

SAP BusinessObjects Design Studio

Overview and Road Map

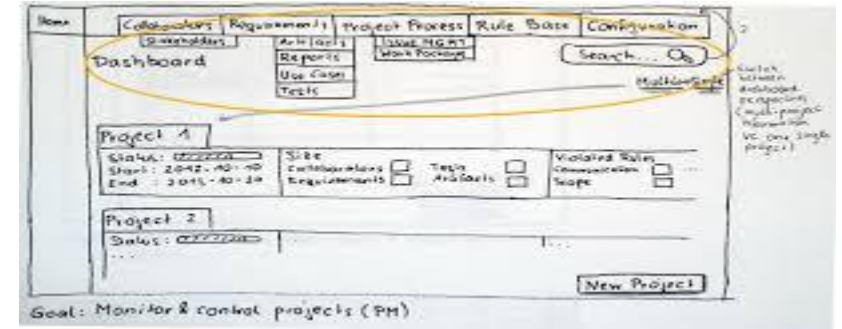
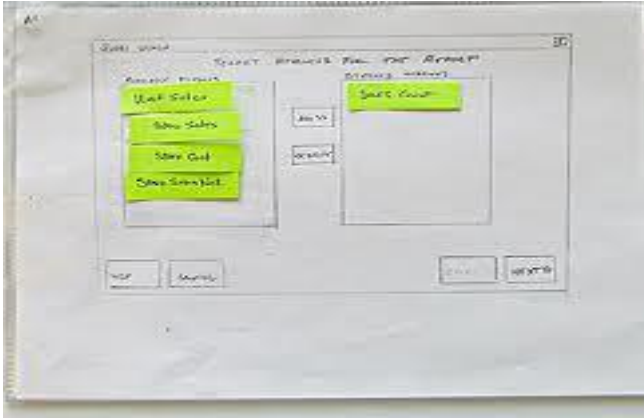
Thomas Madsen, @Th_Madsen, February, 2014

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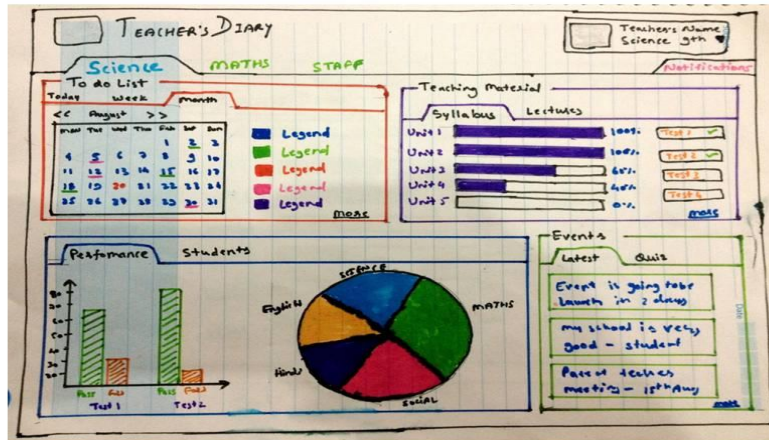
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Dashboard design



Paper Prototyping

- Anyone can do it
- With common tools and materials



Dashboard design - tips

A visual display
of
the most important information needed
to achieve one or more objectives
that has been
consolidated and arranged on a single screen
so it can be
monitored and understood at a glance.

Examples from customers (Dashboards)

OSL On-Time

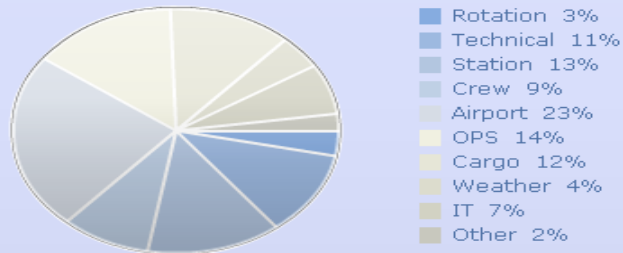
OSL Today
97%

Flights within 15 min

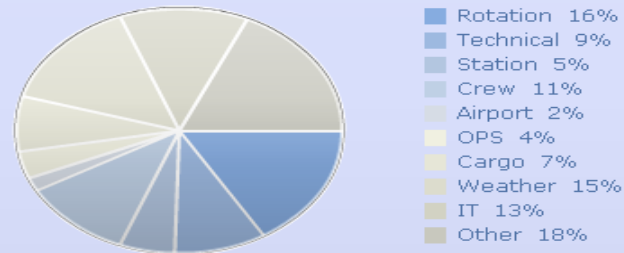
OSL This Month
95%

Flights within 15 min

OSL Delay Responsible Today
33 min Total Delay



OSL Delay Responsible This Month
377 min Total Delay



OSL Flights Today

27 Scheduled
2 Departured
0 Delayed > 15 min
0 Cancelled

OSL Punctuality Performance



Norwegian On-Time

Norwegian Today
88%

Flights within 15 min

Base On-Time Today

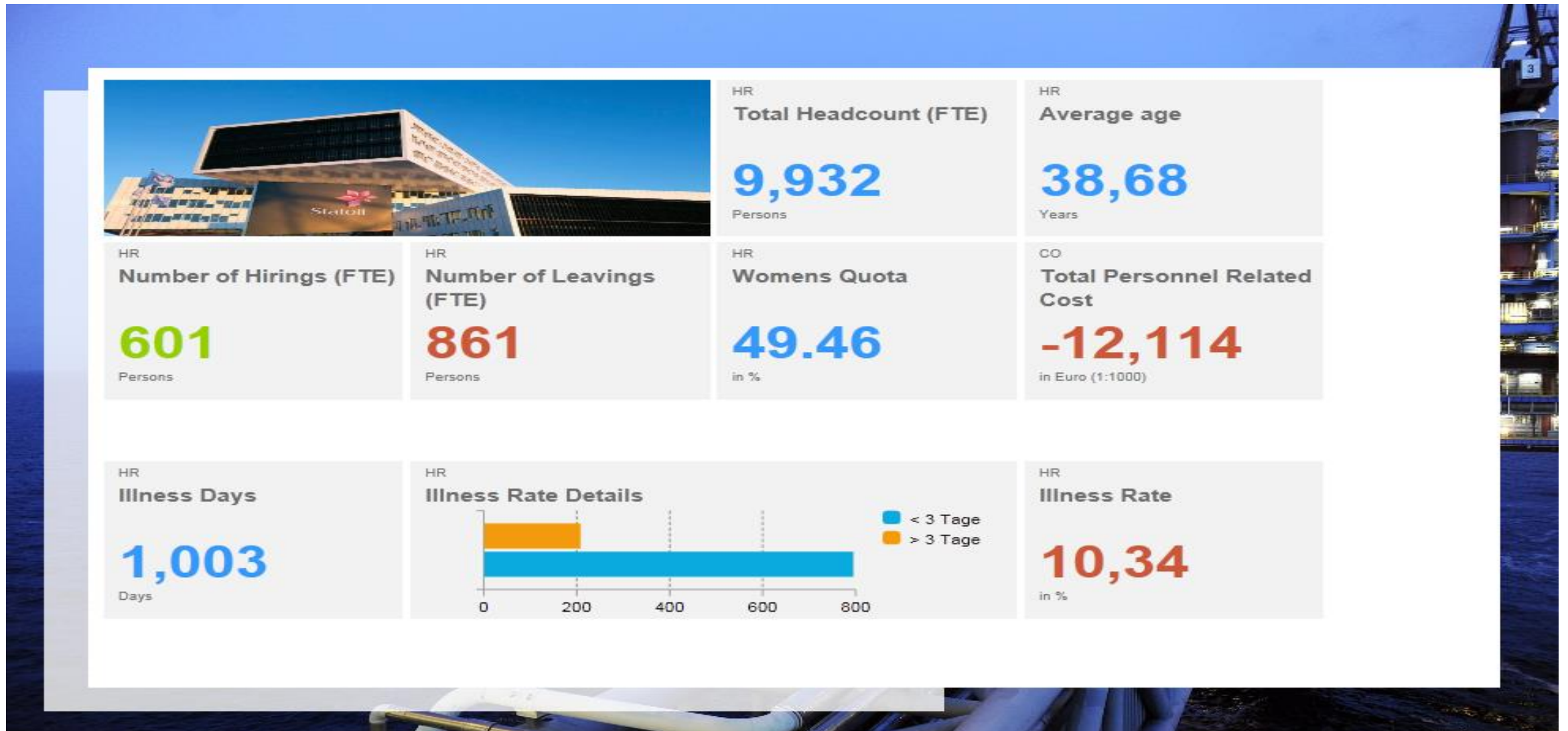
1.	OSL	97%
2.	BRG	94%
3.	TRD	92%
4.	SVG	89%
5.	WAW	85%
6.	CPH	80%
7.	STO	75%
8.	RYG	73%

Norwegian Flights This Month

1200 Scheduled
0 Departured
0 Delayed > 15 min
0 Cancelled
94.89% Regularity

Last updated: 28-mai-10 9:01

Examples from customers (Design Studio)



Dashboards and apps

Build engaging experiences

Build engaging, visual dashboards

- Powerful environment to build interactive and visually appealing analytics
- Rich set of controls: buttons, list boxes, dropdowns, crosstabs, charts, ...
- Use custom code to extend and build workflows

Portfolio

- Design Studio
- Dashboards (a.k.a., Xcelsius®)



Key differences

Dashboards:

- Can use static data (Excel)
- More data sources
- What-if functionality
- Mobile (html5) enabled, but not all functions and charts are available
- Some development in 2014, but not much
- Will still exist in the future, but with no new features (Like MS Paint and Notepad)

Design Studio:

- Eclipse-based development
- HTML5 all the way (any device)
- No offline possibility (yet)
- Best choice for HANA and BW
- Integration from Analysis for Office and Analysis OLAP
- Planned integration from Lumira
- Planned conversion from Dashboards-files to Design Studio-files
- ***The tool for the future!***

SAP BusinessObjects Dashboarding Strategy

Self Service Dashboarding



- Data is placed into the hand of the consumer
- Navigate and share datasets
- Create and share data visualizations
- Simple & intuitive

Solutions in BI4

- Exploration Views
- BI Workspaces

Professional Authored Dashboards



- Created by IT or Power User
- High expectation for mobility
- Can be broadly published
- Trusted data based on IT centric deployment

Solutions in BI4

- SAP BusinessObjects Dashboards
- SAP BEx Web Application Designer

→ **SAP BusinessObjects Design Studio**

3 Step Transition from Xcelsius to Design Studio (& Lumira)

2013 H1	2013 Q4	2014 Q2
SAP BW & HANA Customers Start adoption of Design Studio 1.1 <ul style="list-style-type: none"> • Best-In class BW & HANA support • Key analytical OLAP capabilities 	SAP BW & HANA Customers Accelerate adoption of DS 1.2 <ul style="list-style-type: none"> • Additional key HANA & BW capabilities • SDK 	SAP BW & HANA Customers DS 1.3 as key dashboarding solution <ul style="list-style-type: none"> • Integrated Planning • Key BEx capabilities enabled
Agnostic SAP BO Enterprise Customers Still on XCE <ul style="list-style-type: none"> • Leverage improved mobile/HTML5 capabilities 	Agnostic SAP BO Enterprise Customers Start adoption of DS 1.2 <ul style="list-style-type: none"> • UNIX support • Enhanced charting & SDK enable high end visuals • Light weight adhoc scenarios moving to Lumira 	Agnostic SAP BO Enterprise Customers Accelerate adoption of DS 1.3 <ul style="list-style-type: none"> • Offline Mobile Support (TBD) • Enhanced local calculations • High end visuals out of the box & via partners • Lumira key solution for adhoc use cases
Stand-Alone Single License XCE Start adoption of Lumira	Stand-Alone Single License XCE Adoption of Lumira	Stand-Alone Single License XCE Lumira as key solution

Recommendations for BW

Recommended for BW
and BW on HANA

Recommended as default clients when used with either SAP NetWeaver BW or SAP NetWeaver BW on HANA

Applies to:

- SAP BusinessObjects Analysis, edition for Office
- SAP BusinessObjects Analysis, edition for OLAP
- SAP BusinessObjects Design Studio

Recommended for
Reporting on BW
and BW on HANA

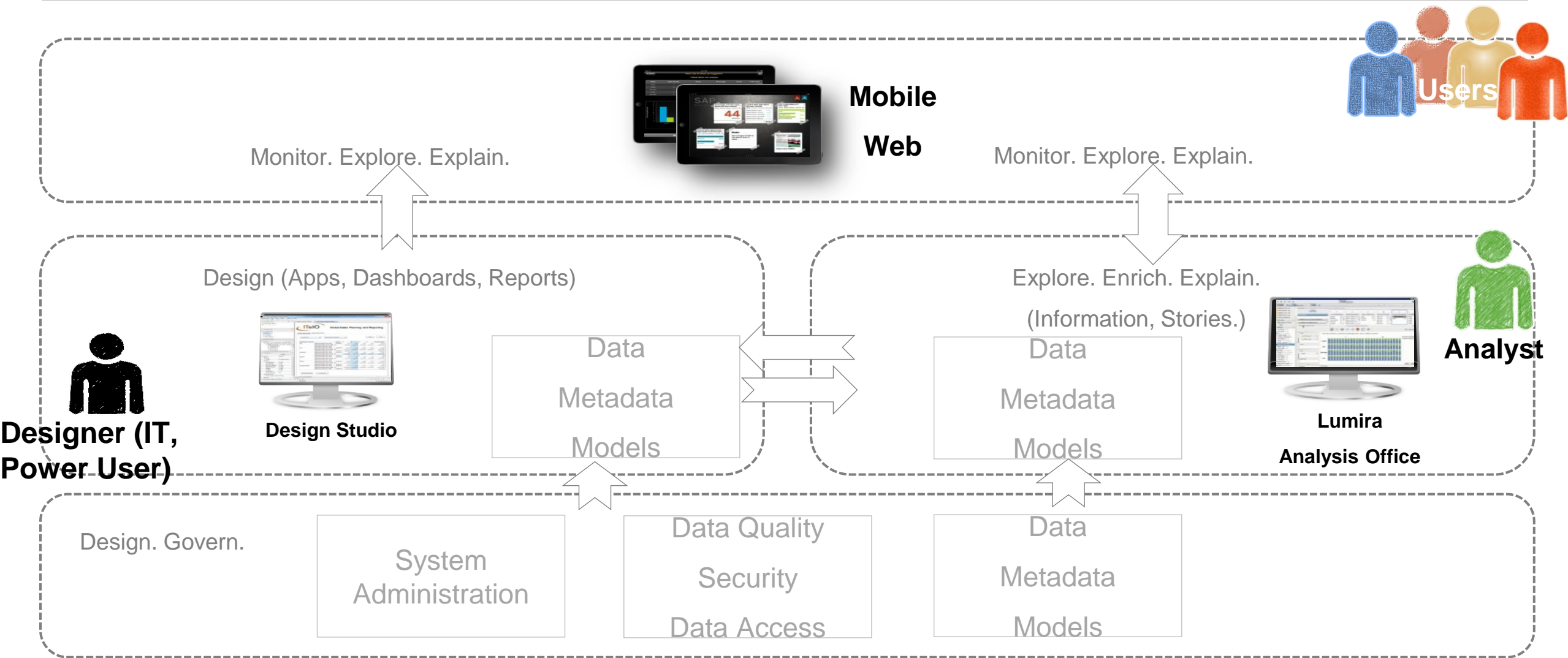
Recommended for specific reporting use cases when used with either SAP NetWeaver BW or SAP NetWeaver BW on HANA

