



IBM Cognos 8 Performance Management for use with SAP NetWeaver®

Overview and Architecture Summary

An overview of integration,
interoperability, capabilities and
unique expertise

Contents

- 3 IBM Cognos 8: Overview of integrations and interoperability with SAP® applications**
- 3 History of Innovation**
- 6 IBM Cognos 8 SAP Solution Lineage with SAP® Applications**
- 8 Capabilities Overview**
- 10 IBM Cognos 8 Interoperability with SAP NetWeaver® and the SAP Business Suite®**
 - SAP NetWeaver® Portal
 - SAP NetWeaver® Business Warehouse
 - Use of Security Within an SAP NetWeaver® Application
 - Open Data Access
- 12 IBM Cognos Performance Management Solutions for use with SAP®**
 - IBM Cognos 8 Business Intelligence
 - IBM Cognos 8 Planning
 - IBM Cognos TM1
- 18 Confidence: Why an Investment in IBM Cognos Software is the Right Choice**
- 19 Frequently Asked Questions**

What is Performance Management?

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Performance is not just numbers. It's numbers in context; results related to your goals. Managing performance means understanding results, setting metrics, fixing plans and making decisions to ensure it happens.

New competitive challenges, compliance requirements and sudden market changes underscore the strategic imperative of managing performance. But the various activities needed to manage performance – strategic and operational plans, metrics, day-to-day decisions – have been difficult to integrate. Companies typically manage performance using complex people- and paper-intensive processes. Ultimately, the costs and delays accompanying such approaches can constrain – or even prohibit – timely information access for those who need it.

Your company's performance is directly related to the decisions your people make every day – from executives to the frontline, across functional areas and regions. Those decisions are impacted by information; and everyone needs the same information so they can understand what is happening, why it's happening and what should be happening. But with too much information, too little information, with information that is late, incomplete or inconsistent, they can't possibly understand how their activities move the enterprise forward and measure progress.

Performance management (PM) solutions using IBM Cognos software facilitate the flow of the right information to the right people at the right time. Based upon accepted best practices, they help coordinate your planning, budgeting, reporting, analysis, ad hoc queries, dashboarding and scorecarding to support consistent, effective decision-making.

IBM Cognos 8: Overview of integrations and interoperability with SAP® applications

Since 1997 Cognos has been developing certified solutions for SAP® applications. IBM provides customers with a deeply integrated performance management solution that is interoperable with the SAP NetWeaver® Portal, Web Application Server and the SAP NetWeaver® Business Warehouse.

SAP NetWeaver® Component	IBM Cognos Software Certification(s)
SAP NetWeaver® Portal	Enterprise Portal iViews (EP-BP)
SAP® Web Application Server	SAP Web Application Server (J2EE-DEP)
SAP® Business Suite® (ECC)	SAP ERP Central Component 6.0
SAP NetWeaver® Business Warehouse	OLAP BAPI Interface for SAP BW (BW-OBI)

History of Innovation

Since the official partnership between IBM and SAP® began in 1997, IBM has invested heavily in helping customers embrace, enhance and extend their investments in SAP® applications. Over the years, this partnership has produced major innovations:

- Enhanced performance through next-generation, patent pending MDX optimization engine for the SAP NetWeaver® Business Warehouse.
- Ability to perform SAP NetWeaver® Business Warehouse queries and directly connect to InfoCubes and all structures within the Business Warehouse.
- Use of members and levels/query items.
- Use of caching for in-body prompts and the ability to preset prompt values.

- Increased sophistication of report logic provides:
 - Dual structures
 - Replacement text variables
 - Multiple topCounts
 - CurrentMeasures
 - Slicers

IBM has also focused innovations on enhanced usability and increased quality to improve interoperability with:

- Prompting (search and select)
- Date-based functions
- Show members
- Sorting and manipulation
- MDX functions
- Dynamic row/column headings

In addition, IBM has applied for a U.S. Patent for Multidimensional Query Simplification Using Data Access Having Local Calculation Engine an outcome of our work to optimize the use of MDX with the SAP NetWeaver® Business Warehouse. [For additional information on our next generation, patent pending advances for the SAP NetWeaver® Business Warehouse, please see the IBM White Paper *IBM Cognos 8 Optimizing MDX for the SAP NetWeaver® Business Warehouse.*]

Beyond these innovations, IBM has made advancements specific with our product set. As part of the IBM Cognos 8 platform, IBM Cognos Go! Mobile provides the ability to author content once and view it any time, anywhere.

