Crystal Reports within SAP BI 4.0

Crystal Reports 2011 and Crystal Reports for Enterprise

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About DCS Consulting:

DCS Consulting is a Business Intelligence and Data Warehousing (BI/DW) professional services firm specializing in providing highly experienced consultants.

- Located in Washington DC Area.
- Our customers range from DOD and Federal Civilian clients to Health Care, Financial Services, Consumer Goods, & Energy.

- Technology Expertise:
  - SAP Business Objects
  - Visual Cue
  - DOMO
  - CGI Momentum Financials
Crystal Reports: Operational Reporting Tool

- Perfect solution for canned or published reports
- Create high-fidelity, pixel-perfect reports
- Access almost any data source
- Build professional quality documents
- Format and layout data with precision
- Embed reports within business applications
History of Business Objects and Crystal Reports

Timeline of Integration between BOBJ and Crystal Reports

- 1988: Quick Reports for DOS, Predecessor of Crystal Reports
- 1990: Business Objects Company Founded
- 1992: Crystal Reports for Windows
- 1996: Release of Web Intelligence by Business Objects
- 2002: Crystal Reports v9
- 2003: Business Objects Acquires Crystal Decisions
  - Crystal v10 and BusinessObjects v6.5
- 2004: BusinessObjects XI
- 2005: BusinessObjects XI R2
- 2008: Crystal Reports 2008
- 2009: BusinessObjects XI 3.0
- 2011: SAP BI 4.0
  - Crystal Reports 2011
  - Crystal Reports for Enterprise
Two Versions of Crystal Reports

SAP BI 4.0 Includes CR 2011 and CR for Enterprise

BusinessObjects 3.x

Crystal Reports 2008

SAP BI 4.0

Crystal Reports 2011

Crystal Reports for Enterprise
Two Versions of Crystal Reports in SAP BI 4.0

SAP BI 4.0 Includes CR 2011 and CR for Enterprise

Crystal Reports 2011
- Provides a incremental update to Crystal Reports 2008
- Focuses on serving the needs of legacy customers
- Delivers existing functionality with no regressions
- Offers seamless upgrades from legacy releases of Crystal Reports
- Interface is identical to Crystal Reports 2008

Crystal Reports for Enterprise
- Newly designed version of Crystal Reports
- Provides a major redesign of the Crystal Reports Designer
- Enhances the report design environment
- Offers many new features and functions
- Has some limitations and some functionality regressions
- Provides new user interface
Crystal Reports 2011

- Interface is identical to Crystal Reports 2008
- No major changes and three minor new features:
  - Export to Excel 2007 / 2010 XSLX from the report designer and viewer
  - Read-only reports (new rptr report format)
  - Integration with Visual Studio 2010
- Delivered as a means for allowing customers to migrate to Crystal Reports for Enterprise at their own pace
Crystal Reports 2011

Read-Only Format

Designer – Export – Crystal Reports Read Only

Crystal Reports Designer Cannot Open
Must use CR Viewer or SAP BusinessObjects XI 4 to view

Export

Format:
- Crystal Reports (RPT)
- Crystal Reports (RPT)
- Crystal Reports Read-Only (RPRTR)
- HTML 3.2
- HTML 4.0
- Microsoft Excel (97-2003)
- Microsoft Excel (97-2003) Data-only
- Microsoft Excel Workbook Data-only
- Microsoft Word (97-2003)
- Microsoft Word (97-2003) - Editable

This document could not be opened.

This document looks like a Crystal Reports Read-Only (RPRTR)
document. RPRTR files cannot be opened by the Crystal Reports
designer. Please use SAP Crystal Reports viewer 2011, the .Net report
viewers, or a server based viewer on SAP BusinessObjects XI4 to view
RPRTR files.
Crystal Reports 2011

Export to XSLS Format – MS Excel Workbook

Export to MS Excel 2007 / 2010 XSLX Workbook Format from the report designer and viewer
SAP has determined that **Crystal Reports for Enterprise** is the future of the Crystal Reports product line, and subsequently it provides the foundation for all future releases of Crystal Reports. To this end, there are a number of **new features** in Crystal Reports for Enterprise, including the following:

- Smart Formatting of Reports
- Enhanced Connectivity with Universes
- Streamlined, Tab-controlled User Interface
- New Charting Engine
- New Multilingual Support
- New Alerting Mechanism
As Crystal Reports for Enterprise incorporates a completely new code base, rather than being a next version of existing releases of Crystal Reports, there are a number of features that have not yet been incorporated.

- No Direct Relational Database Support
- No Support for Database Connectivity (ODBC or JDBC)
- No OLAP as a data Source Support, other than SAP Business Explorer Queries
- No BusinessObjects Live Office Support
- Inability to Search via Enterprise Search
- No Geographical Maps
- No Barcodes
Crystal Reports for Enterprise

- Easy-to-use, new design environment
- Designed for both novice and professional designers
- Create simple reports to represent complex data within a few minutes
With Smart Formatting included in Crystal Reports for Enterprise, the Crystal Reports Designer automatically detects patterns in report formatting. And upon changes to the report, the designer will rapidly adjust the design of the report.

- Automatic Resizing of Column upon Object and Column Insertion
- Automatic Column Shifting upon Object and Column Insertion
- Guidelines for Easy Column Resizing
- Ability to Drag and Drop to Reorder Columns
New Screen Layout

Menus and Buttons are Now Similar in Layout to Microsoft Applications

Crystal Reports for Enterprise

Crystal Reports For Enterprise
New Screen Layout

Design and Preview Pages are Now Called Structure and Page (Same Functionality)

- **Structure Tab** displays the Report Design with Field Codes
- **Page Tab** displays a Report Preview with Data
New Screen Layout

Context Menus are Now Similar in Layout to Microsoft Applications

Context Menus (Right Click) have a new layout and some new options
Using the new query panel, which is common to multiple SAP BusinessObjects client tools, you can drag and drop objects to create a query which can be used to build your reports.
Grouping & Sorting

Single tool to manage all report groups and sorts

Crystal Reports for Enterprise

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Hierarchies

Hierarchy-aware semantic layer allows hierarchies to be easily included within reports

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Within **SAP BI 4.0**, a new Universe (Semantic Layer) has been developed. The existing Universe (.unv) and Designer tool still exists in 4.0, but an additional tool named “Information Design Tool” (IDT) has been developed.

Universes created with the IDT are published to the BOE repository with a (.UNX) extension.

Web Intelligence 4.0 can work with both (.UNV) and (.UNX) universes.

The following new products or product features only work with the new (.UNX) IDT Universes.

- SAP Crystal Reports for Enterprise
- SAP BusinessObjects Explorer
- SAP BusinessObjects Dashboard Design (Direct Binding)
Choosing the Right Version of Crystal Reports to use Depends on the Data Source.

<table>
<thead>
<tr>
<th>Data Source</th>
<th>General Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Objects 4.0 Universe (unx)</td>
<td>Crystal Reports for Enterprise</td>
</tr>
<tr>
<td>SAP NetWeaver BW 7</td>
<td>Crystal Reports for Enterprise</td>
</tr>
<tr>
<td>SAP NetWeaver BW 3.5</td>
<td>Crystal Reports 2011</td>
</tr>
<tr>
<td>Direct Database Access, ODBC, or JDBC</td>
<td>Crystal Reports 2011</td>
</tr>
<tr>
<td>SAP ERP</td>
<td>Crystal Reports 2011</td>
</tr>
<tr>
<td>BusinessObjects Live Office</td>
<td>Crystal Reports 2011</td>
</tr>
</tbody>
</table>
Two Versions of Crystal Reports in SAP BI 4.0

What to Remember

Crystal Reports 2011
- Has look and feel of previous versions of Crystal Reports
- Interacts with BOE like previous version of Crystal Reports
- Includes few new features

Crystal Reports for Enterprise
- Only works with (.UNX) universes and BW BEx Queries
- Includes new screen layout
- Includes smart formatting
- Includes new query panel
- Incorporates new Universe type (.UNX)
- Foundation for future versions of Crystal
Crystal Reports for Enterprise is the Future of Crystal Reports

SAP BI 4.0

Crystal Reports 2011

Crystal Reports for Enterprise

SAP BI 4.1

Crystal Reports for Enterprise will contain a combination of functions from Crystal Reports 2011 and Crystal Reports for Enterprise
What’s Planned?

Planned Features in Crystal Reports for Enterprise within SAP BI 4.1:

Enhanced Access to Data Sources
• Limited Direct Access to Relational Databases
• Essbase and SAP ECC OLAP Sources
• SAP BW and BEx Improvements

Enhanced Visualization and Viewers
• New Charts
• Enhanced Viewer Workflows

Online Report Templates
• Online Library of Report Templates
• New Set Data Source User Interface

New BI Platform Features
• Live Office and Search
• Integration with HANA

New APIs
• RESTful Web Service, oData
• AJAX API
Questions
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