SAP BusinessObjects Dashboards
SAP BusinessObjects Dashboards
SAP Crystal Dashboard Design
SAP Crystal Server 2011
SAP BusinessObjects Edge Business Intelligence (BI)
SAP BusinessObjects business intelligence (BI) solutions
At the end of this course, you will be able to:

- Describe SAP BusinessObjects Dashboards including:
  - Key capabilities
  - Top differentiators
  - Benefits
- Effectively demonstrate sample dashboards
This course applies to:

- SAP BusinessObjects Dashboards
- SAP Crystal Dashboards, departmental edition
## Why Do Customers Need Dashboards?

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spreadsheets are static and aren’t compelling</td>
<td>Create simple and engaging interactive models</td>
</tr>
<tr>
<td>Need a comprehensive view of your data</td>
<td>Dashboards provide a comprehensive view of business performance</td>
</tr>
<tr>
<td>Discussions take place in real time: static data isn’t conducive</td>
<td>Do on-the-fly analysis with visual components like gauges, sliders and dials</td>
</tr>
<tr>
<td>Limited IT resources</td>
<td>Anyone who can use Excel can create stunning visualizations with little training</td>
</tr>
<tr>
<td>Numerous, disparate data sources</td>
<td>SAP BusinessObjects Dashboards connect to any ODBC or XML data source</td>
</tr>
</tbody>
</table>
BI Market Needs

Organizations need to extend the use of BI
Aberdeen Group “CIO report that top pressure on BI solutions is to improve BI ease-of-use and to deliver to BI more users”
Unisphere Research cites “lack of training as the biggest obstacle to making better use of BI”

Customers find dashboards removes end-user BI adoption barriers
Visual, intuitive, requires no training, flexible design to match business requirements
2008 TDWI Survey: “Respondents cited many factors that accelerate BI usage, including delivering data through a dashboard (46%)”

Customers find dashboards increase operational efficiency
Removes silos, aligns organizations on common KPIs
Day to day decision making of front-line employees
Improve customer, partner, supplier ecosystem

Dashboard Users Drive Performance Enhancements

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Product Investments
SAP BusinessObjects Dashboards 4.0

Dashboards flash based front-end removes adoption hurdles for casual, operational users.

Dashboards 4.0 completes the solution by providing IT the features required to roll-out large scale dashboard solution.

- Costs
- Scalability
- Monitoring

Easy to use
Visual
Interactive

4.0 Investments
SAP BusinessObjects Dashboards

See your business clearly
What is SAP BusinessObjects Dashboards?

SAP® BusinessObjects™ Dashboards is a drag and drop visualization tool designed to create interactive analytics for powerful, personalized dashboards.

Who is it for?

Business User

Content Designer

What is it for?

- **Experience unparalleled interactivity** in dashboards for any user.
- **Gain unrivaled flexibility** from design, deployment to sharing of dashboards.
- **Design inspirational dashboards** that make it easy for every user to be better at what they do.
Provide the Big Picture
# Sample Dashboard: Financial Statement

## Income Statement

<table>
<thead>
<tr>
<th></th>
<th>FY2010</th>
<th>FY2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenues</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gross Sales</td>
<td>$12,518</td>
<td>$11,500</td>
</tr>
<tr>
<td>Sales Return &amp; Allowances</td>
<td>$618</td>
<td>$500</td>
</tr>
<tr>
<td>Net Sales</td>
<td>$11,899</td>
<td>$11,000</td>
</tr>
<tr>
<td>Cost of Goods Sold</td>
<td>$5,446</td>
<td>$5,550</td>
</tr>
<tr>
<td>Gross Profit</td>
<td>$6,453</td>
<td>$5,450</td>
</tr>
<tr>
<td>Selling Expenses</td>
<td>$2,191</td>
<td>$1,900</td>
</tr>
<tr>
<td>General &amp; Admin.</td>
<td>$2,504</td>
<td>$1,099</td>
</tr>
<tr>
<td>Operating Income</td>
<td>$1,759</td>
<td>$2,451</td>
</tr>
<tr>
<td>Other Income / Expenses</td>
<td>$12</td>
<td>$25</td>
</tr>
<tr>
<td>Income Before Interest &amp; Taxes</td>
<td>$1,771</td>
<td>$2,476</td>
</tr>
<tr>
<td>Interest Expenses &amp; Taxes</td>
<td>$779</td>
<td>$990</td>
</tr>
<tr>
<td>Net Income</td>
<td>$992</td>
<td>$1,486</td>
</tr>
</tbody>
</table>