Applies to:

- SAP Crystal Reports
- SAP BusinessObjects Web Intelligence (functional restrictions on BW apply)

Analysis, Visualization & App Design

Emerging Persona Relationships



Design Studio – The powerful choice for Designers & IT

Easily design centrally governable analytic content ranging from simplified templates via guided analytics to sophisticated applications

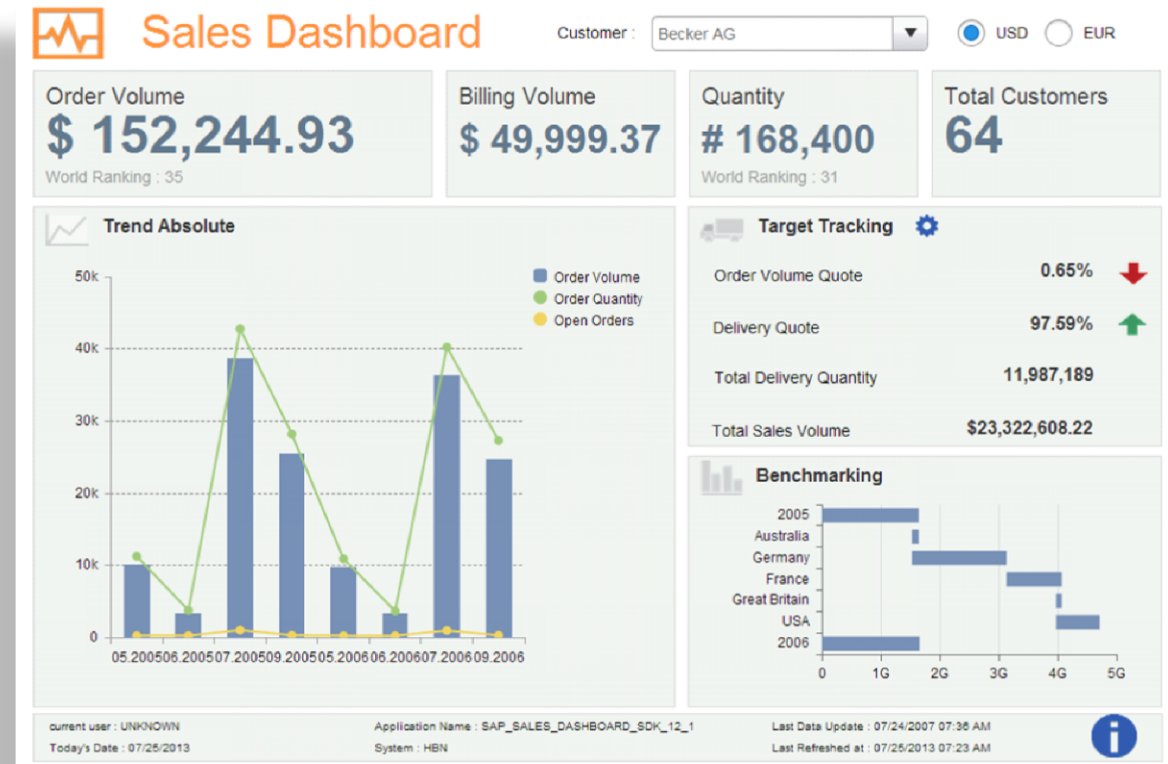
- Intuitive WYSIWYG design environment for designers
- Large set of design components (buttons, tabs, dropdown menus etc.)
- Extend via scripting language (subset of JavaScript)
- Enterprise Ready Life Cycle Management
- Central Supportability
- Theming & Customizing

iPad Support built-in

Apps are ready for immediate usage on standard web browsers and mobile devices (HTML5)

Direct & native support for HANA & BW

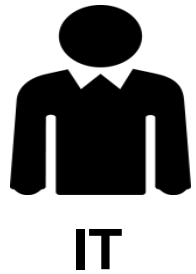
- Operates directly on BEx Queries, InfoCubes and Hana views
- Support for BW & HANA specific engine- & platform services



Design Studio 1.0:
General Availability since November 2012

SAP® BusinessObjects™ Design Studio

The powerful choice for consumers



CREATE

- **Consume and interact** with information **simplified personalizable BI templates**
- **Analyze** information on **mobile** devices
- Leverage **BI applications** for **planning** and **forecasting** scenarios
- User **product interoperability** to share results with other BI clients
- **Create** BI applications and **design** guided navigations
- Leverage **BI applications** for **planning** and **forecasting** scenarios
- **Consume and interact** with information using **simplified BI templates**
- Use **pre-built templates** with **guided** steps



Executive



Middle
Management



Business
Analyst



Individual
Contributor

CONSUME

Out-of-the-Box BW & HANA OLAP Capabilities

Native support for SAP BW & HANA OLAP capabilities

- BW & HANA: Hierarchy support(e.g. time dependent hierarchies, filter member selection on hierarchy nodes)
- BW: Currency conversion
- BW: Show results of conditions, get exception levels
- BW: Display time-dependent attributes

The screenshot shows an iPad app interface for 'ITeO Sales Analysis'. The main table displays sales data across various regions and years. The table has columns for 'Cal. year / month', 'Overall Result', and specific years (2012, 20121, 20122, 20123). The rows list regions like Worldwide, EMEA, Europe, France, Great Britain, London, Germany, Berlin, America, North America, USA, California, and New York. To the right of the table, there is a 'Date Filter' section with a dropdown menu set to '2012' and a 'Proceed' button. Below the date filter is a 'Drilldown' section with checkboxes for 'Channel', 'Country' (which is checked), 'Plant', 'Sales Organization', and 'Sold-To-Party'. The top of the app shows the status bar with 'iPad', signal strength, time '15:28', and battery level '46%'.

Cal. year / month	Overall Result	2012	20121	20122	20123
Region	EUR	EUR	EUR	EUR	EUR
▲ Worldwide	430,739,323.00	430,739,323.00	105,942,930.00	105,405,678.00	109,131,827.00
▲ EMEA	243,477,480.00	243,477,480.00	57,636,347.00	59,134,818.00	62,367,617.00
▲ Europe	243,477,480.00	243,477,480.00	57,636,347.00	59,134,818.00	62,367,617.00
▶ France	95,187,306.00	95,187,306.00	23,034,126.00	23,703,520.00	23,339,984.00
▲ Great Britain	52,042,979.00	52,042,979.00	10,136,908.00	11,806,287.00	16,126,264.00
London	52,042,979.00	52,042,979.00	10,136,908.00	11,806,287.00	16,126,264.00
▲ Germany	96,247,195.00	96,247,195.00	24,465,313.00	23,625,011.00	22,901,369.00
Berlin	96,247,195.00	96,247,195.00	24,465,313.00	23,625,011.00	22,901,369.00
▲ America	187,261,843.00	187,261,843.00	48,306,583.00	46,270,860.00	46,764,210.00
▲ North America	187,261,843.00	187,261,843.00	48,306,583.00	46,270,860.00	46,764,210.00
▲ USA	187,261,843.00	187,261,843.00	48,306,583.00	46,270,860.00	46,764,210.00
California	100,806,452.00	100,806,452.00	28,715,733.00	24,564,587.00	24,078,407.00
New York	86,455,391.00	86,455,391.00	19,590,850.00	21,706,273.00	22,685,803.00

iPad App created with Design Studio featuring multiple BW hierarchies

Initial View Editor

For SAP HANA and SAP BW DataSource

Convenient and intuitive editing of HANA views and BW InfoProviders within Design Studio

- Via drag and drop
- Add additional filters
- Change display to key or text
- Sorting, defining scaling factors and calculating totals for measures
- Pause refresh while editing initial view
- Reset changed view to the initial status
- Create crosstab and chart directly from initial views
- Configure options for chart
- Activate hierarchy display

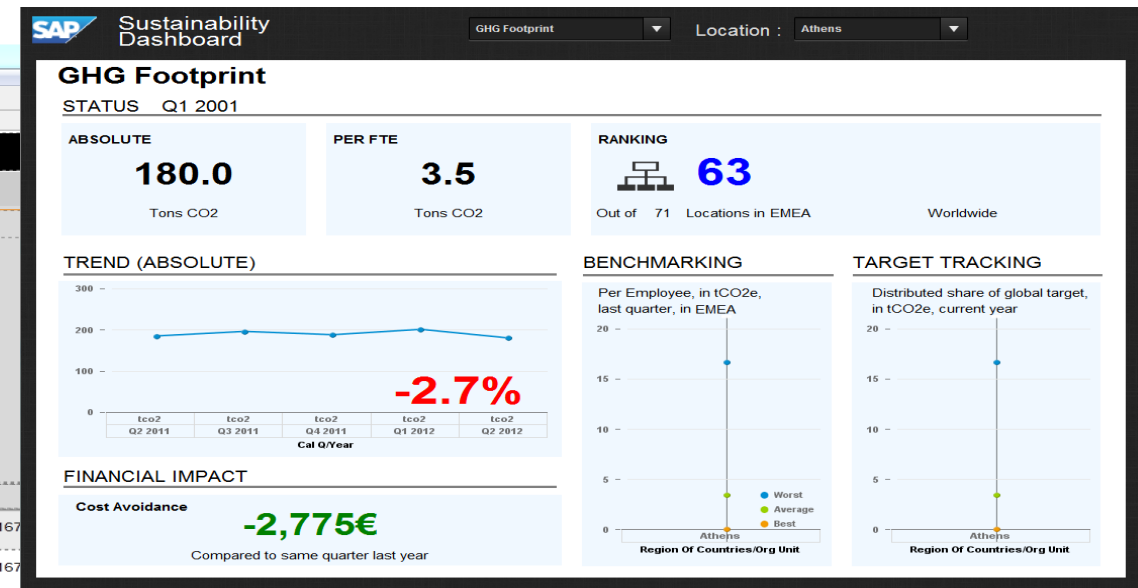
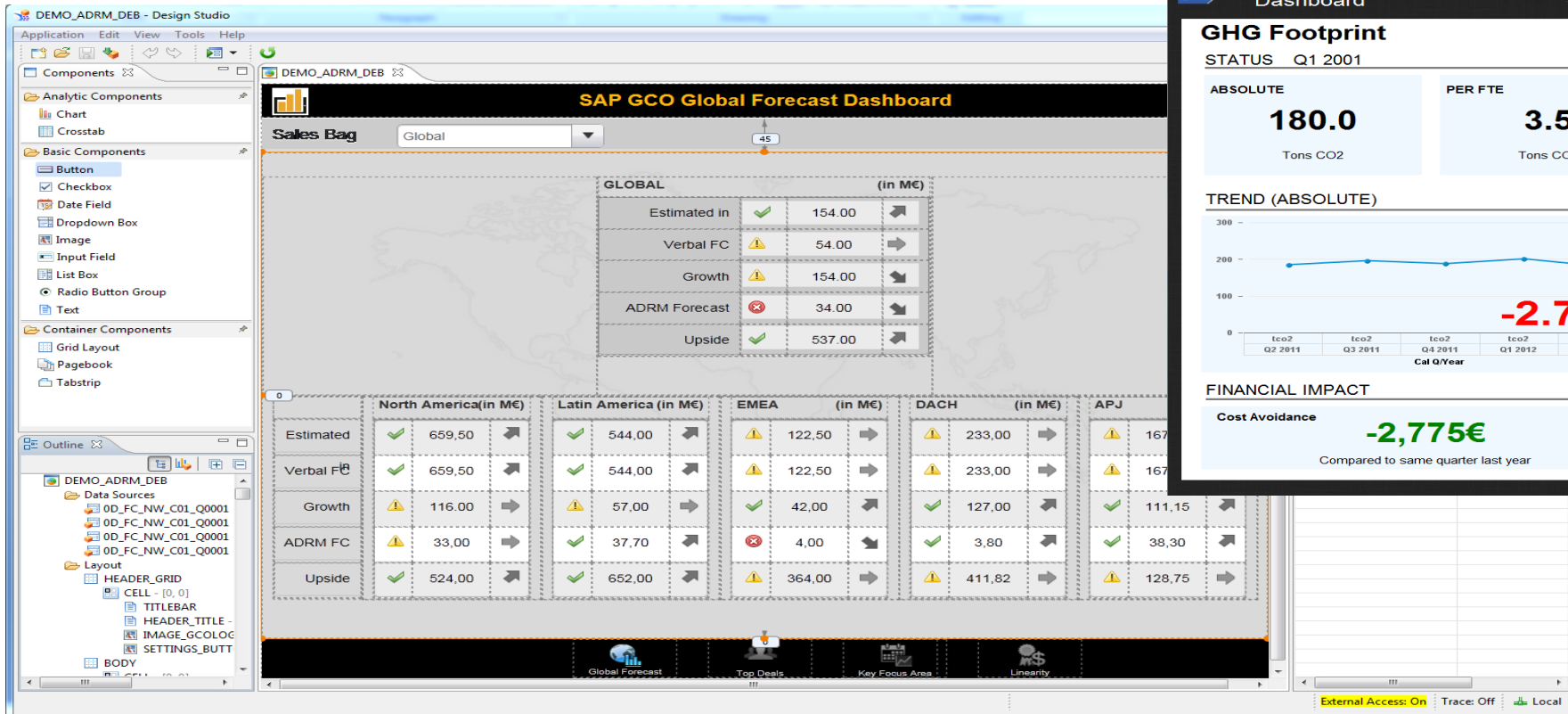
The screenshot displays the 'Edit Initial View of bics.basic/BICS_FOODMART - DS_2' window. It features a left sidebar with a list of measures and dimensions, a central 'Columns' pane showing 'Store Sales', 'Unit Sales', and 'store_cost', and a 'Live Preview (paused)' table. A context menu is open over the 'store_cost' measure, offering options like 'Remove', 'Decimal Places', 'Scaling Factor', 'Calculate Totals As', and 'Sort'. The 'Sort' option is further expanded to show 'Ascending' and 'Descending'. At the bottom, there are buttons for 'OK + Create Crosstab', 'OK + Create Chart', 'OK', and 'Cancel'. A 'Pause Refresh' checkbox is also visible in the top right of the preview area.