For example, users can view reports, dashboards, metrics and more on a BlackBerry® device using data from the SAP NetWeaver® Business Warehouse and SAP® R/3®, the SAP Business Suite® or any other data source, without custom development.

Also part of the IBM Cognos 8 platform, IBM Cognos Go! Search provides integration of in-depth search capabilities to simplify access to current business intelligence and performance management content. IBM Cognos Go! Office has the ability to take content from IBM Cognos 8 BI and instantly update content embedded within Microsoft® Office® products such as PowerPoint, Excel and Word.

IBM Cognos 8 Planning brings planning into the performance management platform by providing access to the SAP NetWeaver® Business Warehouse, SAP® R/3®, SAP Business Suite® and all supported IBM Cognos 8 data sources through a single interface.

IBM Cognos TM1 is the only 64-bit, in-memory OLAP database with read/write technology that has direct connectivity to the SAP NetWeaver® Business Warehouse and other data sources to provide easy-to-use modeling capability for rapid updates and changes.

IBM Cognos 8 SAP Solution Lineage with SAP® Applications

For more than 10 years, IBM has been delivering business intelligence and performance management solutions for SAP® customers:

Year(s)	Milestones
1997 – 2002	<ul style="list-style-type: none"> • Commence official SAP® partnership • IBM receives its first certification from the SAP® Partner program • Support for connectivity to mySAP® for reporting and analysis • Cognos Performance Applications for mySAP®
2003	<ul style="list-style-type: none"> • Awarded Powered by SAP NetWeaver® Certification • Launched IBM Cognos ReportNet® • Awarded Powered by SAP NetWeaver® certification for IBM Cognos BI 8 interoperability with SAP NetWeaver®
2004	<ul style="list-style-type: none"> • IBM is the only BI vendor in Shai Agassi's SAP® Tech Ed keynote • IBM is the only BI vendor to present at SAP® Analyst Summit
2005	<ul style="list-style-type: none"> • Customer success Web seminars: Mold-Masters and Arla Foods • InfoWorld 100 Award (Joint Submission) • IBM Cognos User Group formed specifically for customers using SAP® applications • Arla Foods presents at the SAP® European BI & Analytics Conference
2006	<ul style="list-style-type: none"> • IBM Cognos 8 BI Enhanced GA support for SAP NetWeaver® and SAP® R/3® • IBM Cognos 8 BI certified as integrated with SAP NetWeaver® • Innovation Center Event focus for customers using IBM Cognos software with SAP® applications • IBM Cognos Go! Search leverages SAP® applications such as SAP® R/3®, the SAP NetWeaver® Portal and the Business Warehouse • IBM Cognos ReportPack for mySAP® FI/CO • IBM Cognos 8 Workforce Performance for use with SAP® data • IBM Cognos Go! Search leverages SAP® (mySAP®, NetWeaver® Business Warehouse and Portal) • IBM Cognos Go! Mobile leverages SAP® (mySAP®, NetWeaver Business Warehouse® and Portal) • Customer success Web seminar: U.S. Army ARDEC • IBM rated BI/PM company “most familiar with” and “prefer to do business with” in SAP NetWeaver® Magazine survey • HSH Nordbank and U.S. Army ARDEC at IBM Cognos Forum

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Year(s)	Milestones
2007	<ul style="list-style-type: none"> • Release of IBM Cognos software version 8.2 which continues support for SAP® applications, data and infrastructure • IBM Cognos 8 Planning: access to the SAP NetWeaver® Business Warehouse through the IBM Cognos 8 platform. • Innovation Center event: Performance Management for use with SAP® • U.S. Army ARDEC wins Malcolm Baldrige National Quality Award for use of IBM Cognos software with SAP NetWeaver® Business Warehouse and Six Sigma • Support for the SAP Business Intelligence Accelerator® • IBM Cognos software for use with SAP® applications User Group meeting at IBM Cognos Forum • Continued customer successes: Molyckle Healthcare, Quick restaurants, Checkfree, Mainova and Bauhaus
2008	<ul style="list-style-type: none"> • Release of IBM Cognos software version 8.3 which continues support for SAP applications, data and infrastructure • Presentations at SAP® BI and Portals and Sapphire® Orlando • IBM Cognos software for use with SAP® applications User Group at IBM Cognos Forum
2009	<ul style="list-style-type: none"> • Recertification with SAP NetWeaver® Web Application Server • Recertification with SAP NetWeaver® Business Warehouse • Certification with SAP Business Suite®

