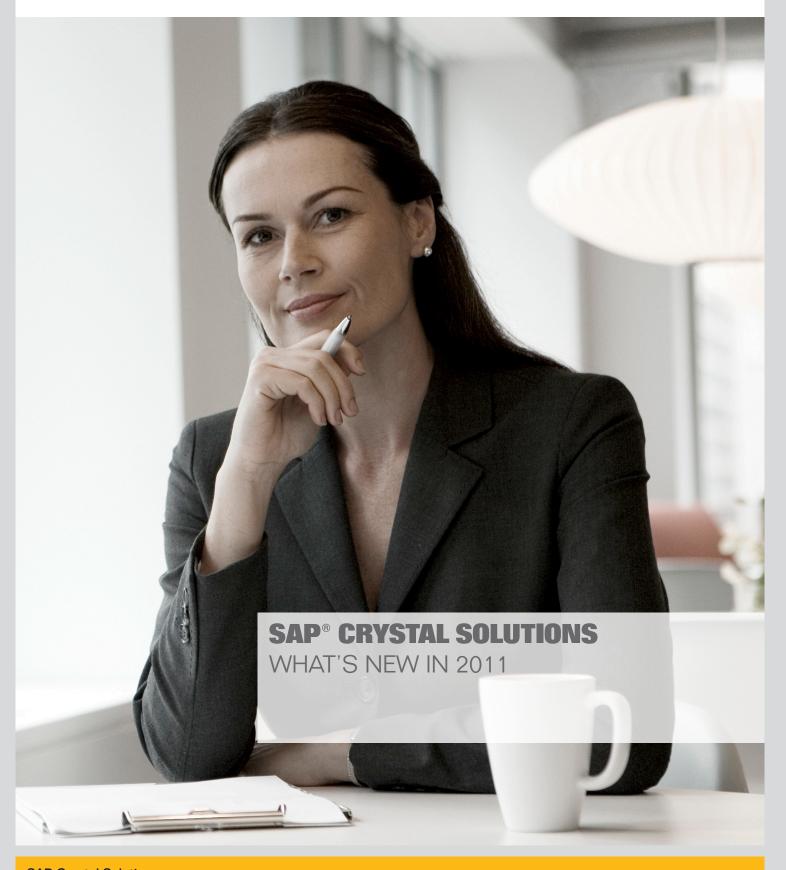
SAP® Crystal Solutions



SAP Crystal Solutions



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Overview

SAP® Crystal solutions offer an open, self-serve approach to entry-level business intelligence that enables business users to explore, view, report, visualize, and manage actionable information in a secure environment.

SAP Crystal solutions include SAP Crystal Server software, designed for data exploration, report viewing, dashboard viewing, management, and delivery; the SAP Crystal Reports® family of offerings, designed for presentation-quality reporting; SAP Crystal Interactive Analysis software, for performing ad hoc query and analysis; SAP Crystal Dashboard Design software, for building interactive departmental dashboards; and SAP Crystal Presentation Design software, for creating interactive data presentations from spreadsheets.

WHAT'S NEW IN SAP CRYSTAL SERVER 2011

GET FAST, SELF-SERVE ANSWERS TO BUSINESS QUESTIONS

SAP Crystal Server software has a new name and a new approach to the management and sharing of your business information. SAP Crystal Server 2011 is the next generation of SAP Crystal Reports Server 2008 – and it is now faster, easier to use, and more comprehensive than ever before.

Here's a snapshot of key new features and benefits in SAP Crystal Server:

- Self-serve access to relevant information. Get immediate answers to your business questions with the newly included SAP BusinessObjects Explorer™ software, which combines simple keyword searches with intuitive data exploration functionality.
- Google-style search. Find the most relevant business information instantly, with search results automatically ranked to help narrow the areas of interest.
- Guided data exploration. Get factbased answers to spontaneous questions without needing to rely on IT for assistance.
- Updated user interface with unified look and feel. Common user interface elements make it easier to transition between tools.
- Simplified access to data. The universe component (semantic layer) of SAP BusinessObjects[™] software is now included in SAP Crystal Server to deliver faster, easier data access and a single, simplified view of your business data.