Product	Store Sales	Unit Sales	store_cost
Horatio Avocado Dip	219.42	69.00	82.13
East BBQ Potato Chips	144.54	66.00	57.15
...ed Tuna in Water	80.64	63.00	33.80
...ip	172.36	62.00	70.46
... Puffs	180.42	62.00	72.09
... Cream Sandwich	174.60	60.00	70.51
Tell Tale Lim	113.28	59.00	44.70
Nationeel Raisins	108.56	59.00	44.78
Fabulous Berry Juice	149.86	59.00	59.86
Fort West Chocolate Chip Cookies	41.30	59.00	15.74
Red Wing Paper Cups	91.45	59.00	36.36
Atomic Bubble Gum	103.24	58.00	39.54
Token Diet Cola	189.81	57.00	77.93
Nationeel BBQ Potato Chips	31.35	57.00	12.82
National Egg Substitute	78.09	57.00	31.59
Colony Wheat Bread	213.18	57.00	83.27
Excel Monthly Home Magazine	104.72	56.00	40.50
High Quality 75 Watt Lightbulb	120.40	56.00	47.51
Tri-State Walnuts	123.76	56.00	49.02
	49.28	56.00	20.14

Free Form Layouting Options

Intuitive layouting options

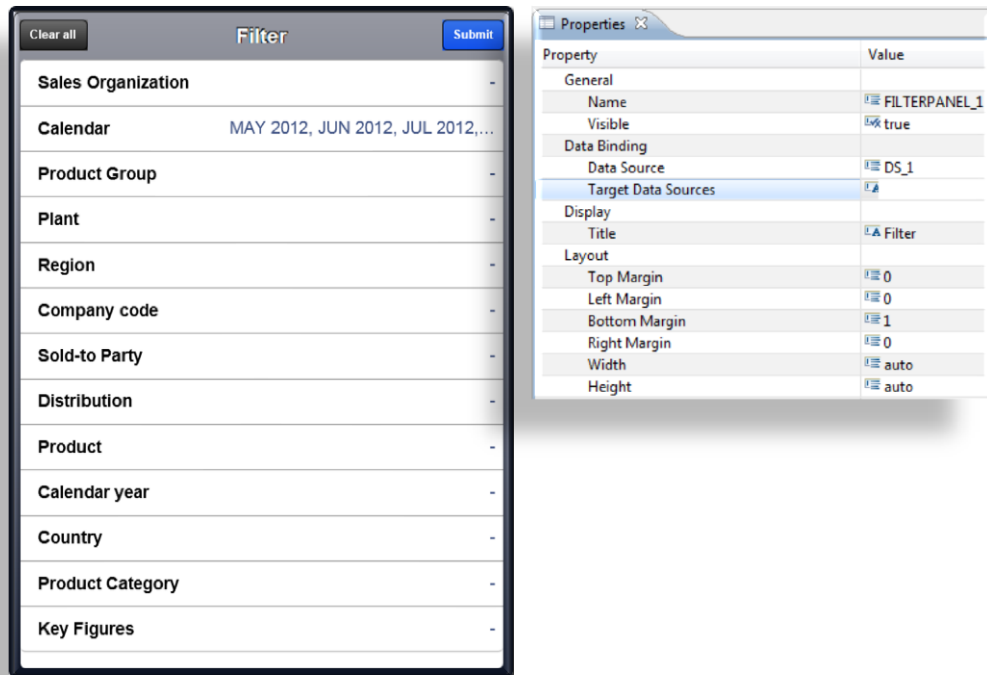
- WYSIWYG (embedded runtime to enable what you see is what you get) design principle
- Pixel-exact layouting
- Dynamic layouting via docking position
- Proportional grid layouting



Filter Panel and Dimension Panel

Components for comfortable and intuitive data filtering

- Convenient for designers to define without any coding
- Easy-to-use for end users to select data
- Can be combined with Pop Up component for typical iPad scenarios
- True data binding between data source and filter panel



Designtime

The Runtime interface shows the 'Filter' panel on the right, which is currently empty. On the left, a data table is displayed with the 'open filter' checkbox checked. The table has columns for Country, Product Category, and Net Value Stat. Curr. (EUR). The data is grouped by Country (DE, FR, GB, US) and Product Category (Mobile Devices, Monitors, Notebooks, Result).

Country	Product Category	Net Value Stat. Curr. (EUR)
DE	Mobile Devices	16,808,664.00
	Monitors	15,253,207.00
	Notebooks	14,924,486.00
	Result	46,986,357.00
FR	Mobile Devices	13,516,383.00
	Monitors	17,533,300.00
	Notebooks	14,091,212.00
	Result	45,942,895.00
GB	Mobile Devices	12,110,600.00
	Monitors	10,381,250.00
	Notebooks	7,597,401.00
	Result	30,089,451.00
US	Mobile Devices	31,195,003.00
	Monitors	34,923,925.00
	Notebooks	31,987,507.00

Runtime

Pre-delivered templates

Pre-delivered templates to enable rapid implementation

- Template for applications running on desktop
- Templates for applications running on iPad



Desktop Template Example

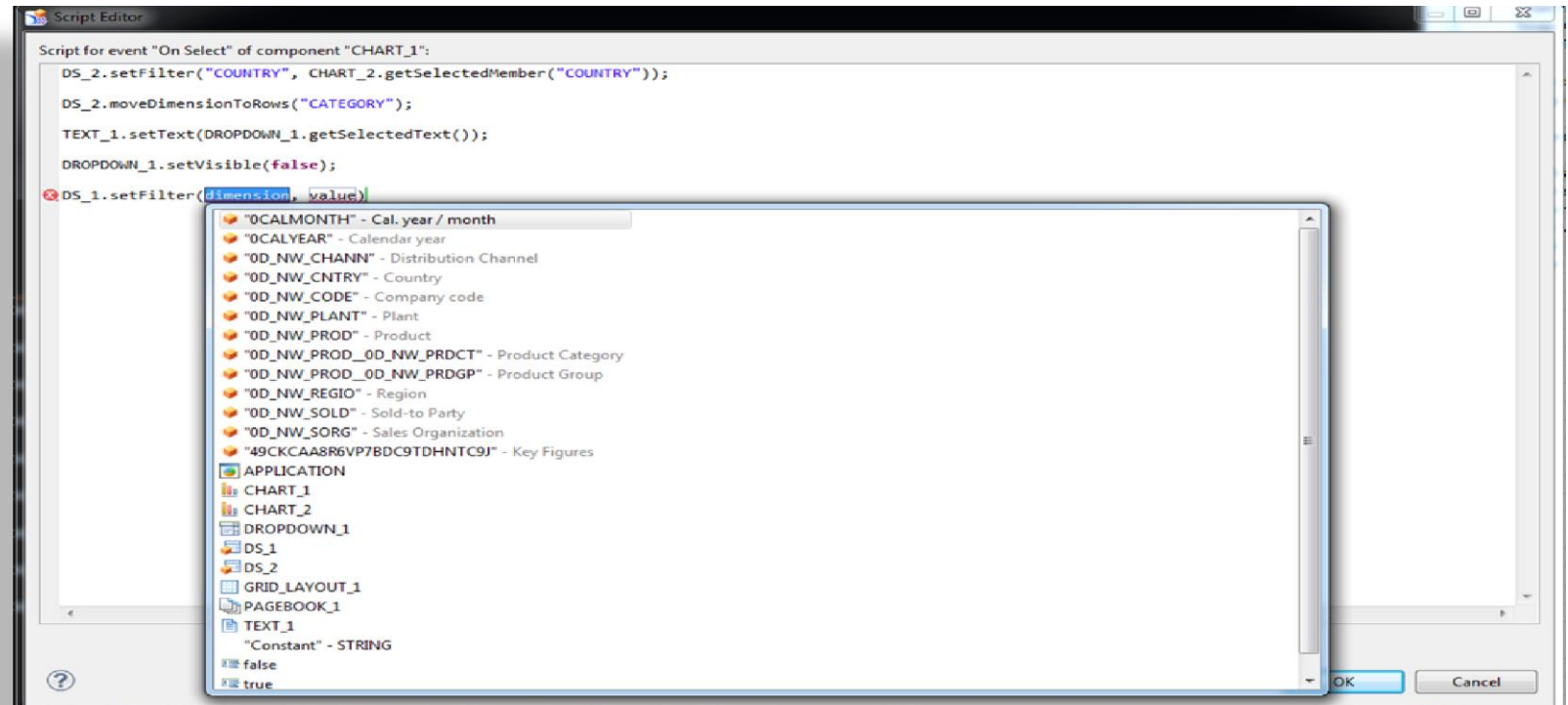


iPad Template Example

Comfortable Scripting Engine & Script Editor

Flexible defining interactions between design components

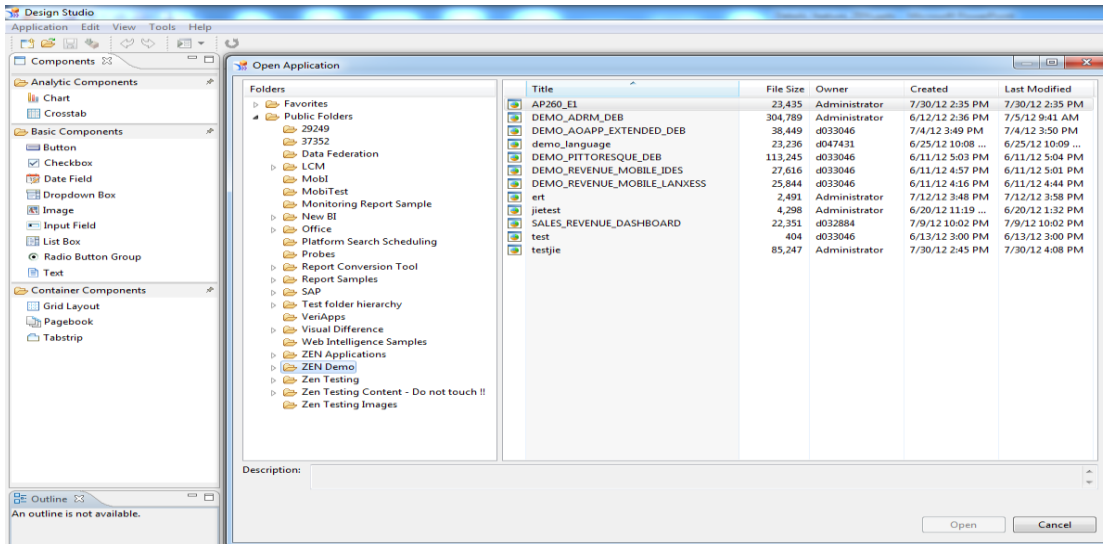
- JavaScript based command editor
- Easy-to-use scripting wizard
- Intuitive content assistance via CTRL+SPACE
- Display live data for selection
- Built-in documentation for script API
- Automatic syntax check



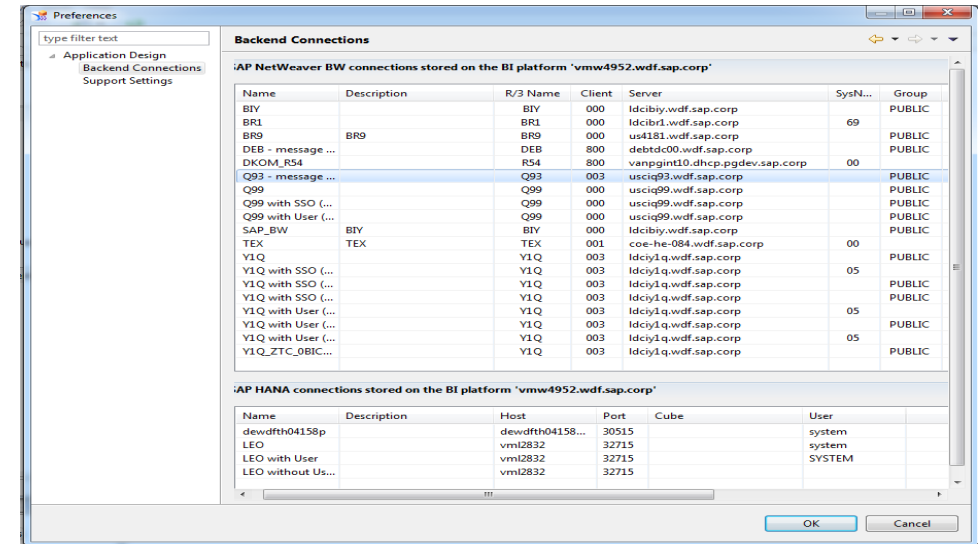
Integrating with SAP BusinessObjects BI Platform

Enable application management on BI Platform

- Enable multi user-access to applications
- Storage of applications and images
- Embedded runtime on BI Platform
- Central management of system connections