Capabilities Overview

IBM Cognos software has received several key certifications for integration and interoperability with SAP NetWeaver® applications. These certifications deliver both direct benefits and enable broader integration with other enterprise software.

SAP Certification	Resulting Capabilities	Additional Capabilities
Enterprise Portal iViews	<ul style="list-style-type: none"> • Display business intelligence content within an SAP NetWeaver® Portal using common iViews • Access all Cognos 8 BI capabilities within an SAP NetWeaver® Portal 	<ul style="list-style-type: none"> • Extend single sign on and authorization leveraging parameters from SAP NetWeaver® with IBM Cognos 8v4 platform
SAP Web Application Server (J2EE-DEP)	<ul style="list-style-type: none"> • The option to run the IBM Cognos 8 platform on an SAP NetWeaver® Web Application Server 	<ul style="list-style-type: none"> • Support for major Web Application Servers such as IBM WebSphere, Oracle and others
SAP ERP Central Component 6.0	<ul style="list-style-type: none"> • The ability of all performance management capabilities within the IBM Cognos 8 platform to access InfoSets, ABAP queries, tables, functions and other data residing within SAP® ECC transaction system <i>(Note: this certified capability is enabled by the IBM Cognos Virtual View Manager, a component of the IBM Cognos 8 platform.)</i> 	<ul style="list-style-type: none"> • The ability of all performance management capabilities within the IBM Cognos 8 platform to access InfoSets, ABAP queries, tables, BAPI and RFC functions and other data residing within SAP® R/3® transaction system <i>(Note: this capability is enabled by the IBM Cognos Virtual View Manager, a component of the IBM Cognos 8 platform which also enables access to Salesforce.com, Siebel, WSDL, custom Java procedures, XML and other data sources.)</i>

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SAP Certification	Resulting Capabilities	Additional Capabilities
<p>OLAP BAPI Interface for SAP BW (BW-OBI)</p>	<ul style="list-style-type: none"> • The ability of all performance management capabilities within the IBM Cognos 8 platform to access Meta data, Master Data, InfoCubes, InfoQueries, and other data structures within a SAP NetWeaver® Business Warehouse environment 	<ul style="list-style-type: none"> • The ability of all performance management capabilities within the IBM Cognos 8 platform to access data across multiple instances and versions of the SAP NetWeaver® Business Warehouse • Patent-pending next generation innovation to optimize MDX sent to the Business Warehouse based on the context of the request being made • Seamlessly combine data from the SAP NetWeaver® Business Warehouse with SAP® ECC®, SAP® R/3®, and non-SAP data sources for creation of IBM Cognos content such as reports, plans and dashboards

IBM Cognos 8 Interoperability with SAP NetWeaver® and the SAP Business Suite®

IBM Cognos 8 Business Intelligence and IBM Cognos 8 Planning provide integrated, interoperable yet technology-independent solutions for organizations seeking to extend their use of SAP NetWeaver® data and applications.

SAP NetWeaver® Portal

- IBM Cognos 8 BI interoperates with the SAP NetWeaver® Web Application Server.
- IBM Cognos 8 BI provides NetWeaver iViews that are used to define customizable performance management content displayed within the NetWeaver portal. Although not a comprehensive listing, the integration with NetWeaver iViews supports:
 - Metric Studio Portlets: Metric History Chart and Metric List
 - IBM Cognos Utilities: Bookmarks Viewer, HTML Source, HTML Viewer, Image Viewer, RSS Viewer and Multi-Page Dashboard
 - IBM Cognos Content: IBM Cognos Navigator
 - IBM Cognos Viewer
 - IBM Cognos Extended Applications using the IBM Cognos 8 Software Development Kit

SAP NetWeaver® Business Warehouse

- **Certified Interface:** The IBM Cognos 8 platform uses a certified OLAP BAPI interface.
- **Unbounded Access:** The IBM Cognos 8 platform provides unbounded access to BEx queries and all structures within the Business Warehouse, including InfoCubes, InfoQueries, InfoProviders, MultiProviders, ODS, Master Data and Business Rules. All performance management capabilities within the IBM Cognos 8 platform can leverage data from the SAP NetWeaver® Business Warehouse through a single SAP BAPI interface.