**Gross Sales Growth Rate**

![Gross Sales Growth Rate](image)

**As a % of Sales**

- Sales Return & Allowances: 4.9%
- Cost of Goods Sold: 43.5%
- Selling Expenses: 17.5%
- General & Admin.: 20.0%
- Interest Expenses & Taxes: 44.0%
Concept: Create a Dashboard

Concept - Create a dashboard

Dashboards provides an interface that enables you to quickly and easily build and publish your dashboards.

In this tutorial, you will review the elements that make up the interface for Dashboards.
Dashboard Templates

Supply Chain Dashboard

- Warehouse
  - Inventory Accuracy
  - Inventory Turns
  - Defects Per Mll Ops

Items considered accurate if the actual on-hand quantity matches the perpetual inventory quantity.

Dashboard Canvas

Dashboard Spreadsheet

<table>
<thead>
<tr>
<th>Category</th>
<th>Key</th>
<th>Metric Value</th>
<th>Alert Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inventory Accuracy</td>
<td>KPI</td>
<td>0.95</td>
<td>-1</td>
</tr>
<tr>
<td>Inventory Turns</td>
<td>KPI</td>
<td>1.02</td>
<td>1</td>
</tr>
<tr>
<td>Defects Per Mll Ops</td>
<td>KPI</td>
<td>1.04</td>
<td>1</td>
</tr>
</tbody>
</table>

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Dashboard Components
Concept: Use Selectors

Overview

Selectors enable you to set up your dashboards so that users can select what data they want to view in display components like charts.

In this tutorial, you will review how to configure a selector.
Concept: Set Up Alerts

Overview

Dashboards enables you to configure your components to alert you when specific thresholds have been met with color coding that displays as part of the components in your dashboard.

In this tutorial, you will review the steps involved in setting up alerts for a component.
User Auditing and System Monitoring
SAP BusinessObjects Dashboards 4.0

Audit events
- Dashboard User: View, refresh, prompt, logon, logout
- Dashboards Designer: create, delete, modify

Server monitoring metrics include
- Processing time, cache size & hits, requests (served, queued, failed), connections, threads, data transfers, ...
BI Platform Integration
SAP BusinessObjects Dashboards 4.0

New data processing layer
- Semantic layer structure
- Enterprise scalability
- Full BI platform integration

CMC/CCM Management
- Add/remove servers
- Specify server groups
- Manage server status

Performance Tuning
- Cache server options
- Processing job settings
Multi-lingual Dashboards
SAP BusinessObjects Dashboards 4.0
Common Semantic Layer Integration
SAP BusinessObjects Dashboards 4.0

Simplify authoring of dashboards
- Query panel in Dashboards Designer
- Direct binding of Universe objects to visualizations
- Prompt selector to leverage prompt defined in Universe
- Separation of roles between data experts and dashboard authors

Next Generation Semantic Layer
- Consistent access to data between clients and across sources
- One abstraction layer for all data sources
Universe Integration in Dashboards Designer
SAP BusinessObjects Dashboards 4.0

- Universe Objects
- Selected query result objects
- Create custom query filters
- Preview query results
Prompt Selector
SAP BusinessObjects Dashboards 4.0

- Auto-prompt based on the prompt data type and whether it is single or multi value prompt, or cascading list of values
- Directly uses the available List of Values
- Search or page through list of values, as well as, show or hide selected values
Binding Universe Objects to Charts
SAP BusinessObjects Dashboards 4.0
Contextual Drill Down in BI Workspaces
SAP BusinessObjects Dashboards 4.0

- BI Workspaces replaces Dashboard Builder
- Improved and easier content linking capabilities
- Inter-Portlet Communication (IPC)

- Passing State value to Crystal report document as a filter
- Passing State value to the dashboards model
The Content Linking Interface
SAP BusinessObjects Dashboards 4.0