Open/save applications on BI Platform

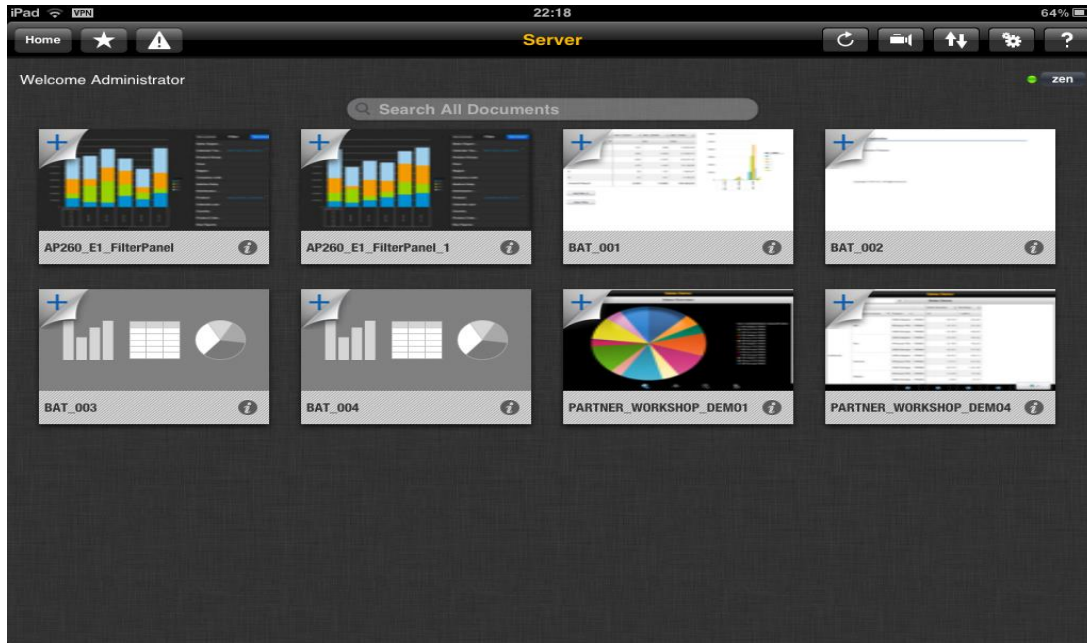


System connections on BI Platform

Integration into SAP BI Mobile Solutions

Convenient and unified user access for large mobile community:

- Download and access Design Studio applications via SAP BI Mobile Solutions (native iOS application)
- Leverage the collaboration functionality (e.g. annotation, SAP StreamWork etc)
- Unified usability through SAP BI Mobile Solutions
- Enable large mobile community



Overview page on SAP BI Mobile



embedded within SAP BI Mobile

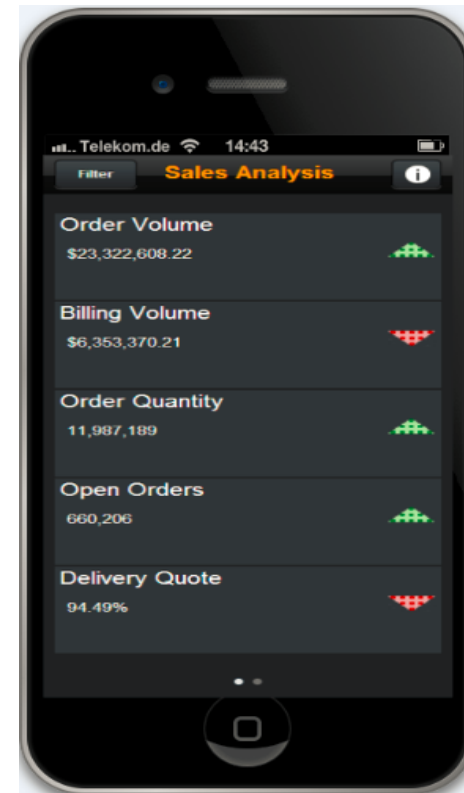
iPhone Support

Pre-delivered iPhone templates for rapid implementation

- iPhone template using Tabstrip as component
- iPhone template using Pagebook as component



Template using Tabstrip



Template using Pagebook

Key features for release 1.2

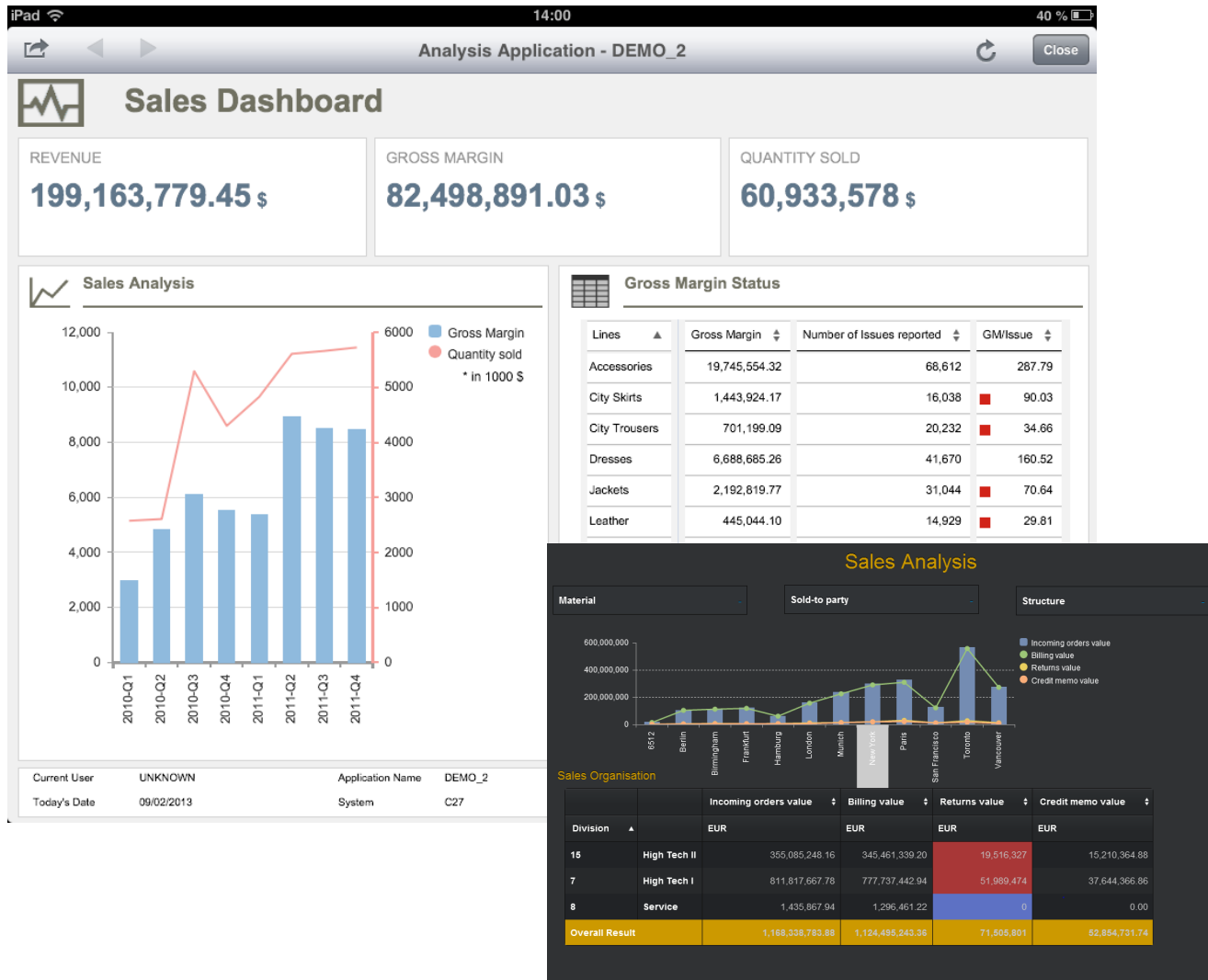


Chart:

- Dual axis chart
- Radar, Bubble & Scatter chart (re-add based on HTML5)
- Set axis scaling (min/max values)
- Bind series to individual rows/columns in a data set

Crosstab:

- Set column width, enable hierarchy navigation, sorting, column resizing for end user
- Exception Highlighting

Navigation Panel

- Analytical Drill Down capabilities

Scripting:

- Variable initialization
- Query background processing for user friendly performance

Export to Excel or CSV

- Only possible with crosstab data

UNIX

- Access UNIX data and Deployment on BIP

SDK

- Creating custom components and deployment on BI Platform

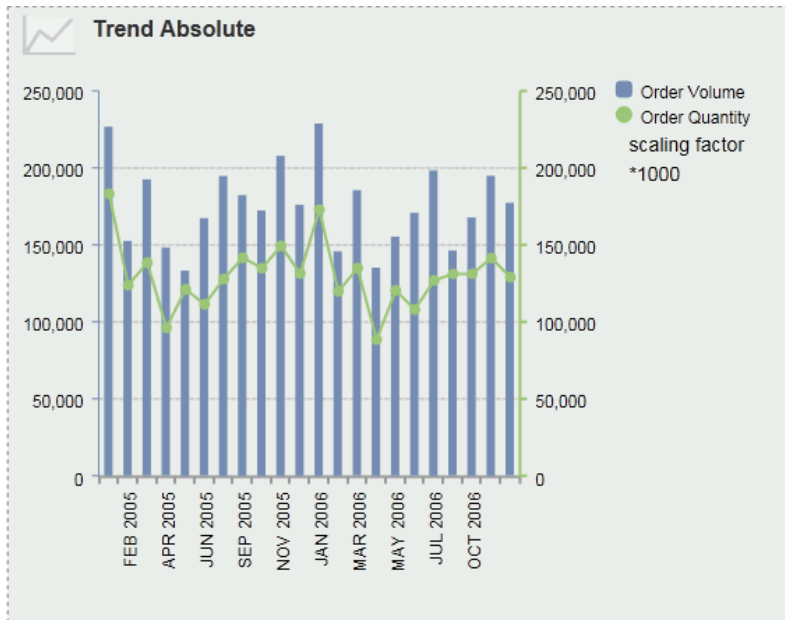
Initial View Editor

- Set Read Mode to posted value to enable cascading in HANA

Enhanced Charting Capabilities for release 1.2

More chart types and charting capabilities

- Dual axis chart
- Radar, Bubble & Scatter chart (re-add based on HTML5)
- Axis scaling (min/max values)
- Measure picker: Bind series to individual rows/columns in a data set (as opposed to binding the complete chart against a complete query data set as today)
- Chart background colors



Dual Axis Chart

The "Axis Scaling" configuration window shows settings for two axes. Both "Scale Axis 1" and "Scale Axis 2" are checked. The "Max" value for both is set to 250000, and the "Min" value for both is set to 0.

Axis	Scale	Max	Min
Scale Axis 1	<input checked="" type="checkbox"/>	250000	0
Scale Axis 2	<input checked="" type="checkbox"/>	250000	0

Axis Scaling

The "Measure Picker" dialog box allows selecting data from a result set. The table below shows the selected data for "Order Volume" and "Order Quantity".

Calendar Year/Month	Order Volume	Order Quantity
JAN 2005	213,231.17	183,380
FEB 2005	143,681.67	124,206
MAR 2005	181,143.92	138,748
APR 2005	130,614.47	106,556

Active Selections:

- Key Figures = "Order Volume"
- Key Figures = "Order Quantity"

Buttons: OK, Cancel, Delete

Measure Picker

Enhanced Crosstab Functionalities

More individual and flexible settings

- Enable/Disable for hierarchical navigation ,sorting and column resizing function
- Exceptions which are defined in SAP BW backend or in SBOP Analysis Office can be activated in crosstab setting
- The width of each column within a crosstab can be adjusted individually
- Crosstab data can be exported as excel or csv data via scripting

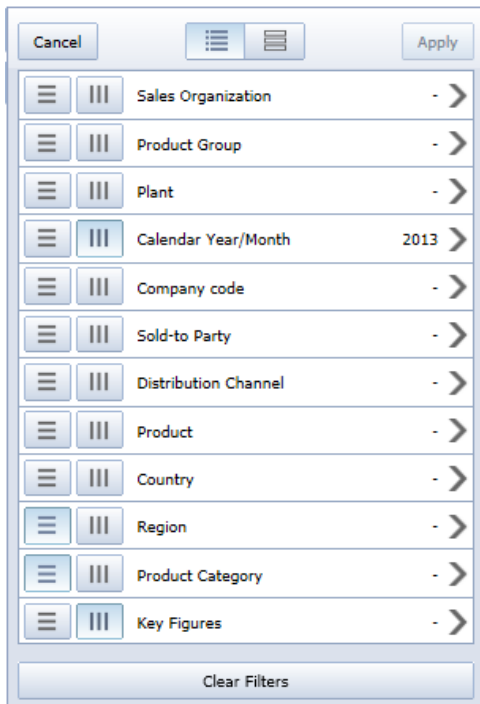
Crosstab		Chart				
Navigation		Sort	Exception	Status Icons	Export	
	Calendar Year/Month	Net Value				
		2013	1.2013	2.2013	3.2013	4.2013
Region	Product Category	EUR	EUR	EUR	EUR	EUR
Worldwide	MOB	134,295,729.00	33,289,630.00	33,355,250.00	37,938,344.00	29,712,505.00
	MON	143,477,924.00	32,424,640.00	33,438,832.00	36,763,701.00	40,850,751.00
	NB	134,657,468.00	37,768,885.00	29,238,865.00	30,972,159.00	36,677,559.00
	Result	412,431,121.00	103,483,155.00	96,032,947.00	105,674,204.00	107,240,815.00
EMEA	MOB	73,460,131.00	16,815,041.00	18,439,161.00	19,158,278.00	19,047,651.00
	MON	80,638,396.00	18,484,035.00	17,828,764.00	21,389,338.00	22,936,259.00
	NB	69,216,754.00	20,124,786.00	15,413,034.00	13,459,612.00	20,219,322.00
	Result	223,315,281.00	55,423,862.00	51,680,959.00	54,007,228.00	62,203,232.00
Europe	MOB	73,460,131.00	16,815,041.00	18,439,161.00	19,158,278.00	19,047,651.00
	MON	80,638,396.00	18,484,035.00	17,828,764.00	21,389,338.00	22,936,259.00
	NB	69,216,754.00	20,124,786.00	15,413,034.00	13,459,612.00	20,219,322.00
	Result	223,315,281.00	55,423,862.00	51,680,959.00	54,007,228.00	62,203,232.00
France	MOB	31,173,338.00	8,467,498.00	8,664,844.00	6,936,509.00	7,104,487.00
	MON	32,138,778.00	7,383,609.00	6,229,700.00	7,690,325.00	10,835,144.00
	NB	27,840,590.00	7,891,448.00	4,998,125.00	6,474,034.00	8,476,983.00
	Result	91,152,706.00	23,742,555.00	19,892,669.00	21,100,868.00	26,416,614.00