- **Multiple Versions and Instances:** IBM Cognos 8 BI provides support for simultaneous access to multiple versions and instances of the Business Warehouse. This capability saves time and reduces IT backlog by empowering business users with access to all the data they need regardless of its source.
- **Native Access:** IBM Cognos software supports native access to SAP® security without the need to replicate or externalize SAP® security settings.

Use of Security Within an SAP NetWeaver® Application

- **Business Warehouse Security:** IBM Cognos 8 platform uses existing security to ensure users access only the data they are entitled to view.
- **Single Sign-On:** IBM Cognos software supports single sign-on authentication with the SAP NetWeaver® portal.
- **Flexibility:** IBM Cognos software enables use of custom security providers in addition to the methods outlined above.

SAP Business Suite®

- As a component of the IBM Cognos 8 platform, IBM Cognos Virtual View Manager enables access to data residing within the SAP Business Suite® as well as SAP® R/3®.

Open Data Access

- Performance management content can contain data from instances of SAP NetWeaver® Business Warehouse, SAP Business Suite® and SAP® R/3® and other non-SAP data sources without the need for ABAP coding or data migration.

IBM Cognos Performance Management Solutions for use with SAP®

IBM Cognos performance management software uses heterogeneous data sources and enables rapid reactions to changes in business and IT environments. Through self-service authoring for queries, reports, scorecards, dashboards, analysis, and planning, IBM clients broaden information distribution and enable timely, informed decisions that ultimately drive and improve corporate performance. Delivered on a unified SOA platform, capabilities of IBM Cognos performance management for use with SAP applications includes:

IBM Cognos 8 Business Intelligence

IBM Cognos 8 Business Intelligence (BI) is the only product to deliver the complete range of BI capabilities: reporting, ad hoc query, analysis, scorecarding, dashboards, business event management and data integration on a single, proven service-oriented architecture. IBM Cognos 8 BI is easy for IT to integrate, deploy and use, providing a simplified BI environment that increases user adoption, enables better decision-making and serves as an enterprise-scale foundation for performance management.

IBM Cognos 8 BI enables business users to extend investments in SAP NetWeaver® data and applications across the enterprise to answer key business questions quickly, and is built on a modern architecture to reduce impact on IT. It delivers self-service authoring and access over the Web, with effortless ad hoc query, sophisticated formatting, pixel-perfect control, multi-page reports across multiple data sources, intuitive dashboards, analysis, active score carding and more – all in a single product.

IBM Cognos 8 BI not only uses Business Warehouse data and structures, but also multiple instances of the Business Warehouse as well as the SAP Business Suite® and SAP® R/3® as data sources. Business users can leverage all data and structures, including InfoCubes, InfoProviders, InfoQueries and Master and ODS Data with minimal reliance on IT resources.

IBM Cognos 8 BI Web services and its service-oriented architecture provide greater IT flexibility and agility to use SAP NetWeaver® and non-SAP infrastructures – including security, data sources, application servers, portals and more.

Combining IBM Cognos 8 BI with your investment in SAP NetWeaver® reduces IT efforts, lowers ownership costs and increases return on investment. With IBM Cognos 8 BI, personnel across the enterprise have the information they need to drive performance with better, faster decisions.