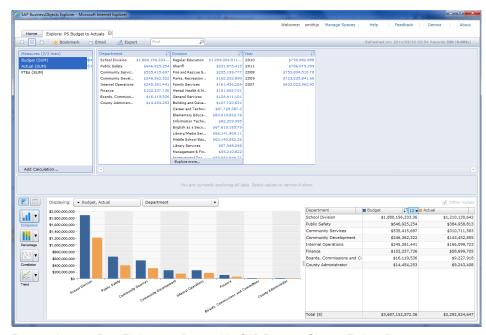


Figure 1: Intuitive Data Exploration, Powered by SAP BusinessObjects Explorer™

- Multilingual reports and dashboards.
 One report or dashboard can support multiple languages and manage translated text.
- Simplified deployment. The software includes new 64-bit server support, system diagnosis monitoring, and lifecycle management to help promote objects between servers.

Guided Data Exploration

SAP Crystal Server 2011 includes SAP BusinessObjects Explorer software for guided data exploration.* Now, people

across your organization can search and explore business data intuitively, without help from IT, so they can find immediate answers to their business questions.

As shown in Figure 1, with SAP BusinessObjects Explorer, you can search, filter, and reorder values without needing to know the underlying databases or data models. Then, you can share your insights simply by exporting, bookmarking, or sending e-mail.

^{*} Support for SAP BusinessObjects Explorer™ is only available with named user licenses of SAP® Crystal Server.

Engaging User Experience

The user interface for SAP Crystal Server software has been redesigned for a clean, unified look and feel. We designed the user interface so that you can more easily transition between SAP Crystal Server and SAP BusinessObjects Explorer, leveraging the common user interface elements in both tools. See Figure 2.

Common Query Panel Across All Client Tools

A common query panel makes it easier to access data through the universe semantic layer, whether you're designing a report, designing a dashboard, or exploring data.

Integrate Hierarchical Data into Your Universe

Unlike other solutions that require separate tools to access online analytical processing (OLAP) and relational data, the universe component enables access to both data sources, without flattening the OLAP hierarchy and losing its structure. Relational data can also be presented hierarchically.

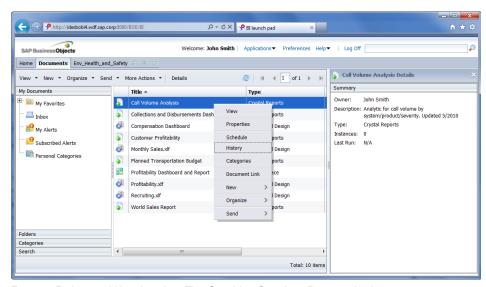


Figure 2: Redesigned User Interface That Simplifies Switching Between Applications

Report Design Optimized for Universe Access

SAP Crystal Server software includes a new report design tool that is optimized for use with universes. This tool is included with SAP Crystal Server at no additional charge. However, for installation and activation, the tool requires an SAP Crystal Reports 2011 key code.

The user interface for SAP Crystal Server software has been redesigned for a clean, unified look and feel. We designed the user interface so that you can more easily transition between SAP Crystal Server and SAP BusinessObjects Explorer, leveraging the common user interface elements in both tools.

Simplified Data Access

SAP Crystal Server simplifies data access by leveraging universes built with the new report design tool. You can use the query panel to build queries against the universe (see Figure 3).

Smart Guidelines

The new report design tool in SAP Crystal Server includes UI innovations such as smart guidelines. These save time by allowing columns to be moved and resized as one element, while automatically adjusting adjacent columns (see Figure 4).

Multilingual Support

The report design tool in SAP Crystal Server provides new translation manager support. A single report can support multiple languages and integrate with the tool for managing translated text.

