemented the interaction in error cases and designed human readable and helpful texts for the different scenarios.

### NEXT STEPS / OUTLOOK

Trying to adapt those enhancements to the UI5-Core, Launchpad, etc.  
So applications will get more and more benefits in terms of message handling.



**e.g. HTTP Code 500**  
System can't be reached at all



**e.g. HTTP Code 403**  
System can't be reached at all

# MESSAGE HANDLING FIORI ELEMENTS

## 3 STEPS APPROACH

UI5 Core  
Fiori Elements  
Application

## NEXT STEPS / OUTLOOK

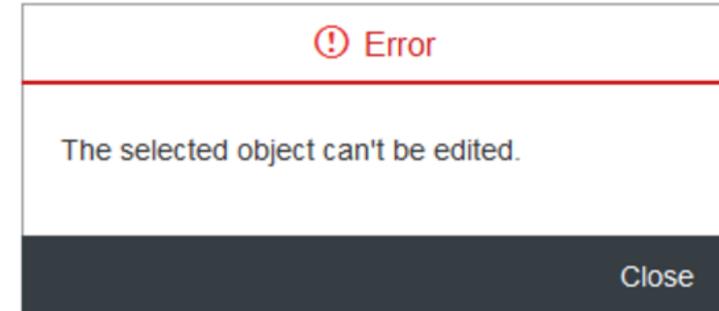
We want to cover more and more common messages on core level

Apps, using „Fiori Elements“ are profiting from those enhancements

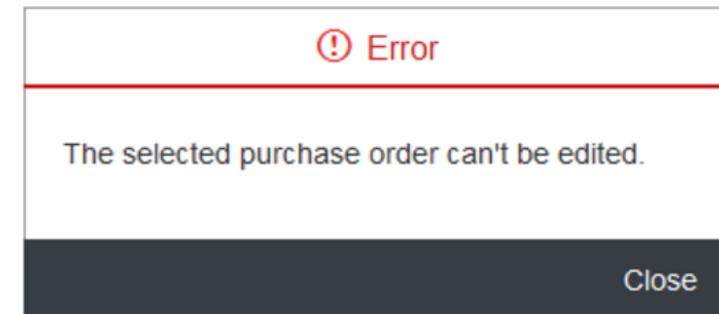
Applications are able to edit and provide more precise texts

### ST Action - Edit

ST default:



After adaptation by app team:



**e.g. HTTP Code 500**  
System can't be reached at all

---

# PROGRESSIVE DISCLOSURE CONCEPT

---

Daniel Wurst

# PROGRESSIVE DISCLOSURE CONCEPT

## PROBLEM / ISSUE / USE CASE

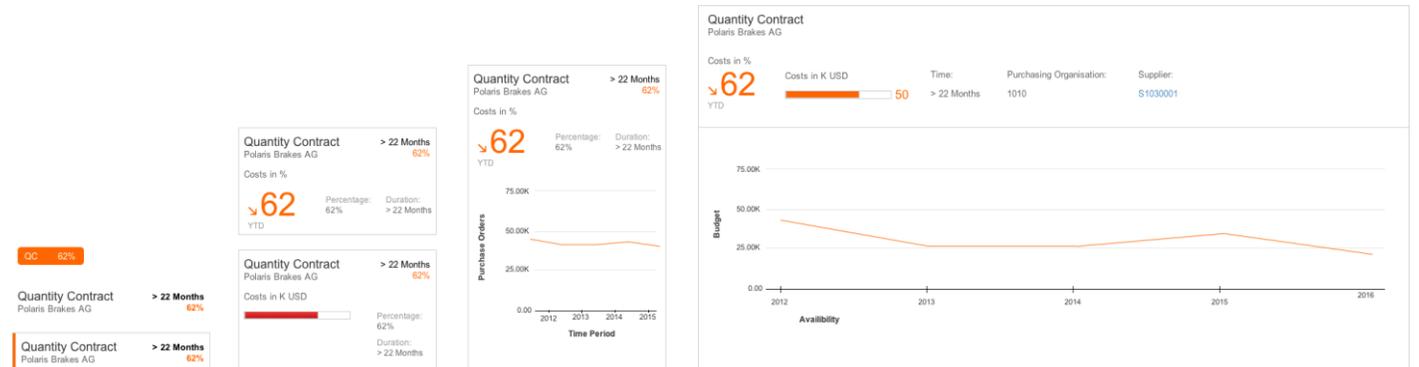
- How can we provide a more flexible control, that can display data through different floorplans?
- How can we create a consistent user experience through the existing floorplans?

## STATUS

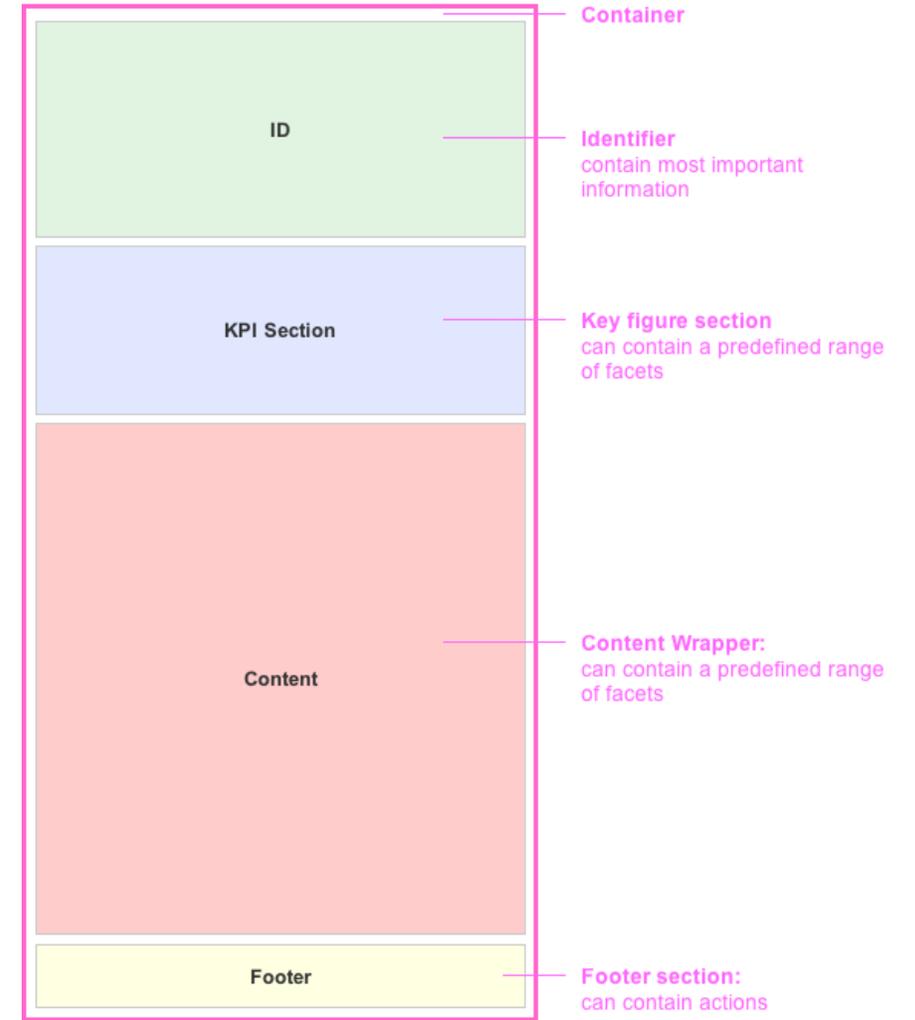
Use Cases collected, still asking for new use cases  
Concept ready