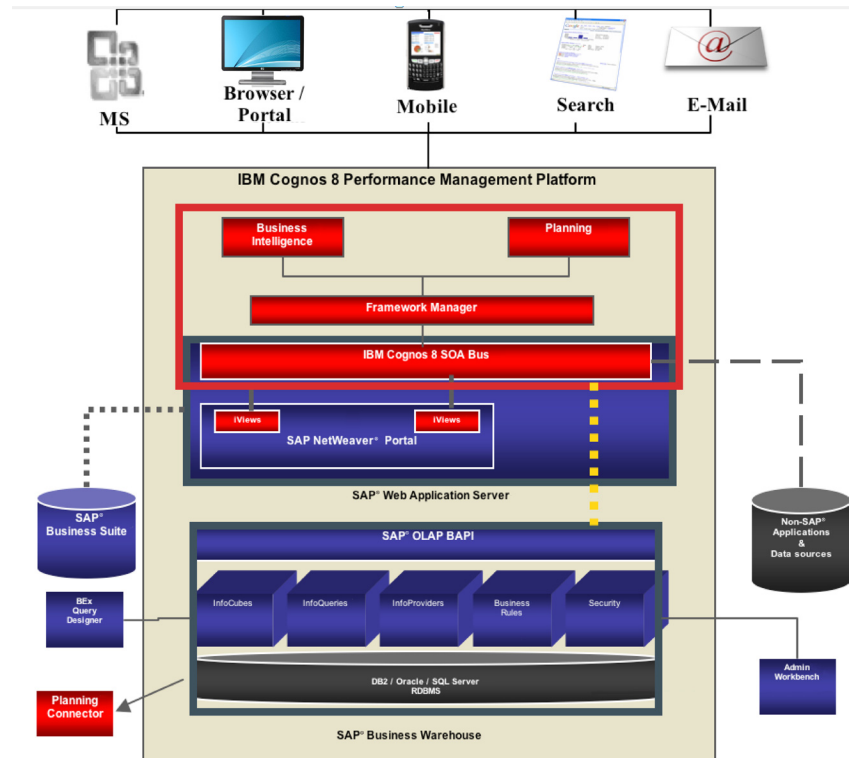


Figure 1. High-Level Architecture of IBM Cognos 8 within an SAP NetWeaver® environment

IBM Cognos 8 Business Intelligence delivers:

- One BI tool for all needs, across all data sources and user groups.
- All BI capabilities in a single tool—reporting, ad hoc query, scorecarding, dashboards, analysis and business event management.
- Self-service authoring for business users to reduce impact and ongoing dependence on IT.
- Support for all data and IT infrastructures and the ability to adapt to changes without disrupting the user experience.
- Flexibility to enable use of new or existing versions and multiple instances of SAP NetWeaver® data sources.
- Support for SAP® security and business rules, including languages, hierarchies, aggregations, currency conversion and other entities.
- Increased user adoption, access to timely and relevant information, reduced impact and dependence on IT and low ownership costs for any enterprise BI deployment.

IBM Cognos 8 Planning

IBM Cognos 8 Planning delivers a critical enterprise capability that provides real-time visibility into resource requirements and future business results for plans, budgets and forecasts. It supports best practices such as driver-based planning and rolling forecasts and serves as the cornerstone for enterprise-wide performance management.

IBM Cognos 8 Planning enhances SAP NetWeaver® applications by allowing companies to embrace existing investments while enjoying all the benefits of a proven planning high-frequency, high-participation, automated workflow and approval, maximum control, a single, up-to-the-minute view of the enterprise, broad functionality and ease of use.

IBM Cognos 8 Planning extends the value of SAP NetWeaver® data with its driver-based planning structure and by placing ownership of business models and rules in the hands of business users – thereby reducing dependence on IT. By using an intelligent distributed architecture to handle the sudden peaks in participation and system usage in the planning process, IBM Cognos 8 Planning also enhances operational calculations by offering the only proven, scalable solution to provide sensible client processing, proper bandwidth consumption, appropriate server resource usage and deep integration with IBM Cognos 8 BI.

IBM Cognos 8 Planning delivers:

- A complete solution for business users to create their own driver-based planning systems, model their own data, access the most current intelligence about expected results. Self-service authoring lets business users build their own plans or change structures and underlying assumptions.
- Decentralized modeling capabilities to enable departments and functions to link plans together into a global view of the entire plan, plus easy-to-use interfaces on the Web and through Microsoft Excel.
- Consistent calculations, assumptions and underlying algorithms from top to bottom enable everyone to work toward a common goal.
- Simplified deployment and complete integration with IBM Cognos 8 BI to encourage broad user adoption and process alignment.
- Support for all data and IT infrastructures, easily accommodating data in different formats from different core systems, such as the SAP NetWeaver® Business Warehouse.