- **BI Workspaces:** A new “content linking” interface through a visual editor
  - Graphical view of links between modules
  - Exposes linking meta-data (prompts, range names, filters)
  - Only linkable modules are displayed
Key Capabilities
SAP BusinessObjects Dashboards

- Drag and drop dashboard designer with prebuilt templates
- Library of easy to understand visualization components for every business user
- Flexible deployment options including portals, SAP and BusinessObjects BI platforms, MS Office applications, and PDFs
- Static or live data via multiple data connectivity options
- Real-time enabled dashboards through direct integration with SAP BusinessObjects Event Insight
Differentiators and Benefits
SAP BusinessObjects Dashboards

Top Differentiators
- Flexible dashboard output options
- Library of visualization components and templates for designing interactive dashboards

Benefits
- **Flexibility for IT and business users** – With ability to create dashboards with many data sources and then publish in user friendly outputs and environments
- **Quicker deployment and adoption** – With most commonly used visualizations that business users will understand and templates for quick deployment
SAP BusinessObjects Dashboards (Editions)

**SAP BusinessObjects Dashboards**
- Enterprise solution for creating dashboards

**SAP BusinessObjects Dashboards Interactive Viewing**
- Enterprise license for viewing dashboards

**SAP Crystal Dashboard Design products**
- Solution sold through SAP partners, resellers, distributors and the e-Store

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**Description**

- Includes connectivity to the SAP BusinessObjects Business Intelligence platform and SAP Netweaver BW, Business Suite.

- Intended for users who view and interact with dashboards but do not create them.

- Includes connectivity to live databases and Excel data, but not to SAP BusinessObjects Business Intelligence platform or SAP Netweaver BW or any SAP environments.
## Dashboard Edition Comparison

<table>
<thead>
<tr>
<th>Feature</th>
<th>SAP Crystal Dashboard Design Starter package</th>
<th>Dashboard Viewing option</th>
<th>SAP BusinessObjects Dashboards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic data presentation components</td>
<td>☑</td>
<td></td>
<td>☑</td>
</tr>
<tr>
<td>Export to Adobe PDF and PPT</td>
<td>☑</td>
<td></td>
<td>☑</td>
</tr>
<tr>
<td>Dashboard creation components and export to Web and Adobe Flash, AIR</td>
<td>☑</td>
<td></td>
<td>☑</td>
</tr>
<tr>
<td>Live, refreshable data connections</td>
<td>Unlimited</td>
<td></td>
<td>Unlimited</td>
</tr>
<tr>
<td>Connectivity to Adobe LiveCycle Data Services</td>
<td>☑</td>
<td></td>
<td>☑</td>
</tr>
<tr>
<td>IBM WebSphere, MSFT SharePoint and Reporting Services integration</td>
<td>☑</td>
<td></td>
<td>☑</td>
</tr>
<tr>
<td>Crystal Reports Server connectivity and platform integration including Live Office support</td>
<td>☑</td>
<td></td>
<td>☑</td>
</tr>
<tr>
<td>Viewing rights for dashboards connected to live data sources</td>
<td>☑</td>
<td></td>
<td>☑</td>
</tr>
<tr>
<td>Deploy dashboards to more than 100 named users</td>
<td></td>
<td></td>
<td>☑</td>
</tr>
<tr>
<td>Deploy dashboards to SAP BusinessObjects Edge and SAP BusinessObjects BI Platform</td>
<td></td>
<td></td>
<td>☑</td>
</tr>
<tr>
<td>Access SAP ERP and SAP BW data</td>
<td></td>
<td></td>
<td>☑</td>
</tr>
</tbody>
</table>
You should now be able to

• Describe SAP BusinessObjects Dashboards including:
  • Key capabilities
  • Top differentiators
  • Benefits

• Effectively demonstrate sample dashboards
Additional Resources

For more information on topics discussed in this course, see the following references:

- SAP User Interface Guidelines for Dashboard Design (documentation)
- Sample Dashboards
  - Additional Dashboard Samples
- Public Web Sites
  - Dashboard tutorials
  - SAP BusinessObjects Dashboards
  - SAP Crystal Dashboard Design
Thank You!