## NEXT STEPS / OUTLOOK

Working closely with Development to make it real and provide useful controls...



# STRUCTURE



General structure

# RESPONSIVENESS



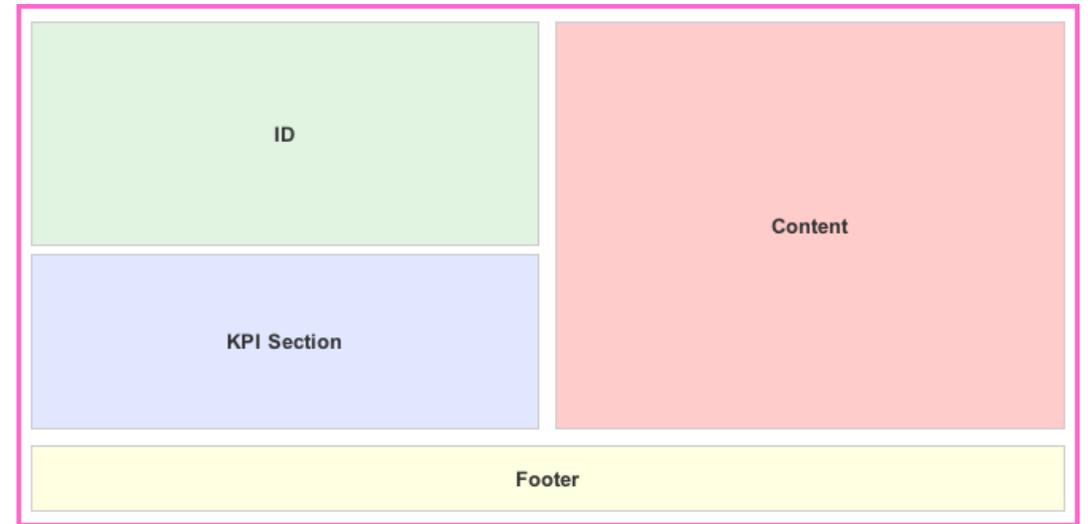
## Responsiveness

- Identifier
- Key Figure



## Responsiveness

- Identifier
- Key Figure
- Footer with actions



## Responsiveness

- Identifier
- Key Figure
- Content
- Footer with actions

# RESPONSIVENESS

## CONCEPT



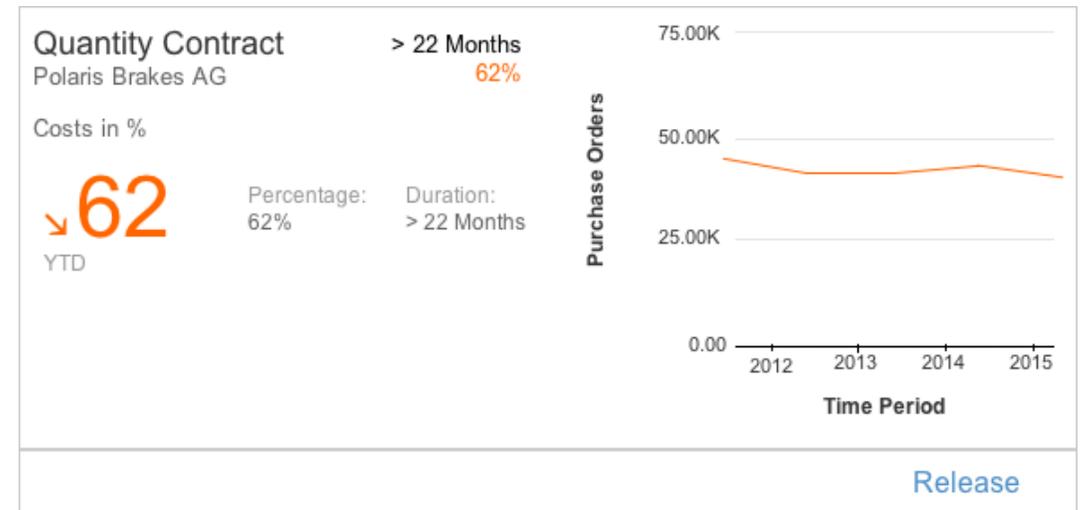
### Responsiveness

- Identifier
- Key Figure



### Responsiveness

- Identifier
- Key Figure
- Footer with actions



### Responsiveness

- Identifier
- Key Figure
- Content
- Footer with actions

# RESPONSIVENESS

Panasonic Lumix

## Responsiveness

- Identifier
- Key Figure

Panasonic Lumix In Stock ...

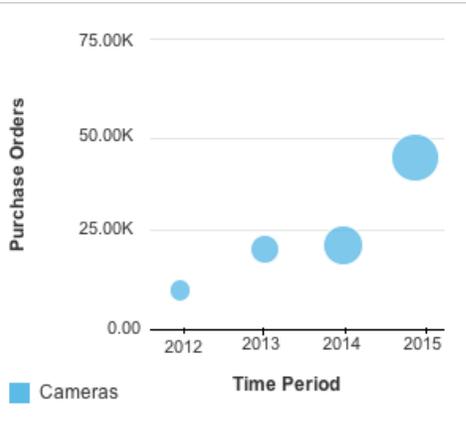
## Responsiveness

- Identifier
- Key Figure
- Footer with actions



**Panasonic Lumix DMC-GH4**  
Mirrorless Micro Four Thirds Digital Camera (Body Only)

Price: **697.99\$**    Availability: **In Stock**    Reviews: ★★★★★



Time Period	Purchase Orders
2012	10.00K
2013	20.00K
2014	25.00K
2015	45.00K

Order

## Responsiveness

- Identifier
- Key Figure
- Content
- Footer with actions

---

# TOOLBAR IMPLEMENTATION

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Tina Rauschenbach

# ACTION PLACEMENT IMPLEMENTATION

## USE CASE

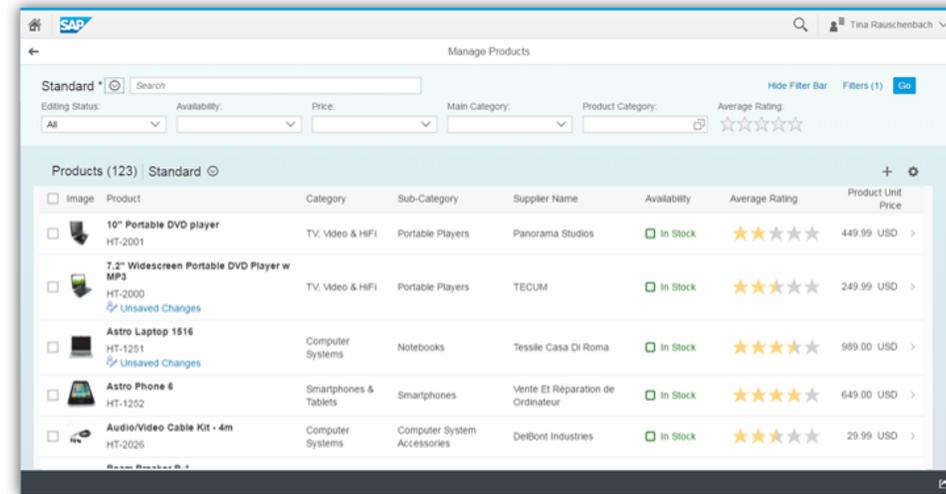
- In the past footer toolbar was used for all kind of actions that belong to the whole page
- Usability improvement to differentiate between global, local, inline and determining actions

## STATUS

- Guideline updated
- Fiori Elements have integrated the behavior already

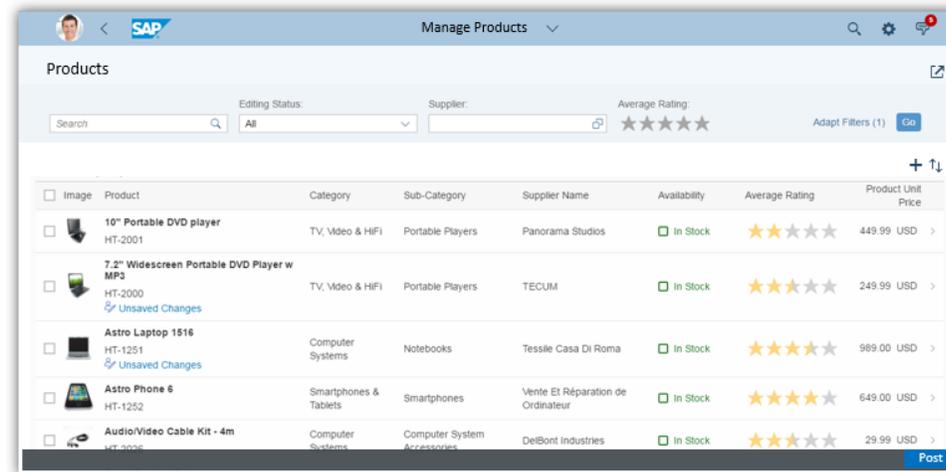
## NEXT STEPS

- Footer Toolbar will also stick to the content in the future



Local Actions

Global Actions



Global Actions

Local Actions

Determine Actions

---

# FIORI ELEMENTS – MICRO CHARTS (SMART TEMPLATES)

## IMPLEMENTATION

---

Tina Rauschenbach, Janina Bläsius

# FIORI ELEMENTS – MICRO CHARTS IMPLEMENTATION

## USE CASE

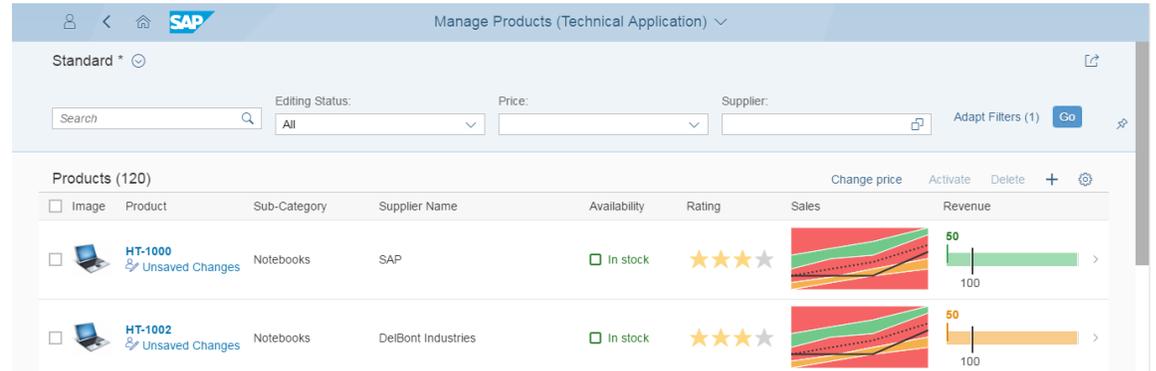
No possibility to integrate micro charts inside of list report and object page

## STATUS

Its now possible to add micro charts to a table column on list report and object page. Currently, bullet and area micro charts are supported.

## NEXT STEPS

Requirements for Smart Micro Chart improvement was handed over to control owner



The screenshot shows the SAP Fiori Elements 'Manage Products' interface. The table displays product information with micro charts for Sales and Revenue. The 'Sales' column contains area charts, and the 'Revenue' column contains bullet charts. The table has columns for Image, Product, Sub-Category, Supplier Name, Availability, Rating, Sales, and Revenue. The 'Sales' and 'Revenue' columns are highlighted with red and orange bars respectively, indicating the micro charts.

Image	Product	Sub-Category	Supplier Name	Availability	Rating	Sales	Revenue
<input type="checkbox"/>	HT-1000 Unsaved Changes	Notebooks	SAP	<input type="checkbox"/> In stock	★★★★☆		
<input type="checkbox"/>	HT-1002 Unsaved Changes	Notebooks	DelBont Industries	<input type="checkbox"/> In stock	★★★★☆		

---

# FIORI ELEMENTS – ACTION CONTROL (SMART TEMPLATES)

## IMPLEMENTATION

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Tina Rauschenbach, Janina Bläsius

---

# FIORI ELEMENTS - ACTION CONTROL IMPLEMENTATION

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## USE CASE

The action had to be clicked by the end user to get feedback that the action isn't available.