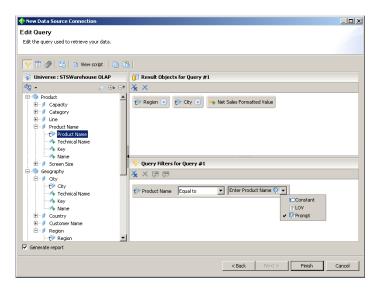


Figure 3: Query Panel in SAP® Crystal Server

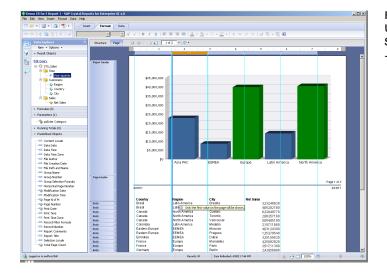


Figure 4: Time-Saving UI Innovations in SAP® Crystal Server - Smart Guidelines

OLAP and Relational Data Access

With the new report design tool in SAP Crystal Server, you can access data from both OLAP and relational data sources (see Figure 5).

Usage Recommendations and Road Map

Both SAP Crystal Reports 2011 software and the new report design tool can be used with SAP Crystal Server 2011 software. SAP Crystal Server 2011 includes dual runtime engines so that each type of report can coexist side-by-side.

If you need to create and modify reports based on the universe semantic layer, we recommend you use the report design tool in SAP Crystal Server. A license of SAP Crystal Reports 2011 is required to activate this tool. If you need to create and modify reports that require access to Open Database Connectivity (ODBC) or other direct data sources, we recommend you use SAP Crystal Reports 2011. SAP plans to add direct-to-data access to the report design tool in a future release.

Viewing Features

SAP Crystal Server supports all new features within SAP Crystal Reports 2011, including the new read-only report

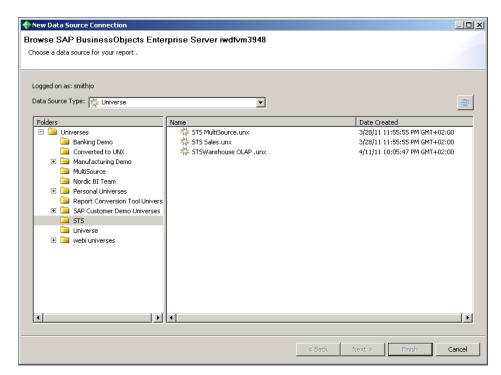


Figure 5: Support for OLAP and Relational Data Sources

format (RPTR) and the new Microsoft Excel 2007 spreadsheet format (XLSX) export feature. This feature lets you export large amounts of data to a single Microsoft Excel worksheet without spanning multiple worksheets. SAP Crystal Server supports all new features within SAP Crystal Reports 2011, including the new RPTR and the new XLSX export feature. This feature lets you export large amounts of data to a single Microsoft Excel worksheet without spanning multiple worksheets.

Semantic Layer

You can combine both online analytical processing (OLAP) and relational data sources into a single, unified semantic layer. This allows you to present relational data in a hierarchical view, with access to hierarchical OLAP data as well. The new information design tool, shown in Figure 6, enables you to author universes that bring together multiple data sources, as well as access both hierarchical and relational data in the same universe.

Universes can be consumed in all supported clients including the report design tool in SAP Crystal Server; SAP BusinessObjects Explorer software; SAP BusinessObjects Live Office software; and the SAP Crystal Dashboard Design solution, departmental edition.

SAP Crystal Server 2011 also supports existing business views.

Simplified Deployment for Lower Cost of Ownership

SAP Crystal Server includes new 64-bit server support and lifecycle management functionality to help you synchronize development, test, and production servers. New comprehensive system diagnosis and monitoring allow you to capture runtime and historical metrics of SAP Crystal Server services and applications for reporting and notification. A new auditing dashboard enables central administration, and versioning controls keep configuration and other key files under revision

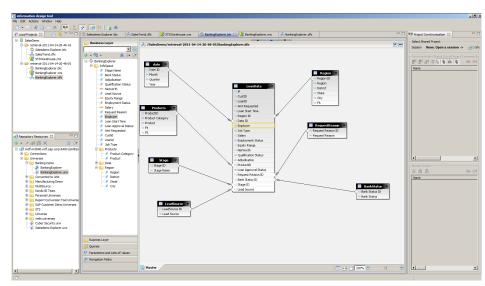


Figure 6: Joining Multiple Data Sources Across a Universe with the Information Design Tool

control for smoother team development. SAP Crystal Server 2011 also offers an easier upgrade with a new upgrade tool that combines the import wizard and database migration tools; direct upgrade from Crystal Reports Server XI R2 SP2 or later, and from Crystal Reports Server 2008; and a choice of a complete or incremental upgrade.

Software Development Kit Enhancements

The software development kit (SDK) for SAP Crystal Server has been enhanced in the following areas: alerting, data security, role-based authentication, auditing, and business intelligence archive resource (BIAR) files.

SAP Crystal solutions offer an open, self-serve approach to entry-level business intelligence that enables business users to explore, view, report, visualize, and manage actionable information in a secure environment.

WHAT'S NEW IN SAP CRYSTAL REPORTS 2011

EXTENDED EXPORT AND PLATFORM SUPPORT

The SAP Crystal Reports family of offerings enables rich formatting of broad, transactional-level data. This allows users to address virtually any information consumption requirement – from simple columnar or table report layouts to specialized government forms.

Here's a snapshot of the key new features in SAP Crystal Reports:

- Expanded support for Microsoft Excel. XLSX export takes full advantage of the new Microsoft Excel file format. It allows more data to be exported to a single worksheet, without spanning multiple worksheets.
- Read-only reports. The new RPTR format provides a read-only RPT export option, giving you the confidence that end users won't be able to modify reports. Reports in RPTR format cannot be opened by any SAP Crystal Reports design tool. This read-only feature is particularly valuable for independent software vendors wishing to secure reports that will be redistributed in applications.
- Read-only report viewing. Reports in the read-only RPTR format can be viewed in the runtime engines in SAP Crystal Reports, version for Visual Studio 2010, and in the latest versions of SAP Crystal Server and SAP Crystal Reports viewer.
- Microsoft Windows 7 compatible. SAP Crystal Reports 2011 is certified as compatible with Microsoft Windows 7.
- Languages. We now support 22 languages, including Danish, Hungarian, Slovakian, and Turkish.



The SAP Crystal Reports family of offerings enables rich formatting of broad, transactional-level data. This allows users to address virtually any information consumption requirement – from simple columnar or table report layouts to specialized government forms.

WHAT'S NEW IN DASHBOARDS AND VISUALIZATIONS

ENHANCED MULTILINGUAL SUPPORT AND DATA ACCESS

SAP Crystal solutions include dashboard and visualization software - formerly known as the Xcelsius® family of products - that provides consolidated views of key metrics, so you can answer your business questions more easily. The latest version of SAP Crystal Dashboard Design software enables business users of different skill levels to quickly transform complex data into sophisticated dashboards and visualizations. Additionally, the latest version of SAP Crystal Presentation Design software empowers your business users to turn Microsoft Excel data into professional-looking presentations through an intuitive pointand-click interface.

Here's a snapshot of the key new features in the latest versions of SAP Crystal Dashboard Design and SAP Crystal Presentation Design software:

- Translation manager support. A single report can support multiple languages, and it can integrate with the translation manager tool to manage translated text.
- Regional date formatting. There is improved regional date formatting functionality. Date, time, and number formats adjust to match the end users' preferred viewing locales.
- Platform support. The software supports Microsoft Office 2010 (32-bit).
- Languages. We now support 22 languages, including Thai, Czech, Hungarian, Slovakian, and Turkish.
- Direct binding to data when using a universe query. The new query panel enables direct data access through a universe when used with SAP Crystal Server 2011; no additional Web services are required. Data val-



SAP Crystal Dashboard Design software enables business users of different skill levels to quickly transform complex data into sophisticated dashboards and visualizations. SAP Crystal Presentation Design software empowers your business users to turn Microsoft Excel data into professional-looking presentations through an intuitive point-and-click interface.

ues can be mapped directly to charts and selectors, and there's no need to store data in an intermediate spreadsheet.*

• Integration with lifecycle management tools. When used with SAP Crystal Server 2011, you benefit from integration with the lifecycle management tools; dedicated caching and processing servers help to ensure fast data access.*

Find Out More

To learn more about SAP Crystal solutions, please visit us on the Web at www.sap.com/sapcrystal.

^{*} This feature is available in SAP Crystal Dashboard Design only.

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