Gross Margin Status			
Lines	Gross Margin	Number of Issues reported	GM/Issue
Accessories	19,745,554.32	68,612	287.79
City Skirts	1,443,924.17	16,038	90.03
City Trousers	701,199.09	20,232	34.66
Dresses	6,688,685.26	41,670	160.52
Jackets	2,192,819.77	31,044	70.64
Leather	445,044.10	14,929	29.81
Outerwear	2,448,085.33	23,586	103.79
Overcoats	1,630,101.48	18,563	87.81
Shirt Waist	9,638,634.74	38,146	252.68
Sweat-T-Shirts	30,210,625.13	24,280	1,244.26
Sweaters	5,422,534.29	34,397	157.65
Trousers	1,931,683.35	24,693	78.23
Total Result	82,498,891.03	356,190	2,597.86

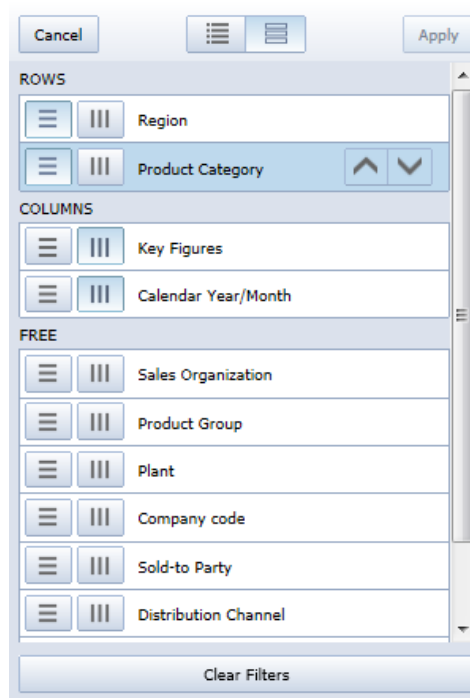
Navigation Panel

Extend filter panel for navigation purpose

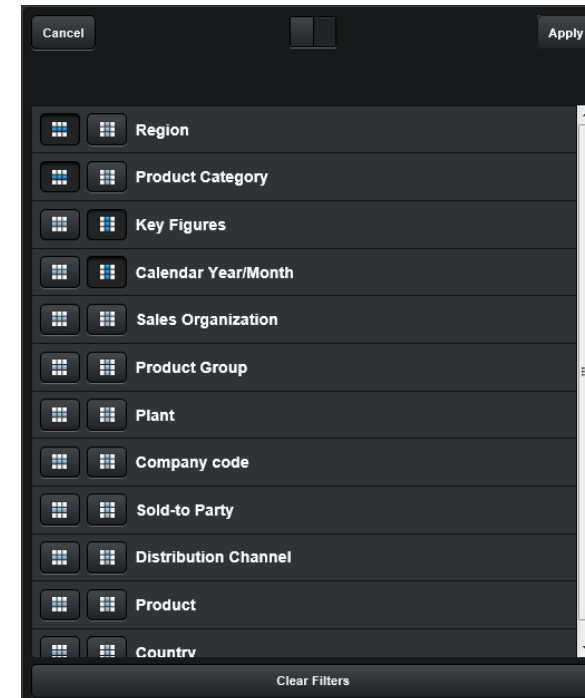
- Add the navigation mode to filter panel
- Very convenient to add or remove dimensions/key figures to rows/columns
- Sequence of the dimensions/key figures can be adjusted
- Swap axis is possible
- Every action is done by click, drag and drop is not possible



Select dimensions or key figures

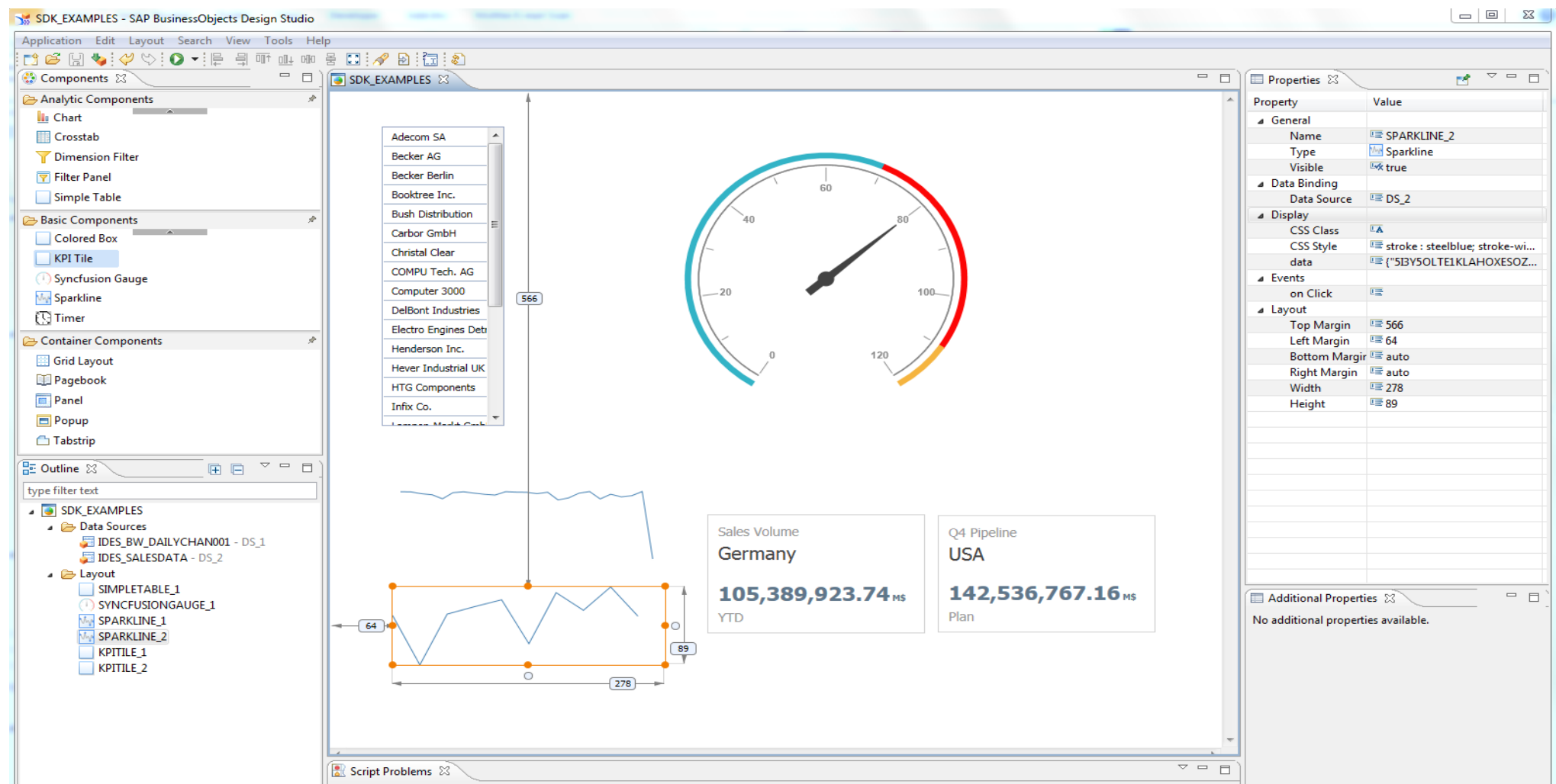


Re-order dimensions or key figures



Look based on the selected theme

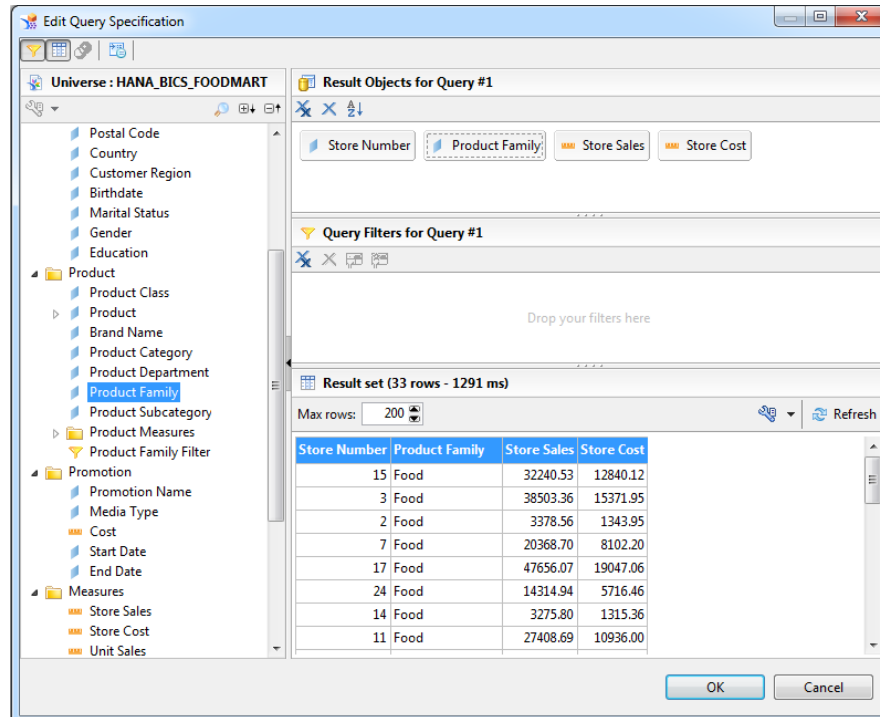
SDK Example Components on DS Canvas



Universe as Data Source

UNIX Support in Design Studio

- UNIX can be defined as the additional data source in addition to SAP BW and SAP HANA
- Specific query needs to be defined for the selected universe
- Using Initial View to define dimensions
- Deployment on BI Platform



UNIX query panel

Product Family	Store Number	Store Sales	Store Cost
Food	15	32,240.53	12,840.12
	3	38,503.36	15,371.95
	2	3,378.56	1,343.95
	7	20,368.70	8,102.20
	17	47,656.07	19,047.06
	24	14,314.94	5,716.46
	14	3,275.80	1,315.36
	11	27,408.69	10,936.00
	13	9,319.07	3,725.82
	6	3,627.24	1,446.50
Non-Consumable	22	419.43	168.81
	Total	200,512.39	80,014.23
	11	7,418.55	2,949.93
	17	12,792.14	5,165.68
	3	9,771.80	3,890.60
	15	8,394.31	3,349.31
	14	791.66	317.32
	7	5,448.93	2,194.10
	13	2,492.47	973.51
	22	114.82	44.58
Drink	6	927.11	366.54
	24	3,348.45	1,337.08
	2	947.59	385.74
	Total	52,447.83	20,974.39
	24	1,784.64	719.66
	2	413.08	167.15
	7	2,510.93	1,010.09
	11	3,293.74	1,313.83
	13	1,027.25	413.36

Deployed on BI Platform

Design Studio UNX Support

Accessing UNX Query Panel from within DS

Visualize UNX Data in DS Crosstab

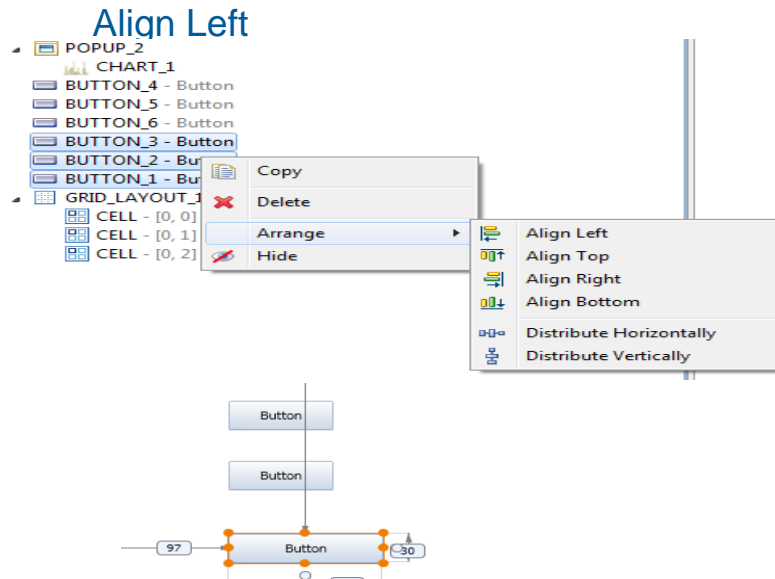
The screenshot displays the SAP BusinessObjects Design Studio interface. The 'Create Query Specification' dialog is open, showing the 'Universe' tree on the left with 'Sales Order' selected. The 'Result Objects for Query #1' pane shows 'Account Number', 'Product Category Name', 'Product Subcategory Name', and 'Order Qty'. The 'Query Filters for Query #1' pane is empty. The 'CA_DS1TEST_1' data source is selected in the 'Layout' pane. The 'CROSSTAB_1 - DS_1' visualization is shown, displaying a table with columns for 'Product Category Name', 'Components', 'Accessories', and 'Clothing'. The table lists various cities and their corresponding sales data. The 'Properties' pane on the right shows the 'CROSSTAB_1' properties, including 'Name', 'Type', 'Visible', 'Data Binding', 'Optimization', 'User Interaction', 'Display', 'Events', and 'Layout'.

Product Category Name	Components	Accessories	Clothing		
City	Sub Total	Order Qty	Sub Total	Order Qty	Sub Total
Detroit	100,526,394.46	6,110.00	18,054,253.66	1,905.00	47,890.68
Bothell	1,799,637.01	123.00	1,059,701.55	191.00	1,539.86
Bellevue	39,562,459.68	2,270.00	7,134,844.82	695.00	18,714.21
Calgary	24,736,466.83	1,835.00	9,370,505.45	1,843.00	20,924.07
Bordeaux	65,467,065.17	3,578.00	13,055,541.93	2,005.00	31,047.32
Redmond	11,383,847.97	662.00	4,465,112.18	421.00	9,136.11
Cambridge	135,216,072.52	8,142.00	30,881,619.20	3,663.00	74,879.67
Nevada	106,943,734.39	5,988.00	29,773,631.42	3,263.00	68,623.57
Memphis	52,599,119.75	3,350.00	13,462,683.67	1,660.00	30,984.65
Ottawa	57,666,471.40	3,200.00	16,900,663.87	2,029.00	33,702.02
Melbourne	12,390,196.65	896.00	3,666,651.49	672.00	5,181.34
Renton	7,870,153.48	482.00	1,891,772.62	250.00	4,180.11
Berlin	19,758,783.80	1,210.00	10,194,437.73	1,464.00	16,626.55
San Francisco	60,804,034.03	3,446.00	17,114,469.07	1,661.00	36,378.68
Duluth	93,733,068.07	5,783.00	26,309,848.99	3,445.00	58,037.63
Portland	34,356,522.57	1,969.00	7,258,925.92	673.00	17,066.13
Total	824,814,02..	49,044.00	210,594,66...	25,840.00	474,912..