IBM Cognos TM1

For customers seeking ad hoc and comparative analysis to consolidate, view and edit large and complex volumes of multi-dimensional data in real time, IBM Cognos TM1 has a proven track record supporting financial performance management while reducing backlogs and burdens for specialized IT resources by extending the value of your investment in the SAP NetWeaver® Business Warehouse.

IBM Cognos TM1 uses an RFC/ABAP interface to the SAP NetWeaver® Business Warehouse. Using a patented, 64-bit, in-memory OLAP server, TM1 customers can rapidly deliver ad hoc and comparative analysis of data residing within the Business Warehouse and other corporate data stores.

With the fastest analytics in the industry and unparalleled real-time, read-write response, IBM Cognos TM1 provides a comprehensive application that requires little or no reliance on IT resources, yet enables IT to maintain control over implementation and data security.

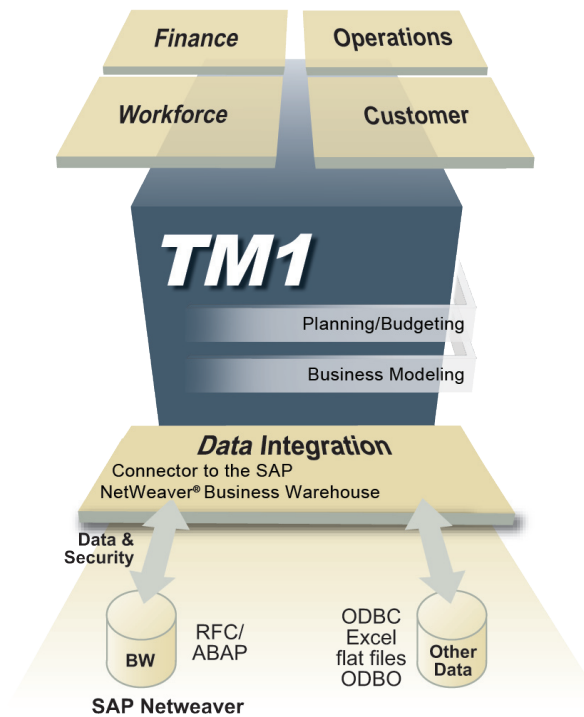


Figure2. BM Cognos TM1 for use with the SAP NetWeaver® Business Warehouse

IBM Cognos TM1 delivers:

- Multi-dimensional cube architecture, a highly efficient means of storing data allows for greater performance through faster query and load times.
- Business unit “ownership” and the ability to perform complex business modeling and analysis using data from the SAP NetWeaver® Business Warehouse.
- The ability to quickly build powerful models using critical business information with minimal demands on IT resources. User-built models are used easily by financial analysts, line-of-business managers and executives through the TM1 Microsoft Excel interface.
- Security and auditability features that allow security information from SAP NetWeaver® to be pulled into TM1, providing the same levels of security and a built-in audit trail of all changes made to the data for regulatory reporting.
- Real-time write-back to the SAP NetWeaver® Business Warehouse function through the TM1 Connector, allowing for complex analysis.
- Ability to merge other data sources by delivering a direct connection to other ERP and general ledger resources for timely access to data.
- Quick implementations with common IBM Cognos TM1 applications taking a fraction of the time required by competing products.

Confidence: Why an Investment in IBM Cognos Software is the Right Choice

IBM continues to lead the market with a purpose-built, unified performance management platform using a service-oriented architecture. An investment in IBM Cognos performance management software and solutions for use with SAP NetWeaver® applications means embracing existing SAP® skills and infrastructure, enhancing the value of your data and extending user reach and impact across all your data, applications and infrastructure across the enterprise.

Leading organizations choose performance management software from IBM for our unique ability to deliver:

- **User Self-Service** that offers the ability to create and customize BI and planning content within a single interface, while using controls and security within the SAP NetWeaver® Business Warehouse. IBM clients find this approach reduces reliance on specialized and scarce IT resources.
- **Flexibility** to use all corporate information without dependencies on underlying data applications and infrastructure.
- **Agility** for fast, on-the-fly creation, modification, alteration and changes to reports, plans, financial models and data sources by business users.
- **Proven Capabilities** that yield predictable results from IBM Cognos performance management focus, customer success and solution expertise.
- **Comprehensive Solutions** offering unified performance management capabilities within a single SOA platform that enables reliable, consistent content and lower administration and training costs.