## STATUS

Control the visibility of actions. Based on a condition specified in the back-end system, actions can be hidden on page header level, hidden for inline actions of a table, and disabled for toolbar actions of a table. Also actions now can specify whether they need at least on selected item to be enabled. This functionality is available for actions provided via function import from the backend.



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# FIORI ELEMENTS – ADD ACTION

(SMART TEMPLATES)

## IMPLEMENTATION

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Tina Rauschenbach, Janina Bläsius

---

# FIORI ELEMENTS – ADD ACTION IMPLEMENTATION

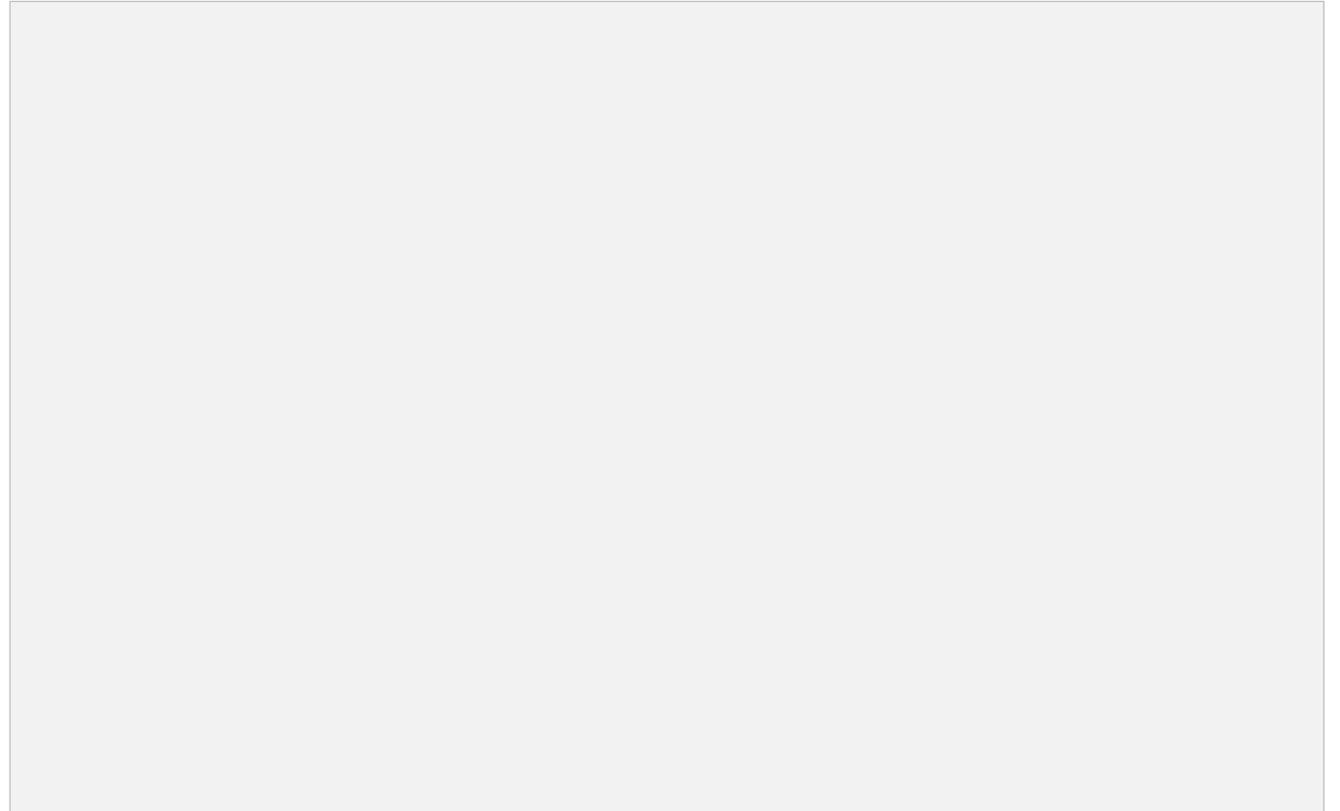
---

## USE CASE

It wasn't possible to show and hide the add button based on specific conditions in the back-end on the list report.

## STATUS

Provides the possibility to hide or show the add action based on certain conditions specified in the back-end system.



---

# FIORI ELEMENTS – CHART CUSTOM ACTIONS

(SMART TEMPLATES)

## IMPLEMENTATION

---

Tina Rauschenbach, Janina Bläsius

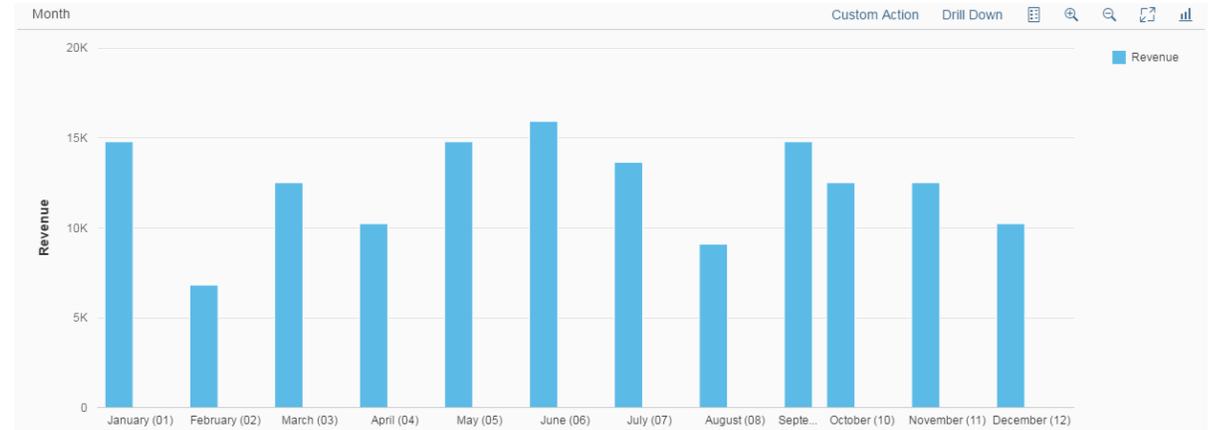
# FIORI ELEMENTS – CHART CUSTOM ACTION IMPLEMENTATION

## USE CASE

Applications haven't been able to show custom actions in the chart toolbar on an object page.

## STATUS

The smart chart in an object page now offers an action toolbar, where applications can provide chart specific actions



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# LIGHTBOX IMPLEMENTATION

---

Veselina Petrova  
Yordanka Petkova

# LIGHTBOX IMPLEMENTATION

## USE CASE

Lightbox is used for displaying images in their original size by opening them in a container over the content of the page while the content is dimmed by an overlay.

## STATUS

Implemented



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# SEE IT IN ACTION

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## SAPUI5 EXPLORED

[Preview](#)

---

# MULTI-COMBO BOX IMPLEMENTATION

---

Diana Balkanska, Yordanka Petkova, Jamila Schon

# MULTI-COMBO BOX IMPLEMENTATION – S-SIZE IMPROVEMENTS

## USE CASE

The multi-combo box control is commonly used to enable users to select one or more options from a predefined list.

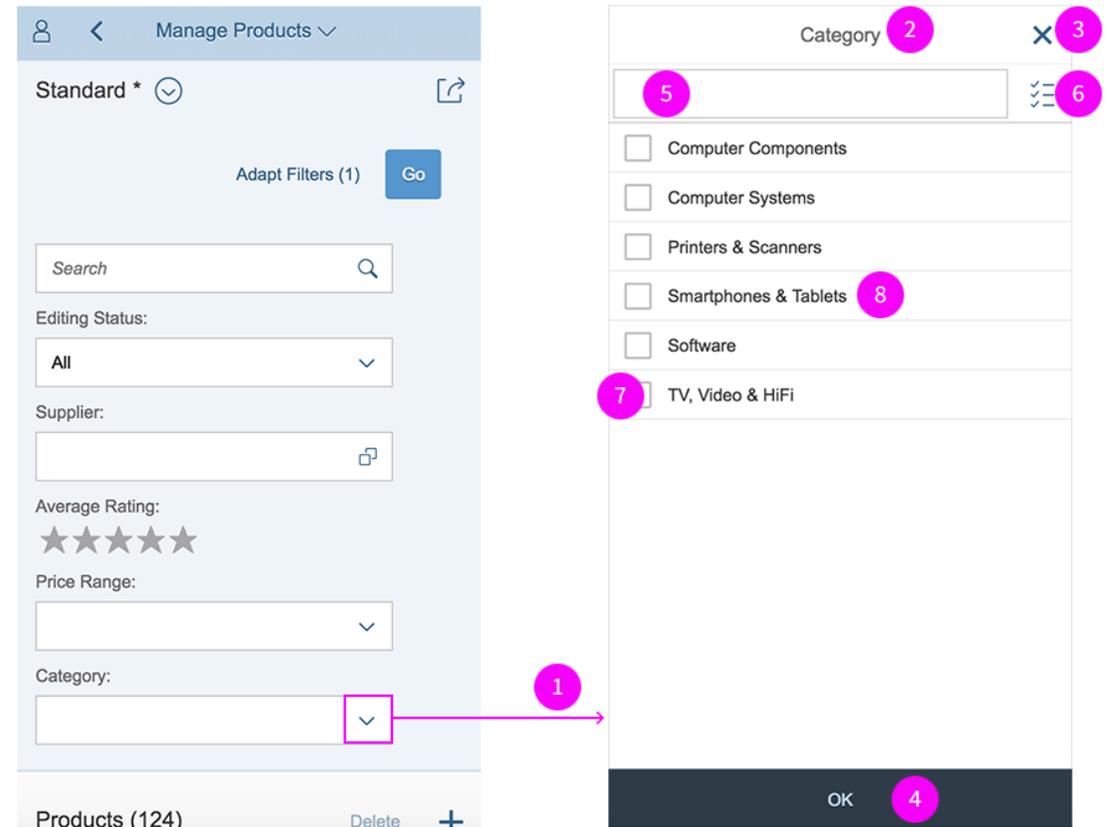
The control opens in a full screen dialog on size S (1) and has a title (2), close (3) and OK (4) buttons, it provides an editable input field to filter the list (5), and a button (6) that toggles the view between all options and selected only. There are two click areas in the option list – checkboxes (7) that permit multi-selection and labels (8) of the entries.

## STATUS

Implemented

## NEXT STEPS / OUTLOOK

Concept for multi-input and multi-combo box control merge



---

# SEE IT IN ACTION

---

## SAP UI5 EXPLORED

<http://veui5infra.dhcp.wdf.sap.corp:8080/sapui5-sdk-dist/explored.html#/entity/sap.m.MultiComboBox/samples>

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# SAP.M.COMBOBOX IMPLEMENTATION

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Jamila, Gerard

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# SAP.M.COMBOBOX

## IMPLEMENTATION – S-SIZE IMPROVEMENT

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### USE CASE

Non-consistent behavior among selection controls.

New features:

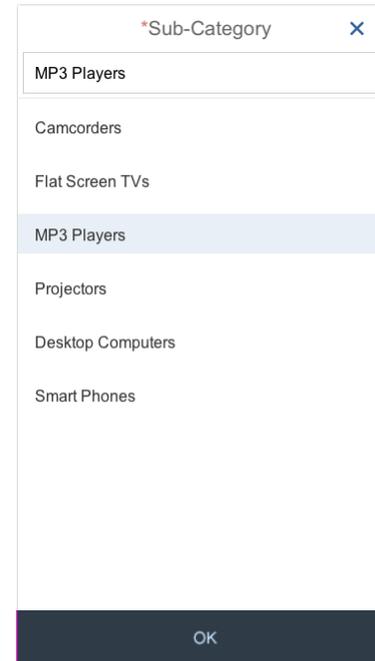
1. Controls open in full-screen with a title
2. Close icon on top right corner

### STATUS

Implemented

### NEXT STEPS

- Alignment with sap.m.Select



---

# SEE IT IN ACTION

SAP UI5 EXPLORED APP:  
[COMBOBOX](#)

---

# DRAFT HANDLING & OBJECT MARKER IMPLEMENTATION

---

UX Jamila

VD Simone, Alexander

# SAP.M.OBJECTMARKER IMPLEMENTATION

## USE CASE

Provide a consistent visualization for the technical status of an object. The technical status can be represented as icon, icon and text, or as text only. The chosen visibility is improved for every screen size. Today we have the following technical status that can be visualized by the object marker:

- Flag, Favorite, Editing Status (locked, unsaved changes, draft)

## STATUS

Implemented for [upload collection](#) and [object list item](#). [Object page header](#) only updated to the new icons.

'by <user name>' information implemented

## NEXT STEPS

- Enable also other technical status for [object header](#) and [object page header](#) and [object list item](#)
- Improve 'by <user name>' to fulfill globalization standards

Products	
Gladiator MX	87.50 EUR
125 g	★ 🚩
145 x 140 x 360 cm	Available
Hurricane GX	235 EUR
34 g	🚩 👤
45 x 14 x 36 cm	Out of stock
Power Projector 4713	135 EUR
67 g	Draft
425 x 35 x 30 cm	Discontinued
Webcam	15 EUR
67 g	🔗
15 x 15 x 10 cm	New

Object List Item

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# SEE IT IN ACTION

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[UI5 Explored App](#)

[Fiori Guideline](#)

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# SAP FIORI LAUNCHPAD – TAB BAR

## CONCEPT

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UX: Jamila Schon, Rainer Filsinger

VD: Florian Joergensen, Dragomir Ralchev

# SAP FIORI LAUNCHPAD – TAB BAR

## CONCEPT

### USE CASE

Default: All groups are displayed one below the other, and by clicking an entry of the **anchor bar**, the screen automatically scrolls to the according group.

As an option, the **tab bar** can be enabled by the administrator or the user. The single groups are then separated in tabs.

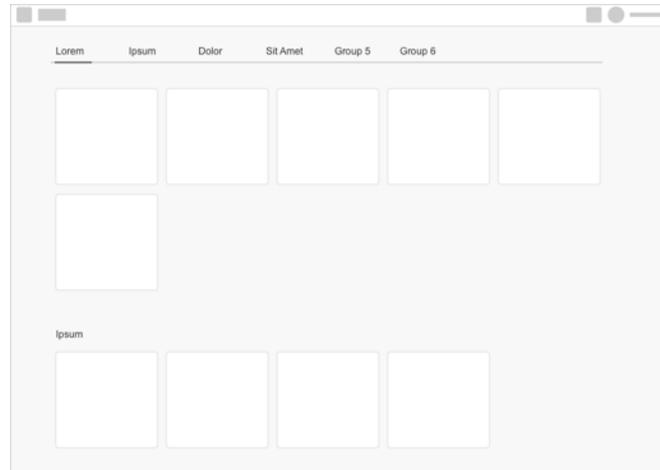
Advantage: In case of many apps, there is less cognitive load. The **tab bar** allows to better focus on single group content.

### STATUS

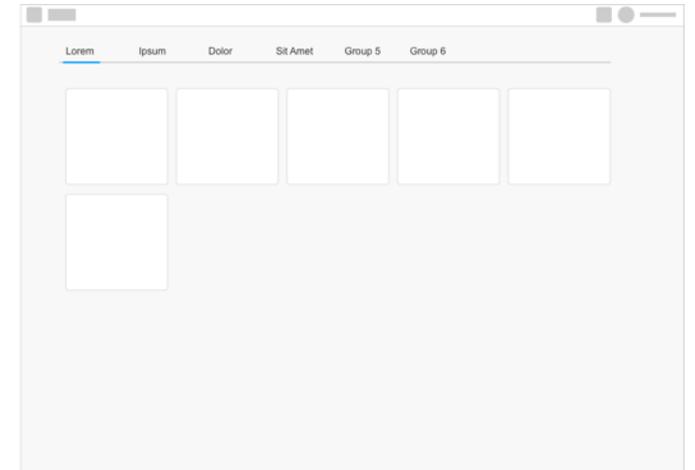
Concept accomplished, implementation to start soon

### NEXT STEPS

Planned availability with SAPUI5 1.44; additional features like groups and apps personalization to come with next releases.



Similar launchpad with **anchor bar**

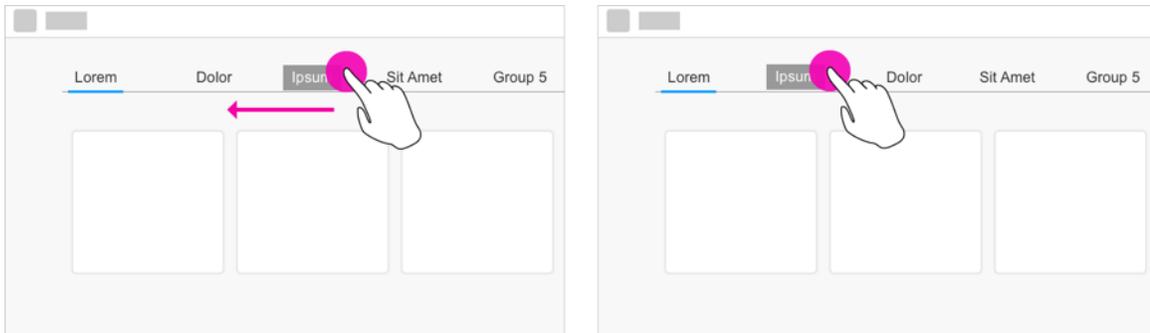


Launchpad with **tab bar**

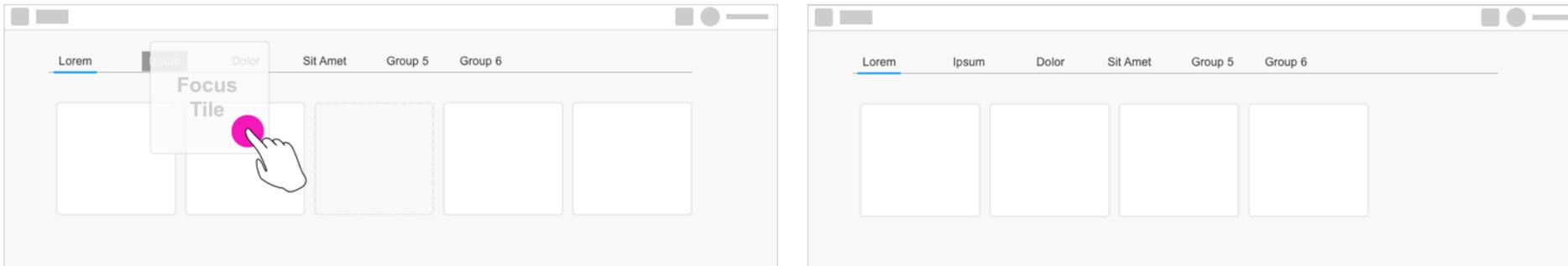
# SAP FIORI LAUNCHPAD – TAB BAR

## CONCEPT

Concept: Change order of groups by dragging & dropping entries in tab bar



Concept: Move tiles to another group by dragging & dropping on entry in tab bar



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# SAP FIORI LAUNCHPAD – EXPOSURE OF EMPTY GROUPS

## CONCEPT

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UX: Jamila Schon, Rainer Filsinger

# SAP FIORI LAUNCHPAD – EXPOSURE OF EMPTY GROUPS CONCEPT

## USE CASE

Some applications do not work based on the device type (mobile experience). In such a case, empty groups might be displayed in the SAP Fiori Launchpad.

This is irritating and consumes unnecessary real estate. We therefore plan to not expose empty groups anymore.

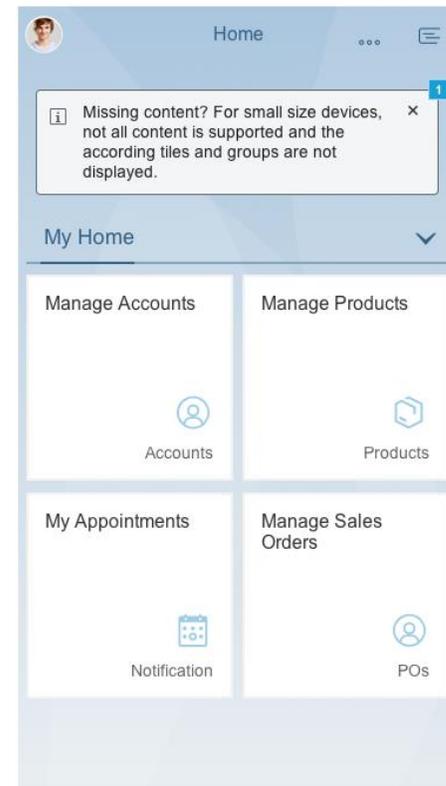
To keep the user informed, there is an according message text. Such information will be displayed temporarily in a message strip until confirmed.

## STATUS

Concept work ongoing

## NEXT STEPS

Will be embedded in overarching authorization concept



Smartphone screen with message strip

---

# SAP FIORI LAUNCHPAD – LINKS AREA

## CONCEPT

---

UX: Jamila Schon, Rainer Filsinger

VD: Carmen Stringari-Vogel, Florian Joergensen

# SAP FIORI LAUNCHPAD – LINKS AREA

## CONCEPT

### USE CASE

Links are a second visualization for apps on the SAP Fiori Launchpad that are less frequently used.

Within each group, administrators and end users can choose their preferred representation of apps and their arrangements.

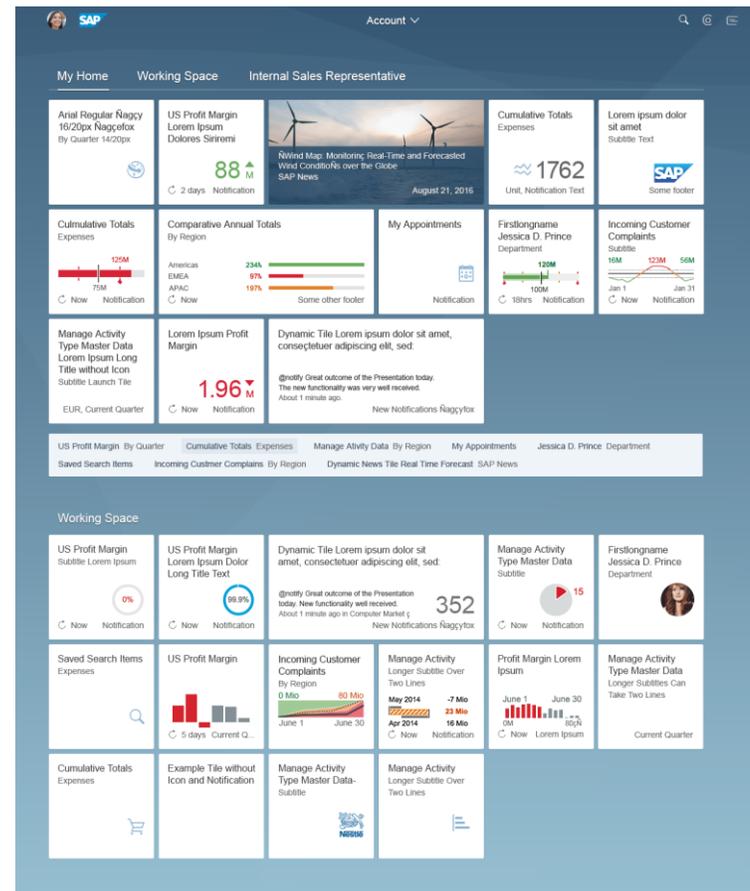
Responsive behavior. On S-Size the inline tile behaves like sap.m.ObjectNumber.

### STATUS

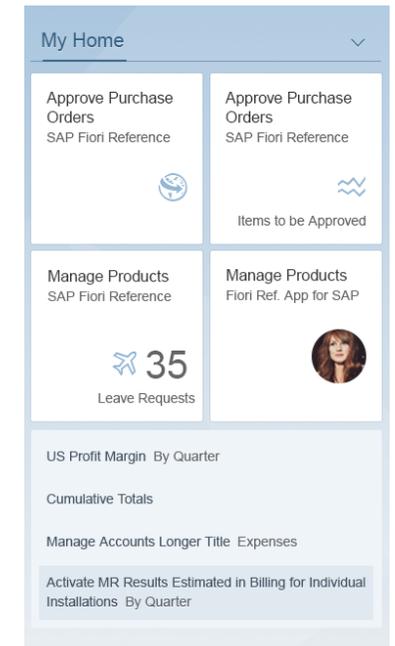
Concept in fine tuning phase, implementation to start soon

### NEXT STEPS

Planned availability with SAPUI5 1.44 (Nov. 2016)



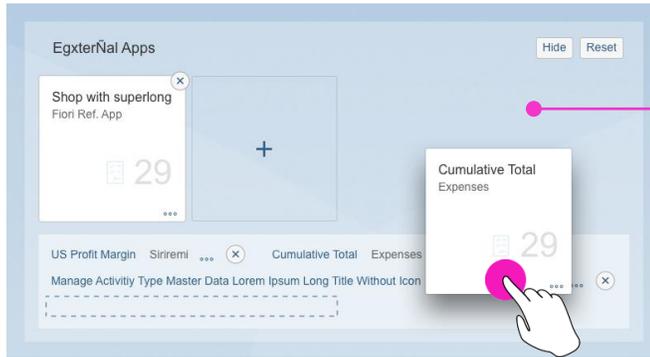
SAP Fiori Launchpad with links area (size L, dark theme)



SAP Fiori Launchpad with links area (size S, light theme)