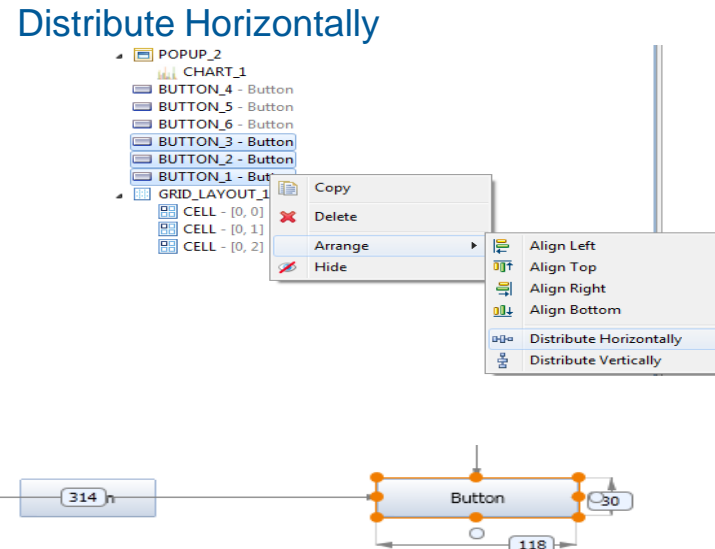
Align Design Studio Components in Layout

Comfortable align and distribute components in layout

- Convenient for designers to organize components without writing exact margin
- All type of components can be aligned and distributed
- Components within the same container or under the same root can be aligned and distributed
- Components can be automatically maximized
- Alignment and distribution can be done via context menu in Layout or per buttons in Design Studio menu



Objects are aligned left based on the object which has the most small left margin

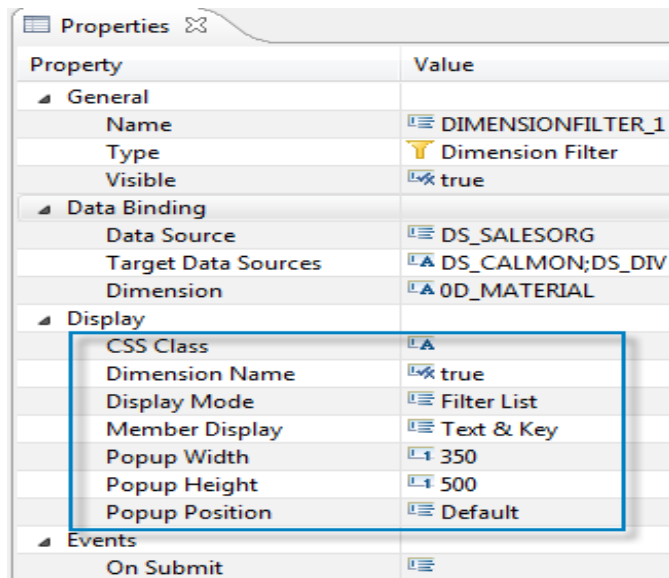


Object in the middle will be moved to the center

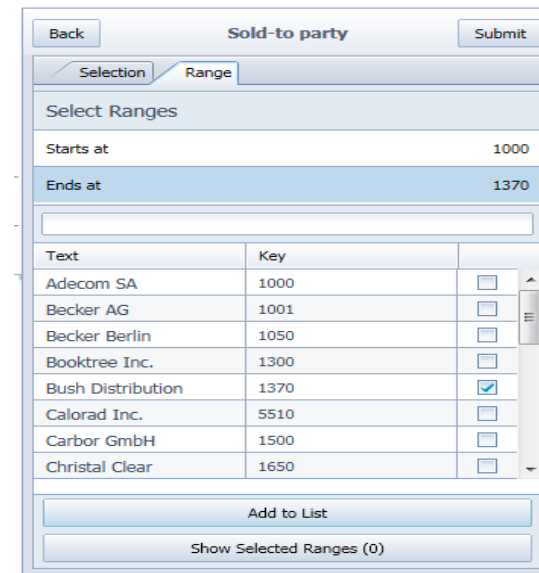
Enhancements for Component Filter Panel

More convenient to use filter panel for selecting data

- Member display could be defined with key, text or both
- On Submit event enables triggering interactions
- Dimension name could be hide or shown
- Ranges are able to be defined in addition to the multiple selection of members
- Defined ranges and selected members could be deleted, included or excluded



Design Time in the property sheet

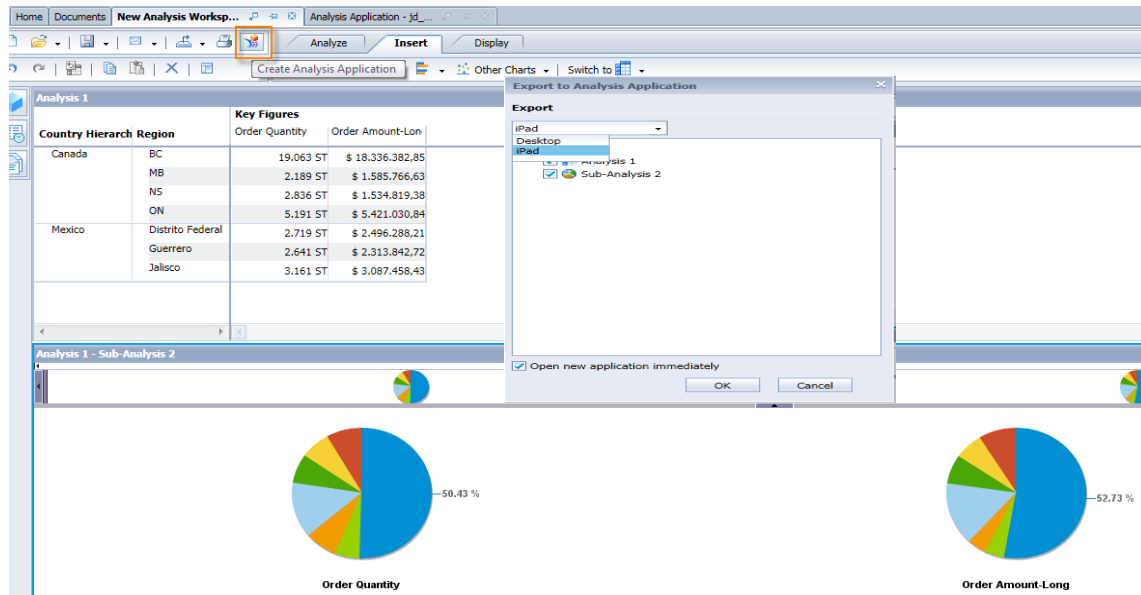


Runtime

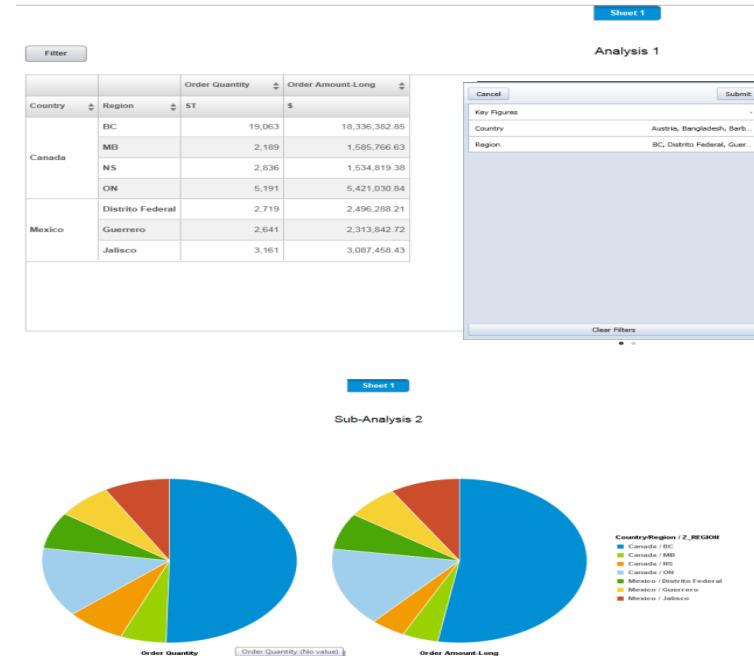
Interoperability scenario with Analysis, edition for OLAP

Generate Design Studio applications out of AOLAP workspace

- Export AOLAP workspace as design studio application for mobile devices or desktops
- Design Studio applications are stored on BI Platform
- Filter member values are taken over from AOLAP workspace to Design Studio applications
- Further editing generated design studio applications within eclips-based design enviroment



AOLAP Analysis Workspace

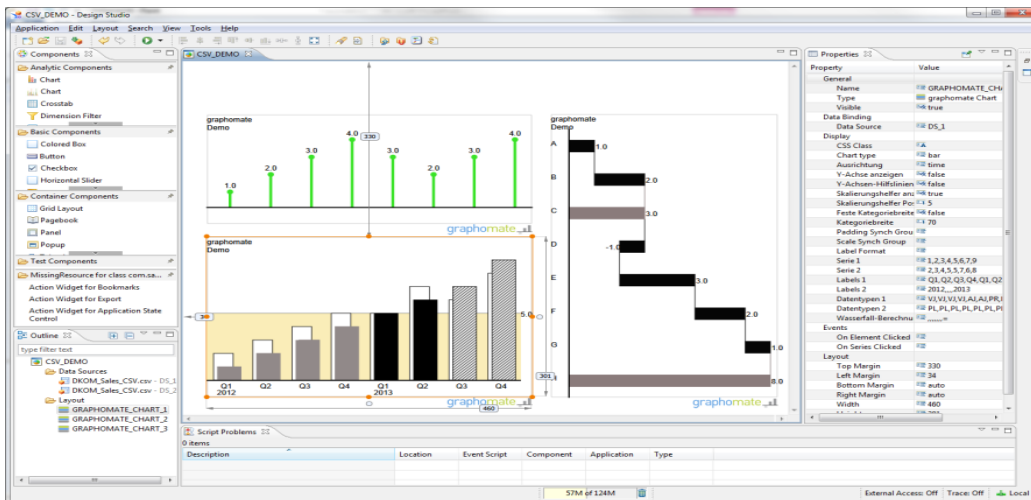


Generated iPad application with 2 pages and pre-set filter values

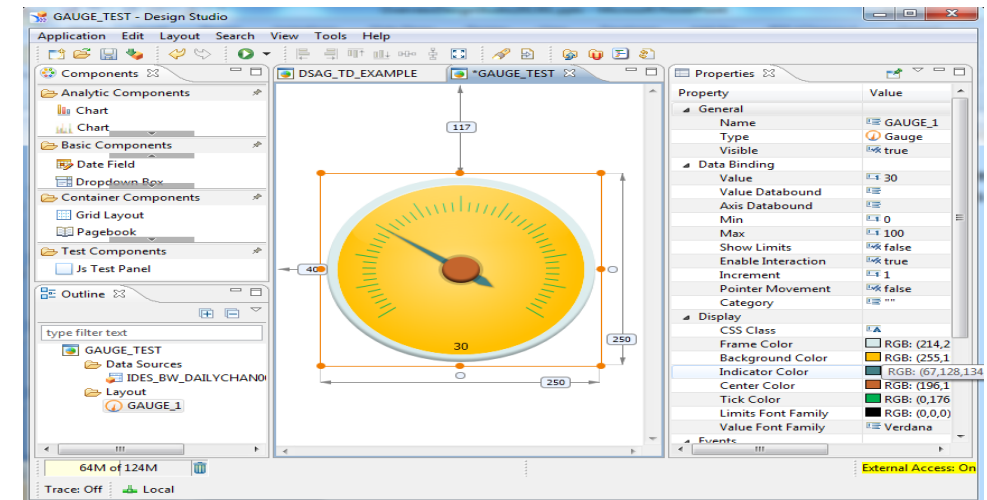
Software Development Kit

Software Development Kit (SDK) for customers and partners

- Using SDK from SAP to develop own components for Design Studio
- Custom component library is a eclipse plug-in, but no Java skills required
- Convenient deployment through „install new software“ in Design Studio
- Containing Description XML file, JavaScript files, Images and CSS files
- Deployment possible with BI Platform in release 1.2