To learn more about how IBM clients are enhancing and extending their investments in SAP NetWeaver® applications, please see <http://www.ibm.com/software/data/cognos/solutions/sap>.

Frequently Asked Questions

Q: *Is IBM Cognos software dependant on specific versions of SAP® or SAP NetWeaver®?*

A: IBM Cognos software provides SAP® version flexibility. It does not require mandatory upgrades to the latest versions of the SAP® GUI, transaction system, SAP NetWeaver® Portal or the SAP NetWeaver® Business Warehouse.

Q: *How does IBM Cognos 8 BI integrate with the Business Warehouse?*

A: IBM Cognos 8 BI uses an open OLAP BAPI interface to integrate with the SAP NetWeaver® Business Warehouse. Through the OLAP BAPI, you can access and leverage:

- Every structure and BEx query that resides within the Business Warehouse.
- Authentication, authorization and role security as defined and retained within the Business Warehouse.
- Multiple versions and/or instances of the Business Warehouse.

Q: *How does IBM Cognos 8 BI integrate with the SAP Business Suite®?*

A: IBM Cognos 8 BI extends your investment in SAP® applications through a connection to SAP® R/3® and the SAP Business Suite® as data sources. With IBM Cognos Virtual View Manager, a component of the Cognos 8 platform, ABAP Queries, InfoSets and other data can be used. Data in any of these systems is then available in a model once use everywhere environment for reports, plans, dashboards, scorecards and more.

Q: *How does IBM Cognos software support the SAP NetWeaver® Platform?*

A: IBM Cognos 8 BI was one of the first business intelligence solutions to deliver a certified solution for SAP NetWeaver®. IBM continues to provide certified solutions for the SAP NetWeaver® Business Warehouse, SAP® Web Application Server and SAP NetWeaver® Portal.

IBM Cognos 8 BI delivers integrated iViews for displaying IBM Cognos content within a NetWeaver® portal. IBM Cognos 8 BI supports single sign-on with the NetWeaver® environment and the ability to use data within ECC for creation of business intelligence content.

Q: *How does IBM Cognos software support the SAP NetWeaver® Business Warehouse?*

A: The Business Warehouse is a strategic data source for many customers. As part of our unique ability to enhance these investments, IBM clients have the following flexibility:

- Extend Business Warehouse data within IBM Cognos 8 BI and IBM Cognos 8 Planning.
- Use all structures within the Business Warehouse as a data source for business intelligence.
- Utilize multiple instances and versions of the Business Warehouse.
- Optimized access from IBM Cognos 8 BI to the Business Warehouse.

Q: *How does IBM Cognos 8 software work with the Business Warehouse Accelerator?*

A: As a certified OLAP-BAPI integration with the SAP NetWeaver Business Warehouse, IBM Cognos 8 software provides transparent support for the Business Warehouse Accelerator.

Specifically, testing in labs has shown customers eager to improve the scale and responsiveness of their environment using the Business Warehouse Accelerator receive improvements in query performance within the Business Warehouse

Q: *How does IBM Cognos 8 BI interoperate with Business Explorer?*

A: All queries and business rules built within Business Explorer (BEx) Query Designer can be natively read and used by IBM Cognos 8 BI. This means all current and future work invested in BEx queries can be used in the IBM Cognos environment. This enables customers to enhance their investment in BEx queries and data and extend this data throughout the enterprise



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About IBM Cognos BI and Performance Management

IBM Cognos business intelligence (BI) and performance management solutions deliver world-leading enterprise planning, consolidation and BI software, support and services to help companies plan, understand and manage financial and operational performance. IBM Cognos solutions bring together technology, analytical applications, best practices, and a broad network of partners to give customers an open, adaptive and complete performance solution. Over 23,000 customers in more than 135 countries around the world choose IBM Cognos solutions.

For additional information on how IBM Cognos 8 can help you embrace, enhance and extend your investment in SAP NetWeaver Business Warehouse please visit www.ibm.com/cognos/sap or contact your IBM Account Executive.

Request a call

To request a call or to ask a question, go to www.ibm.com/cognos/contactus.
An IBM Cognos representative will respond to your enquiry within two business days.

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