# SAP FIORI LAUNCHPAD – LINKS AREA

## CONCEPT



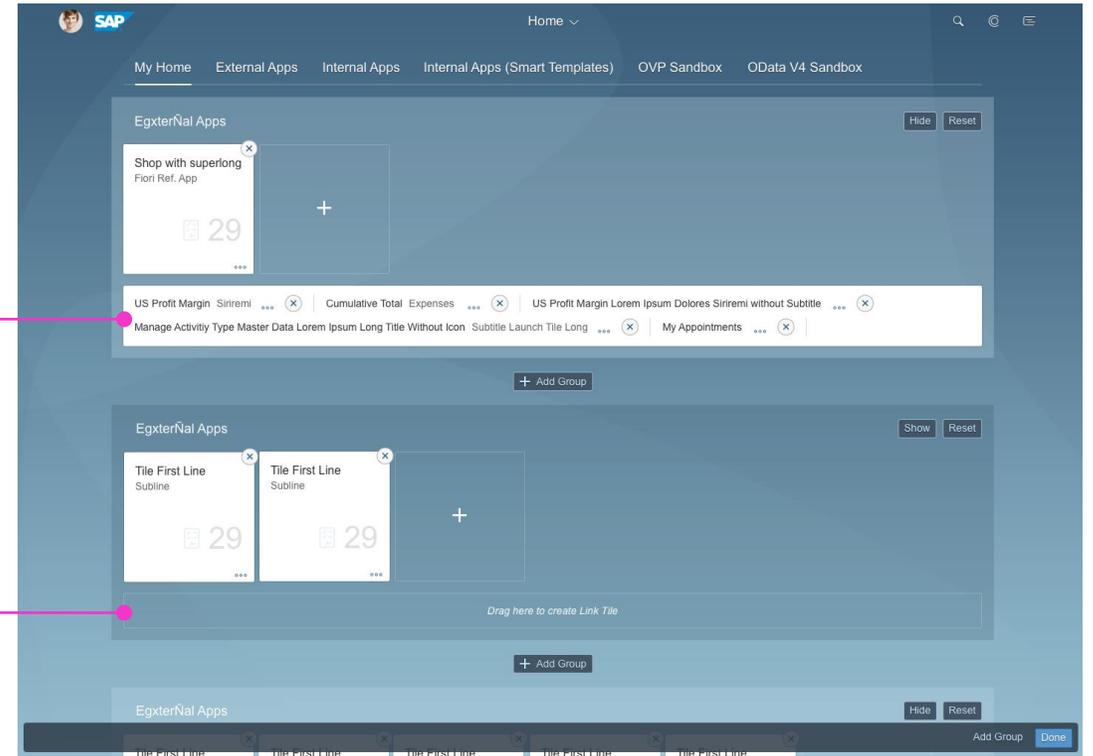
Transform tile to link with drag & drop



Transform link to tile with drag & drop

Edit mode: populated link list

Edit mode: empty link list



---

# APP FINDER

## CONCEPT

---

UX Jamila  
VD Sascha

# APP FINDER CONCEPT

## USE CASE

Non-consistent behavior and visual design among the different tabs in the App Finder. Filtering for apps in Easy Access Menu is not available.

Planned features:

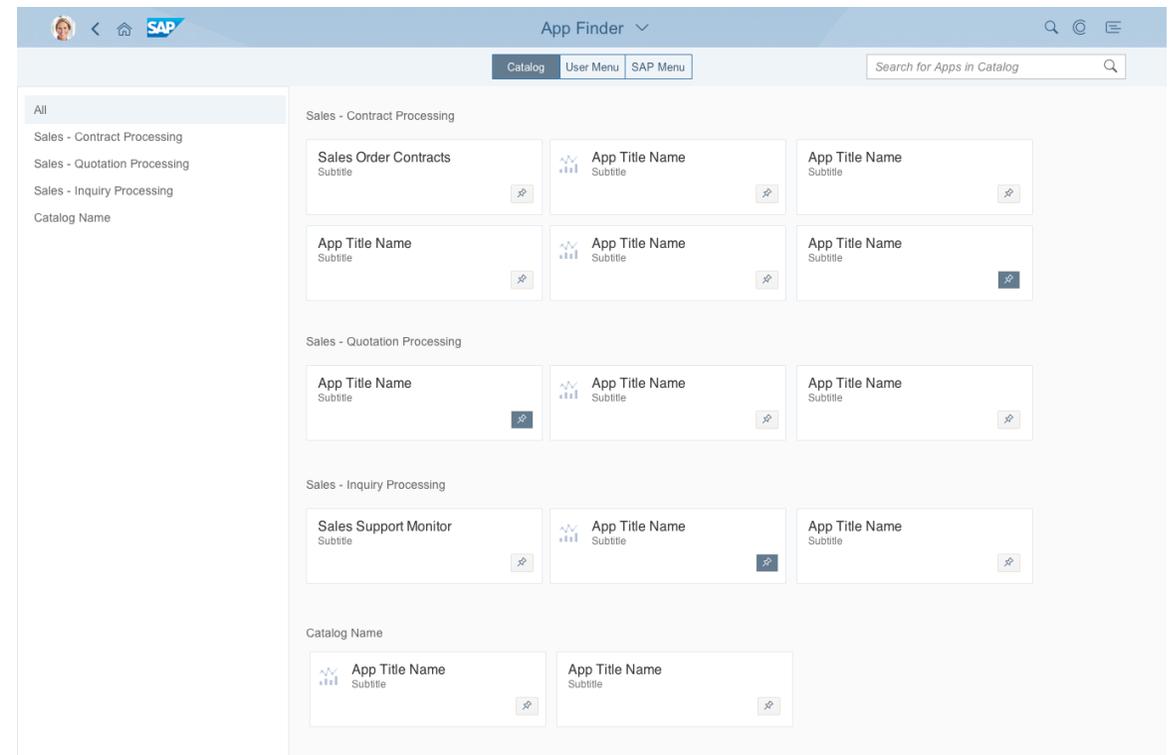
1. Align Catalog structure with User Menu/ SAP MENU;
2. Adapt new tile size also for tiles in catalog;
3. Enable filtering/searching for apps;

## STATUS

- UX & VD mostly done
- FLP started implementation first spec

## NEXT STEPS

- Finalize implementation and review
- Align “Add” concept for all tabs



---

# SEE IT IN ACTIONS

---

[Fiori Guideline](#)

---

# SEE GUIDELINES FOR FURTHER UPDATES

---

- Mass Editing [improved guidelines]
- Timeline | `sap.collaboration.components.feed.Component` [new features]
- Upload Collection | `sap.m.UploadCollection` [new feature]

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# THANK YOU

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