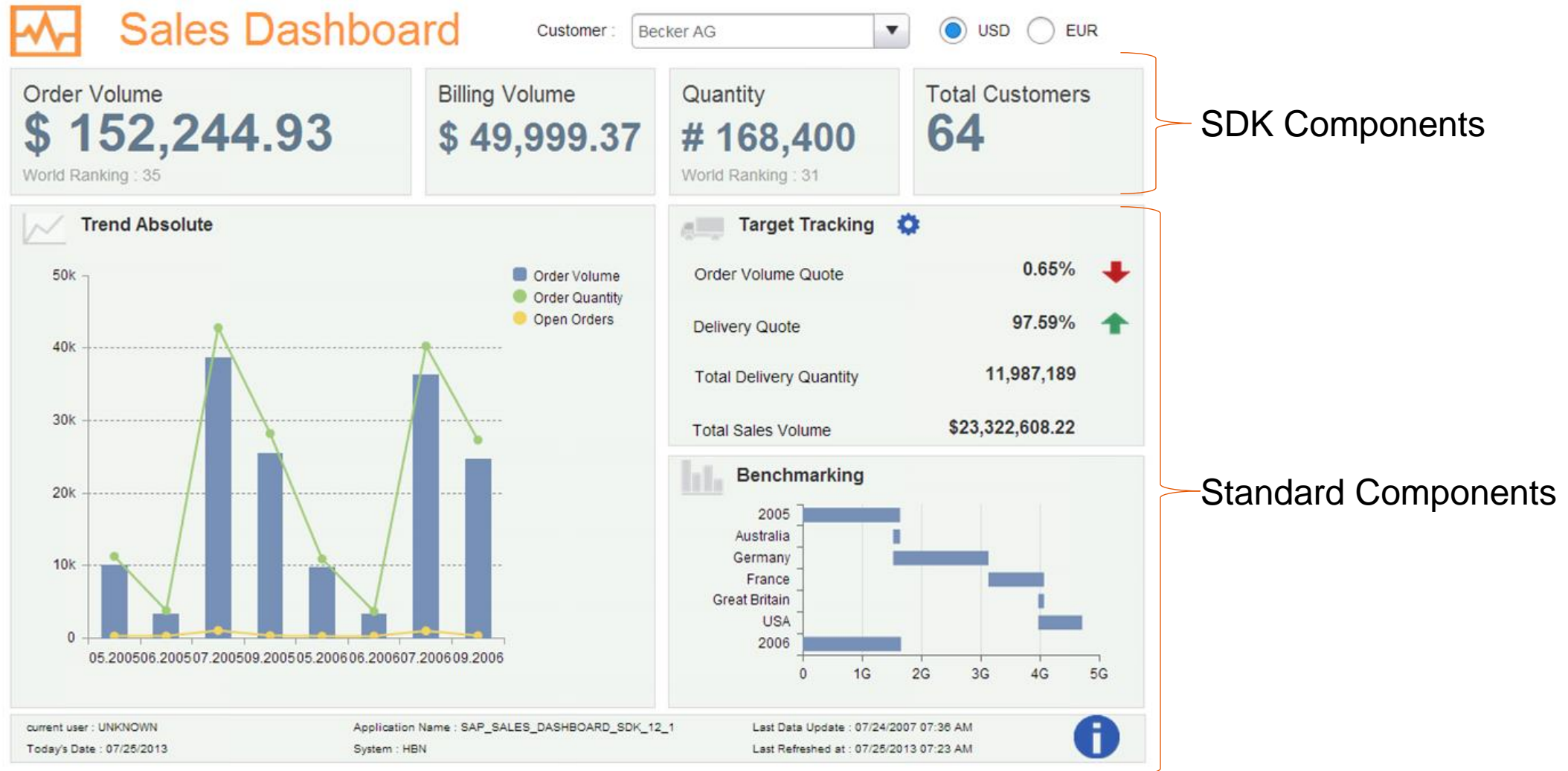


Example: Hichert charts

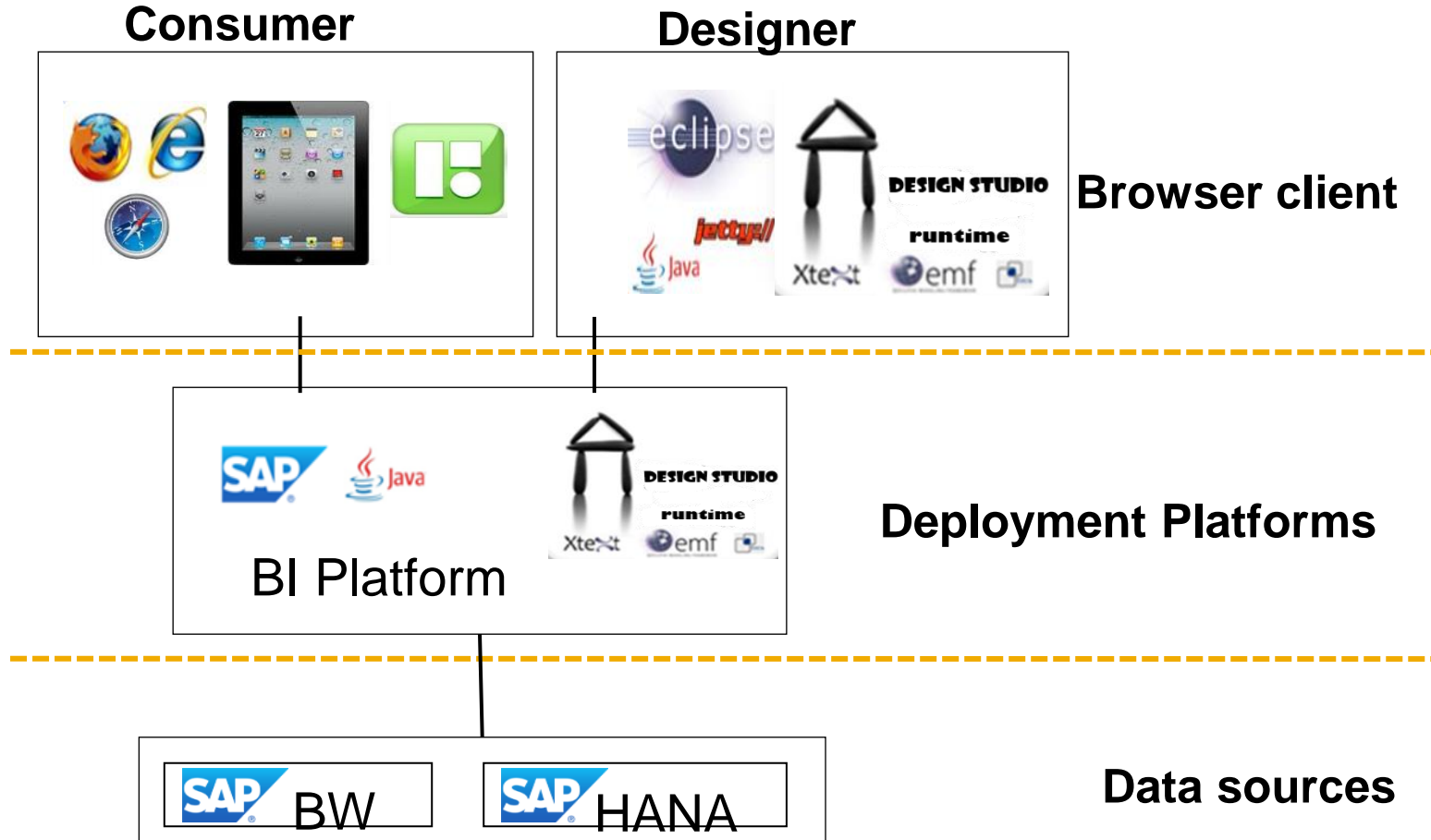


Example: Gauge

Example: DS Dashboard with Standard & SDK components



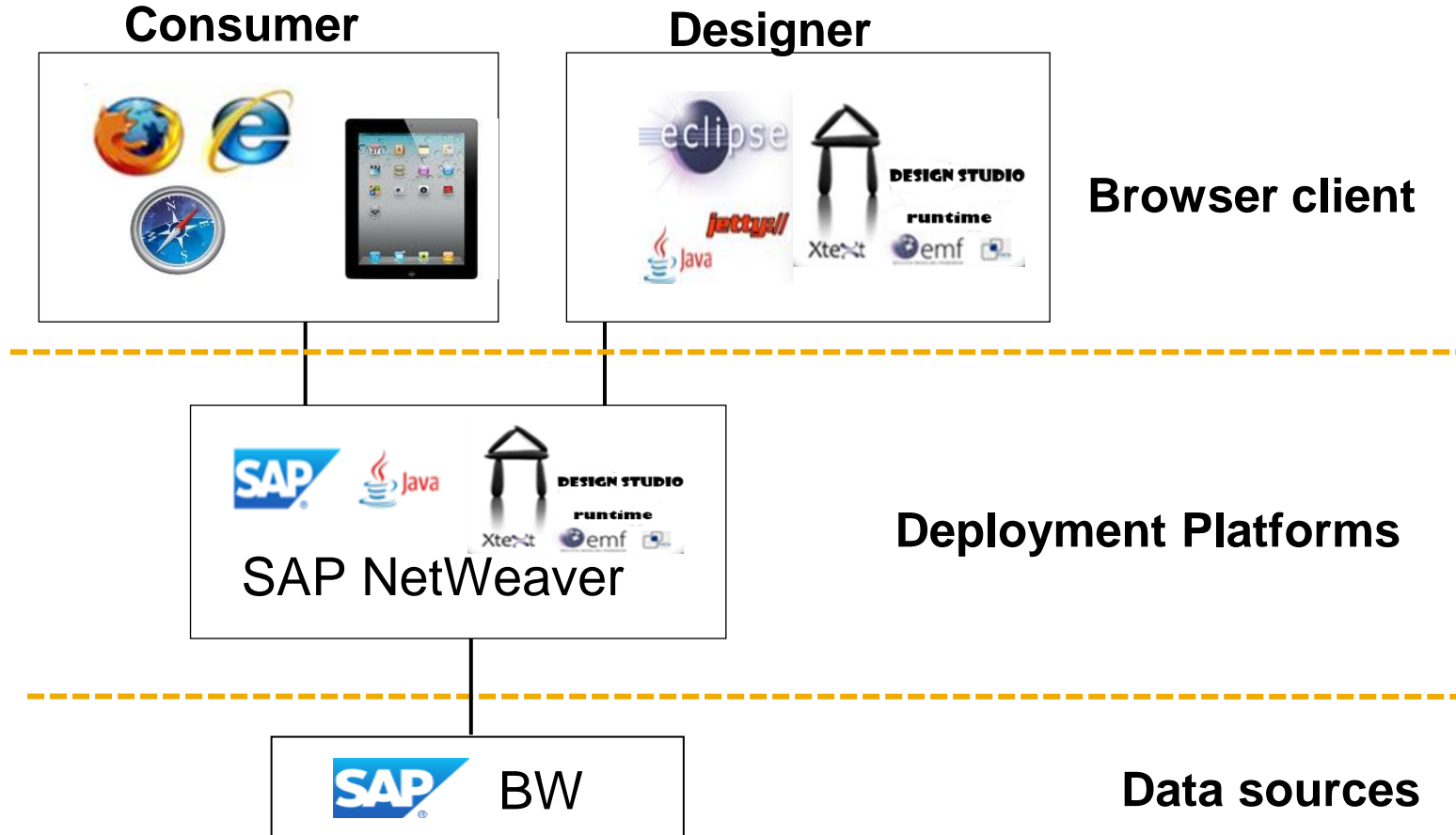
Deployment Option: BI Platform



BI Platform

- Available as of Design Studio release 1.0
- Pre-requisite: BI 4.0SP5 or BI 4.1SP0
- Design Studio applications stored on BI Platform
- Backend connections through CMC, supports multiple connections to SAP BW and SAP HANA systems
- Transportation via Promotion management
- Pre-requisite for SAP BI Mobile Solutions

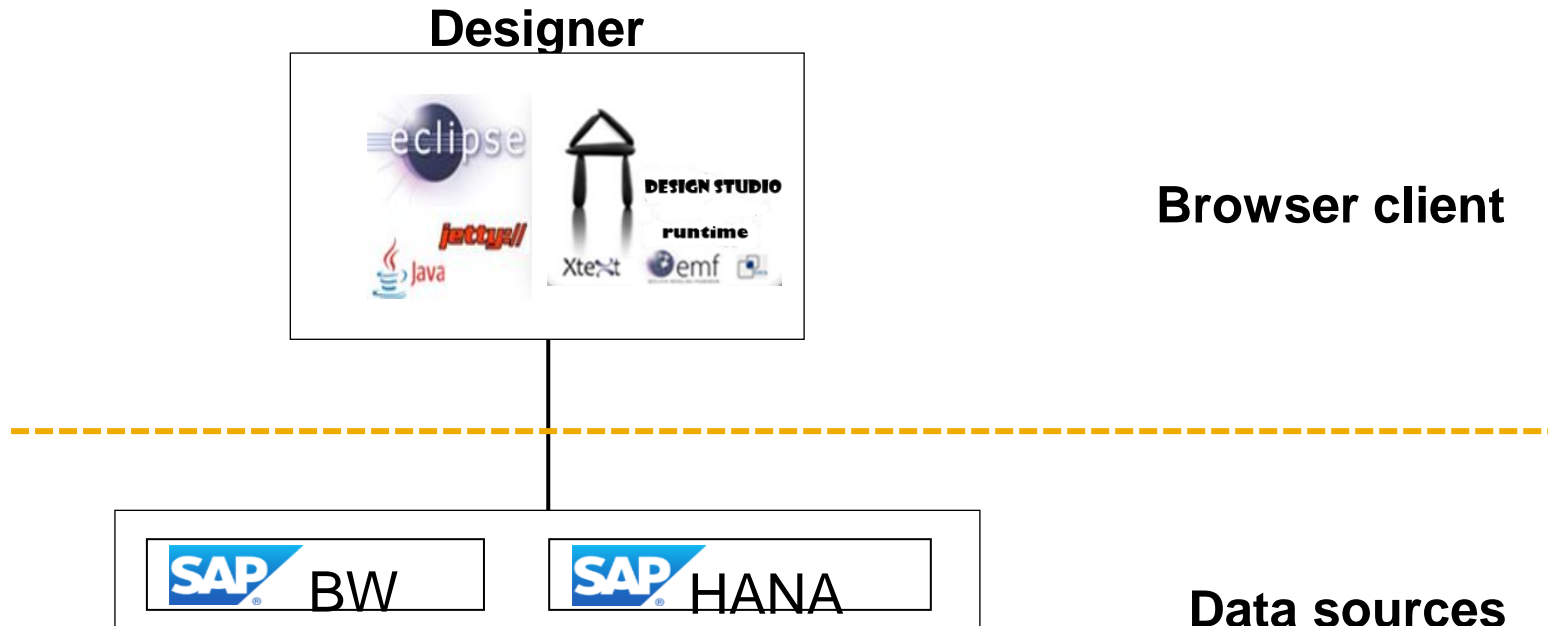
Deployment Option: SAP NetWeaver



SAP NetWeaver

- Available as of Design Studio release 1.1
- Pre-requisite: BW 7.3 SP9, BW 7.31 SP7 or BW7.4 SP2
- Design Studio applications stored on SAP BW
- Transport via TLOGO objects (ABAP transport mechanism)
- Can only connect to one BW system
- SAP Portal mobile solution is planned

Deployment Option: Local Mode



Local mode:

- Available as of Design Studio release 1.0, only for demo or quick prototyping purpose
- Direct connection to backend systems using local SAP logon file
- Design Studio runtime is local on laptop or PC

SAP BusinessObjects Design Studio

Product road map overview - key themes and capabilities until Q2 2014

Design- & Runtime Enhancements

- Enhanced Charting
- Align/distribute components in layout
- Enhanced Filter Components
- Enhanced Scripting
- Variable Screen
- Custom Stylesheets

Interoperability

- Interoperability with Analysis, edition for OLAP

Mobile

- Performance improvements
- iPhone support

Platform

- Optional NW deployment (for BW-only use cases)

Partner & Customer SDK

- Create custom charts, visualizations & extensions (e.g. commentary)

Additional Data Sources

- UNIX support and UNIX query panel in DS

Enhanced Charting & Visualization

Design- & Runtime Enhancements

- Navigation Panel
- Enhanced Scripting
- Customize Crosstabs: Formats
- Excel-based Printing & Export
- Enhanced set of components
- BEx Query Exceptions
- Background Query Loading

Offline Capabilities

- Enable offline usage of DS dashboards, especially for mobile usage

BW Integrated Planning

Native HANA Deployment Version

Enhanced Charting & Visualization

- Geo Maps, Large Data Visualizations, new charts

Design- & Runtime Enhancements

- Application bookmarking & personalization
- Drag&Drop; Context menu, RRI
- Advanced Printing & Exporting

Lumira Integration

Today (DS 1.1)

DS 1.2 RTC: Q4 2013

DS 1.3 RTC: Q2 2014

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



Appendix

SAP Business Explorer (BEx)

Maintenance

- BEx 7.0 continues to be delivered with the next SAP NetWeaver BW releases. At this point in time, there's no planned end of life. The maintenance period is renewed with every major BW release.
- BEx 3.5 is part of BW 3.5/SAP NetWeaver 04 and the maintenance cycle is coupled to this release (see SAP note 1410878). BEx 3.5 in BW 7.0x and BW 7.3x will be supported while BEx 3.5 (NetWeaver 2004) is in extendend Maintenance (2013). Note that full PAM support of BEx 3.5 cannot be granted by SAP – as Microsoft has removed, e.g., support for some components within Windows 7 that had been used by BEx Web Application Designer 3.5.
- Also see: <https://www.sdn.sap.com/irj/sdn/bex>

Coexistence BEx Analyzer and Analysis, edition for MS Office

- You can install BEx and Analysis on a single PC.
- Only one add-in can be active in an Excel session (in other words, either BEx or Analysis can be active)
- Opening a BEx workbook activates the BEx add-in.

Tool vs Application

Tool	Application
Ad-hoc and self-service	Custom/specific OLAP analysis
End user empowerment	Planning application / guided navigation
Full set of functionality	Selected set of functionality
De-centralized content creation	(IT-)centralized content creation

**Analysis OLAP
Web Intelligence**

Design Studio

BEx WAD vs Design Studio

BEx Web Application Designer	Design Studio
"Old-fashioned look and feel" of the UI	HTML5 UI technology
Strong Coupling to UI Technology UR	JSON-based client-side rendering
Usability issues of the WAD Designer	New designer concepts
Difficult to layout and format applications	WYSIWIG layouting
Complex property editing	Less and decoupled properties
Complex command specification	Wizards and Command Script Language

BEx Web Application

Design Studio Application

Annual Customer Plan - Direct Customer - Build Next Year Plan

Planning Customer Δ

Product Hierarchy Δ

Material Group 1 Δ

Range Brand Δ

Sales Organization Δ

Distribution Ch

GDCRM7 CH Node L6-AACFBA

GBL3 Core Coffee

GB In Home Coffee

Not assigned

Logistics Co

Retail

Save

Refresh

Calculate

Cancel

Send

Export to Excel

Print

Go To Activity Calander

Go To Activity List

Go To Aggregated View Report

Create Detailed Trade Activity

Worklist

Summary

Enter Other High Level BB

Enter Promotion High Level BB

LTA's

Annual Agreements

Inform

Product / Placement / Price Building Block

Channel

Building Block Type

Description

Show All Values

Please select a buildin...

Add New Row

Change Row

Delete Row

Copy

Paste

Delete

Building Block Δ	Description Δ	Channel Δ		Total	JAN	FEB	MAR
Product	Result		Incremental Sales	12.000	1.000	1.000	1.000
			Trade Dev Spend	£ 24.000	2.000	2.000	2.000
	T2	Hypermarket	Trade Dev Spend	£ 12.000	1.000	1.000	1.000
	TC_PRODUCT_5	Cash & Carry	Incremental Sales	12.000	1.000	1.000	1.000
Placement	Result		Incremental Sales	240.000	20.000	20.000	20.000
			Trade Dev Spend	£ 240.000	20.000	20.000	20.000
	TC_PRODUCT_3	Cash & Carry	Incremental Sales	240.000	20.000	20.000	20.000
			Trade Dev Spend	£ 240.000	20.000	20.000	20.000
Price	Result		Incremental Sales	420.000	35.000	35.000	35.000
			Trade Dev Spend	£ 530.000	35.000	45.000	45.000
	NEW DESCRIPTION CHANGE	Cash & Carry	Incremental Sales	120.000	10.000	10.000	10.000
			Trade Dev Spend	£ 120.000	10.000	10.000	10.000
	T1	Cash & Carry	Trade Dev Spend	£ 110.000	0	10.000	10.000
	TC_PRODUCT_6 NEW	Not assigned	Incremental Sales	120.000	10.000	10.000	10.000
			Trade Dev Spend	£ 120.000	10.000	10.000	10.000
	TEST MULTI LEVEL BB 11	Counter Store	Incremental Sales	60.000	5.000	5.000	5.000
			Trade Dev Spend	£ 60.000	5.000	5.000	5.000
	TEST P11 PRICE	Counter Store	Incremental Sales	120.000	10.000	10.000	10.000
			Trade Dev Spend	£ 120.000	10.000	10.000	10.000

SAP Employee Network

Corporate Portal

Access: Internal

Address Book

Any Questions?

Login

Calendar Year

2009

Chart Type

Pie Chart

Chart Style

Standard

Responsible Δ	Product Δ	Amount Sold Δ	Net Sales Δ
John	VUVUZELA	30,223	18,711,950.00
	CAP	7,156	4,464,490.00
	BANNER	6,966	4,339,120.00
	Result	44,345	27,515,560.00
Martin	SHIRT_S	9,064	5,573,780.00
	SHIRT_L	8,208	5,055,270.00
	SANDALS	7,662	4,750,960.00
	HIGHHEELS	7,487	4,608,210.00
	Result	32,421	19,988,220.00
Lisa	SNEAKERS	12,956	7,983,810.00
	SHORTS	10,278	6,382,130.00
	Result	23,234	14,365,940.00
Overall Result		100,000	61,869,720.00

Responsible/Product

VUVUZELA

CAP

BANNER

SHIRT_S

SHIRT_L

SANDALS

HIGHHEELS

SNEAKERS

SHORTS

Laptop

Tablet

Printer

Cable

Area Code

Arkan...

Califor...

Colora...

Conne...

Florida

Georgia

Illinois

Indiana

Iowa

Area Code

Arkan...

Califor...

Colora...

Conne...

Florida

Georgia

Illinois

Indiana

Iowa

Kansas

Kentu...

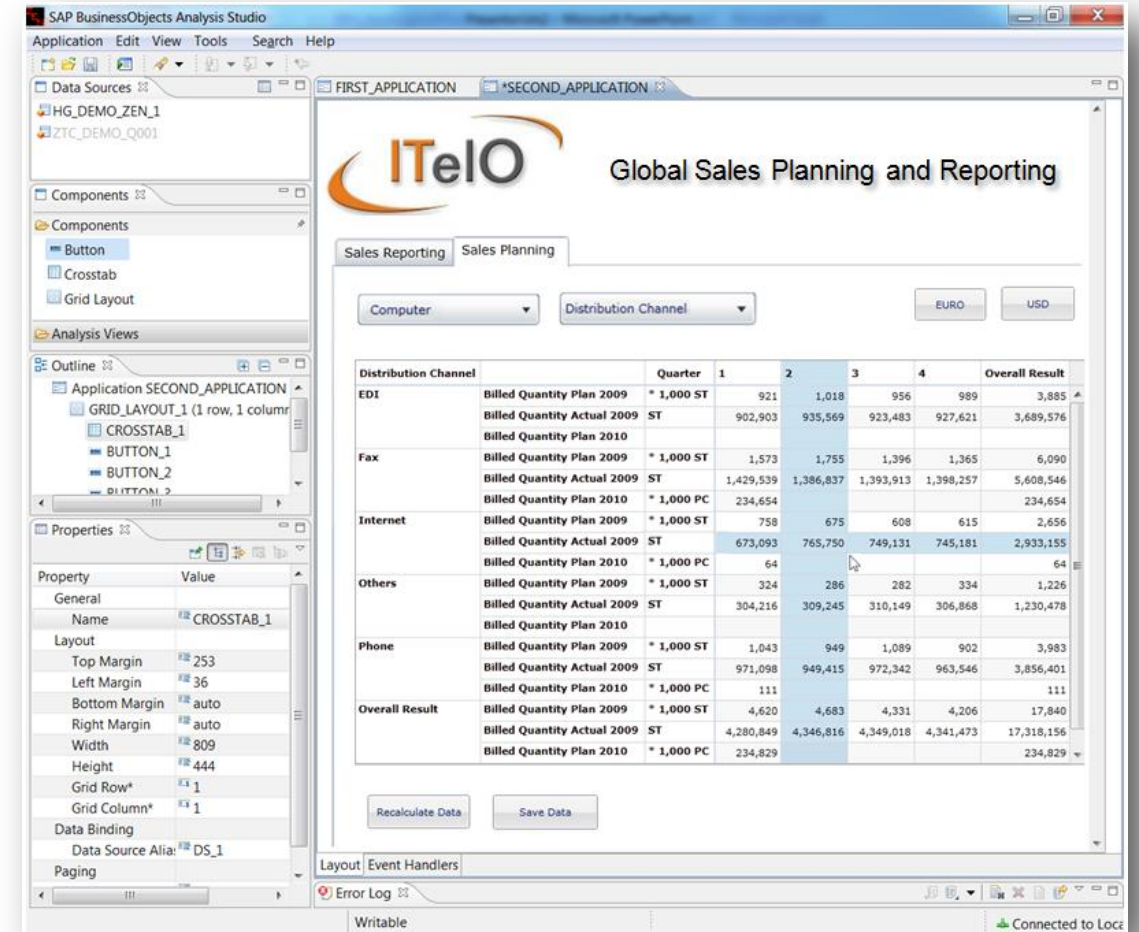
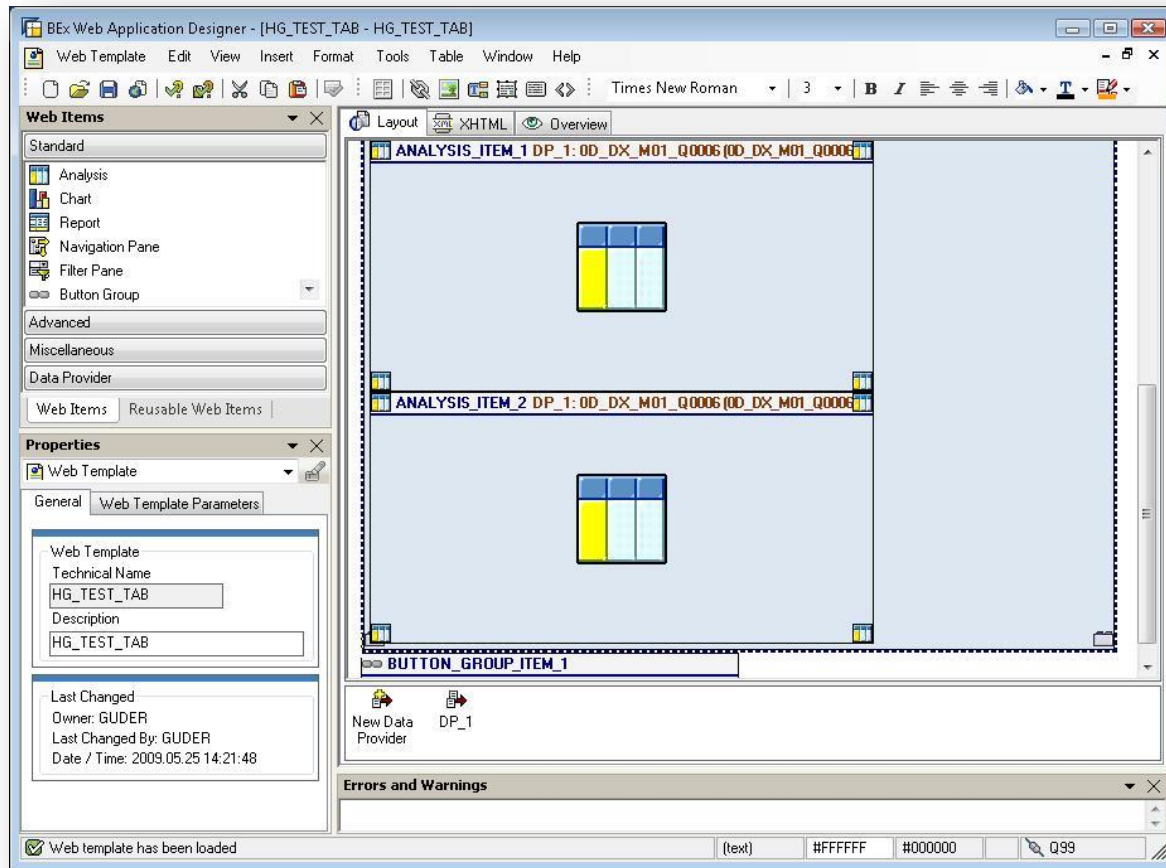
Area Code Δ	Net Sales Δ	Billed Quantity Δ
Arkansas	49,961.58	1,063.19
California	4,839.56	95.32
Colorado	732.22	18.86
Connecticut	1,353.99	12.66
Florida	767.10	14.78
Georgia	204.16	2.64
Illinois	2,582.44	54.63

Sales quantities

Number of tweets

BEx WAD Designer

Design Studio Designer





Thank you

Contact information: