

# Crystal Reports XI Release 2 - Service Pack 6

## Supported Platforms

---

## Overview

This document lists specific platforms and configurations for Crystal Reports XI Release 2 - Service Pack 6.

## Contents

|  |           |
|--|-----------|
| <b>INTRODUCTION</b> .....  | <b>3</b>  |
| <b>PRODUCTS</b> .....  | <b>3</b>  |
| <b>LANGUAGES</b> .....   | <b>3</b>  |
| <b>SUPPORTED OPERATING SYSTEMS</b> .....   | <b>4</b>  |
| <i>Report Designer</i> .....   | 4         |
| SAP Business Objects and Microsoft Critical Patches .....  | 4         |
| <i>Java Reporting Component (deployment only)</i> .....  | 4         |
| <b>MINIMUM HARDWARE REQUIREMENTS FOR CRYSTAL REPORTS XI RELEASE 2<br/>- SERVICE PACK 6</b> ..... | <b>5</b>  |
| Hardware Support.....  | 5         |
| <b>SUPPORTED APPLICATION SERVERS</b> .....   | <b>6</b>  |
| Applies To.....  | 6         |
| Details.....   | 6         |
| Application Server Incremental Release Support Policy .....                                      | 6         |
| JDK Version Support Policy .....   | 7         |
| Specific Patches Required for Oracle Application Server .....                                    | 7         |
| Supported HTTP Servers .....   | 7         |
| Support of IBM WebSphere and BEA WebLogic Editions .....   | 7         |
| IBM WebSphere 5.1.1.4 is not supported .....   | 7         |
| <b>SUPPORTED BROWSERS</b> .....  | <b>8</b>  |
| Applies To.....  | 8         |
| Details.....   | 8         |
| <b>MULTI-THREADED DATA SOURCES</b> .....   | <b>9</b>  |
| Applies To.....  | 9         |
| Details.....   | 9         |
| <b>SINGLE THREADED DATA SOURCES</b> .....  | <b>13</b> |

- Applies To..... 13
- Details..... 13
- Single Threaded and Multi Threaded Connectivity..... 14
- Support of SAP BW Server ..... 14
- Limitations for Generic ODBC, OLEDB and JDBC ..... 14
- JAVA REPORTING COMPONENT DATA SOURCES ..... 15**
- OTHER TOOLS ..... 15**
  - Office ..... 15
  - Admin Platform ..... 15
  - Adobe Reader ..... 16
  - Microsoft .NET Framework..... 16
  - Development Platforms ..... 16
  - Report Designer Component (RDC)..... 16
  - Wireless - Hardware ..... 16
  - Wireless - Simulator ..... 16
- FINDING MORE INFORMATION ..... 17**

## Introduction

This document contains information specific to platforms and configurations for Crystal Reports XI Release 2 - Service Pack 6. For the latest information on updates to this document, please visit SAP Business Objects Articles at:

Business Objects Articles at:

<https://www.sdn.sap.com/irj/sdn/businessobjects-articles>

|             |  |
|-------------|--|
| <b>NOTE</b> | Anything that is highlighted using red font indicates that it is an update, addition or correction made after the original release of this document. |
|-------------|--|

## Products

- Crystal Reports Designer XI R2 Standard Edition
- Crystal Reports Designer XI R2 Professional Edition
- Crystal Reports Designer XI R2 Developer Edition

## Languages

- Chinese Simplified
- Chinese Traditional
- Dutch
- English
- French
- German
- Italian
- Japanese
- Korean
- Polish
- Portuguese (Brazil)
- Russian
- Spanish
- Swedish

## Supported Operating Systems

### Report Designer

- Windows 7 (All 32-bit and 64-bit Editions)
- Windows Vista (All 32-bit and 64-bit Editions)
- Windows Vista with Service Pack 1 (All 32-bit and 64-bit Editions)
- Windows XP SP2 Professional
- Windows XP SP3 Professional
- Windows Server 2003 R2 Enterprise Edition
- Windows Server 2003 SP1 Datacenter Edition
- Windows Server 2003 SP1 Enterprise Edition
- Windows Server 2003 SP1 Standard Edition
- Windows Server 2003 SP1 Web Edition
- Windows Server 2003 (x64 Edition) SP2
- Windows 2000 SP4 Professional
- Windows 2000 SP4 Advanced Server
- Windows 2000 SP4 Datacenter Server
- Windows 2000 SP4 Server
- Windows Server 2003 SP2 (All 32-bit and 64-bit Editions)

### SAP Business Objects and Microsoft Critical Patches

SAP Business Objects supports and recommends install of all Microsoft critical patches for the operating systems listed above.

### Java Reporting Component (deployment only)

All Windows platforms defined in the 'Report Designer' section, plus the following UNIX platforms are supported by the Java Reporting Component.

- Red Hat 4.0 Advanced Server for x86
- Red Hat 4.0 Enterprise Server for x86
- SuSe Linux 9.0 Enterprise Server for x86
- Solaris 8 for Sparc
- Solaris 9 for Sparc
- AIX 5.2
- AIX 5.3
- HP-UX 11.11 (PA-RISC)

- HP-UX 11.23 (PA-RISC)

## Minimum Hardware Requirements for Crystal Reports XI Release 2 - Service Pack 6

- 700-MHz Pentium III-class processor
- 512 MB RAM
- 1.0 GB free disk space for patch
- CD-ROM

### Hardware Support

- Crystal Reports® is supported running on 32-bit versions of Windows running on x86 and x64 CPUs made by AMD and Intel.
- Crystal Reports® is supported running on 64-bit versions of Windows running on x64 CPUs made by AMD and Intel.

## Supported Application Servers

### Applies To

All components within the Crystal Reports Developer Edition that run within an application server, including:

- Java DHTML Viewers
- .Net Webform Viewers
- COM DHTML Viewers
- ActiveX Viewer
- Java Runtime Component (JRC)
- Redistributable applications that embed the reporting engine

### Details

| Application Servers           | JDK           |
|-------------------------------|---------------|
| Microsoft IIS 5.0             | N/A           |
| Microsoft IIS 6.0             | N/A           |
| Oracle OAS 10G Rel.2 (10.1.2) | JDK 1.4.2_xx  |
| JBoss 4.0.4                   | JDK 1.4.2_xx  |
| SAP WAS 6.40 SP11             | JDK 1.4.2_xx  |
| Apache Tomcat 5.0.27          | JDK 1.4.2_13+ |
|                               | JDK 1.5.0_xx  |
| Apache Tomcat 5.5             | JDK 1.5.0_xx  |
| BEA WebLogic 8.1 SP4          | JDK 1.4.2_xx  |
| BEA WebLogic 9.2              | JDK 1.5.0_04+ |
| IBM WebSphere 5.1.1.0         | JDK 1.4.2_xx  |
| IBM WebSphere 6.1.0.7         | JDK 1.5.0_xx  |

### Application Server Incremental Release Support Policy

Specified application servers versions have been successfully tested by SAP Business Objects. Incremental releases of the specified versions defined by the last number in the application server name will be supported as they are made available, but may not have been tested by SAP Business Objects. Exceptions in support will be documented.

### **JDK Version Support Policy**

JDK major versions are specified to ensure the use of correct version when there are multiple choices provided by the vendor. SAP Business Objects tests and supports any \_x release installed with a given application server.

### **Specific Patches Required for Oracle Application Server**

See release notes for exact patch level support.

### **Supported HTTP Servers**

Any supported by Application Server vendor.

### **Support of IBM WebSphere and BEA WebLogic Editions**

Network Editions of the Applications Server listed above are NOT supported. The Express Edition of WebSphere and WebLogic application servers are supported.

### **IBM WebSphere 5.1.1.4 is not supported**

Several issues have been found when applying the cf4 patchset for WebSphere 5.1.1. Moving forward to 5.1.1.5/6 or back to 5.1.1.3 both appears to fix the issue. Therefore BusinessObjects will not support this particular version of WebSphere. All other 5.1.1x versions are supported.

## Supported Browsers

### Applies To

Crystal Reports Developer Edition. All DHTML Viewers (including the .Net Webform viewers) and the ActiveX Viewer.

### Details

| Browser OS    | Browser                        | JVM   |
|---------------|--------------------------------|---|
| Macintosh OSX | Safari 1.3                     | Apple 1.4.2_xx                                |
| Windows       | Firefox 2.0                    | Sun 1.5.0_xx<br>Sun 1.6.0_02+                 |
|               | Firefox 3.0                    | Sun 1.5.0_xx<br>Sun 1.6.0_02+                 |
|               | IE 6.0 SP1                     | Sun 1.4.2_xx<br>Sun 1.5.0_xx<br>Sun 1.6.0_02+ |
|               | IE 6.0 SP2                     | Sun 1.4.2_xx<br>Sun 1.5.0_xx<br>Sun 1.6.0_02+ |
|               | IE 7.0                         | Sun 1.4.2_xx<br>Sun 1.5.0_xx<br>Sun 1.6.0_02+ |
|               | IE 7.0 SP1                     | Sun 1.4.2_xx<br>Sun 1.5.0_xx<br>Sun 1.6.0_02+ |
|               | IE 8.0<br>(Compatibility mode) | Sun 1.4.2_xx<br>Sun 1.5.0_xx<br>Sun 1.6.0_02+ |



## Multi-Threaded Data Sources

### Applies To

Crystal Reports Standard Edition\*

Crystal Reports Professional Edition

Crystal Reports Developer Edition\*\*

\*Supported Standard Edition data drivers are a subset of this list.

\*\*Java Reporting Component data access is detailed in a different section in this document. The Java Reporting Component is included only with the Developer Edition of Crystal Reports.

### Details

| Provider Name                                   | Data Connector  | Unicode Support |
|---|---|-----------------|
| <b>OLAP</b>                                     |   |                 |
| Hyperion Essbase Server 7.0                     | Hyperion Essbase API 7.0  |                 |
| Hyperion Essbase Server 7.1.x                   | Hyperion Essbase API 7.1.x  |                 |
| Hyperion System 9                               | Hyperion Essbase client 9.0   |                 |
|   | Hyperion Essbase client 9.2   |                 |
|   | Hyperion Essbase client 9.3   |                 |
| IBM DB2 OLAP Server 8.1 FixPack 3               | IBM DB2 OLAP API 8.1  |                 |
| IBM DB2 OLAP Server 8.2                         | IBM DB2 OLAP API 8.2  |                 |
| Microsoft SQL Server Analysis Services 2000 SP4 | Microsoft SQL Server 2000 Analysis Services 8.0 OLE DB Provider SP4 |                 |
| Microsoft SQL Server Analysis Services 2005 SP1 | Microsoft SQL Server 2005 Analysis Services 9.0 OLE DB Provider SP1 |                 |
| Microsoft SQL Server Analysis Services 2005 SP2 | Microsoft SQL Server 2005 Analysis Services 9.0 OLE DB Provider SP2 |                 |
| SAP BW Server 3.5 SP19                          | SAP GUI 640   |                 |
| SAP BI 7 SP10                                   | SAP GUI 640   |                 |

| <b>RDBMS</b>                      |                                |     |
|-----------------------------------|--------------------------------|-----|
| Generic JDBC Data Sources         | JDK 1.4                        | Yes |
| Generic ODBC Data Sources         | ODBC                           | Yes |
| Generic OLEDB Data Sources        | OLEDB                          | Yes |
| HP NeoView 2.2                    | HP NeoView ODBC 2.2            | Yes |
| HP NeoView 2.3.1                  | HP NeoView ODBC 2.3.1          | Yes |
| IBM DB2/UDB for iSeries 5.2       | DB2 Client 8.1                 | Yes |
|                                   | IBM iSeries Access (JDBC) 5.2  | Yes |
|                                   | IBM iSeries Access (ODBC) 5.2  | Yes |
|                                   | IBM iSeries Access (OLEDB) 5.2 | Yes |
|                                   | DB2 ODBC Client 8.1            | Yes |
| IBM DB2/UDB for iSeries 5.3       | DB2 Client 8.2                 | Yes |
|                                   | IBM iSeries Access (JDBC) 5.3  | Yes |
|                                   | IBM iSeries Access (ODBC) 5.3  | Yes |
|                                   | IBM iSeries Access (OLEDB) 5.3 | Yes |
|                                   | DB2 ODBC Client 8.2            | Yes |
| IBM DB2/UDB for NT/Unix/Linux 8.1 | DB2 Client 8.1                 | Yes |
|                                   | DB2 JDBC 8.1                   | Yes |
|                                   | DB2 ODBC Client 8.1            | Yes |
|                                   | DB2 OLEDB 8.1                  | Yes |
| IBM DB2/UDB for NT/Unix/Linux 8.2 | DB2 Client 8.2                 | Yes |
|                                   | DB2 JDBC 8.2                   | Yes |
|                                   | DB2 ODBC Client 8.2            | Yes |
|                                   | DB2 OLEDB 8.2                  | Yes |
| IBM DB2/UDB for NT/Unix/Linux 9.1 | DB2 Client 9.1                 | Yes |
|                                   | DB2 JDBC 9.1                   | Yes |
|                                   | DB2 ODBC Client 9.1            | Yes |
|                                   | DB2 OLEDB 9.1                  | Yes |
| IBM DB2/UDB for NT/Unix/Linux 9.5 | DB2 Client 9.5                 | Yes |
|                                   | DB2 JDBC 9.5                   | Yes |
|                                   | DB2 ODBC Client 9.5            | Yes |
|                                   | DB2 OLEDB 9.5                  | Yes |
| IBM DB2/UDB for zSeries 7         | DB2 Client 8.1                 | Yes |
|                                   | DB2 ODBC Client 8.1            | Yes |
| IBM/DB2/UDB for zSeries 8         | DB2 Client 8.2                 | Yes |
|                                   | DB2 ODBC Client 8.2            | Yes |
| IBM Informix Dynamic Server 10.0  | IBM Informix ODBC SDK 2.90     | Yes |
| IBM Informix Dynamic Server 9.4   | IBM Informix ODBC SDK 2.81     | Yes |
| Microsoft Access 2000             | DAO 3.6                        | Yes |
|                                   | Microsoft ODBC Access 2000     | Yes |

|   |                                      |     |
|---|--------------------------------------|-----|
|   | Microsoft OLEDB Access 2000          | Yes |
| Microsoft Access 2003                   | DAO 3.6                              | Yes |
|   | Microsoft ODBC Access 2003           | Yes |
|   | Microsoft OLEDB Access 2003          | Yes |
| Microsoft SQL Server 2000 SP4           | JDBC SQL Server 2000                 | Yes |
|   | Microsoft ODBC MDAC 2.8              | Yes |
|   | Microsoft OLEDB MDAC 2.8             | Yes |
| Microsoft SQL Server 2005 RTM, SP1, SP2 | JDBC SQL Server 2005                 | Yes |
|   | Microsoft ODBC MDAC 2.8              | Yes |
|   | Microsoft ODBC SNAC (Native Client)  | Yes |
|   | Microsoft OLEDB MDAC 2.8             | Yes |
|   | Microsoft OLEDB SNAC (Native Client) | Yes |
| Microsoft SQL Server 2008               | Microsoft OLEDB MDAC 2.8             | Yes |
|   | Microsoft ODBC MDAC 2.8              | Yes |
| Microsoft SQL Server 7.0 SP4            | Microsoft ODBC MDAC 2.7              | Yes |
|   | Microsoft OLEDB MDAC 2.7             | Yes |
| MySQL 4.1.10a                           | JDBC MySQL                           | Yes |
|   | MySQL ODBC Connector 3.51.12         | Yes |
| MySQL 4.1.13                            | JDBC MySQL                           | Yes |
|   | MySQL ODBC Connector 3.51.12         | Yes |
| MySQL 5.0                               | MySQL ODBC Connector 3.51.12         | Yes |
|   | MySQL ODBC Connector 5.1.4           | Yes |
|   | MySQL AB JDBC V5.0                   | Yes |
| NCR Teradata V2R6                       | NCR Teradata JDBC 03.02.00           | Yes |
|   | NCR Teradata ODBC 3.04               | Yes |
| NCR Teradata V2R6.1                     | NCR Teradata ODBC 3.05               | Yes |
| NCR Teradata V2R6.2                     | NCR Teradata ODBC 3.06               | Yes |
| Teradata v12                            | Teradata ODBC 12 ( TTU 12.0 )        | Yes |
|   | Teradata JDBC 12 ( TTU 12.0 )        | Yes |
| Netezza NPS Server 2.5                  | Netezza ODBC 2.5                     | Yes |
| Netezza NPS Server 3.0                  | Netezza ODBC 3.0                     | Yes |
| Netezza NPS Server 3.1                  | Netezza ODBC 3.1                     | Yes |

|  |                         |     |
|--|-------------------------|-----|
| Netezza NPS Server 4.0                 | Netezza ODBC 4.0        | Yes |
| Netezza NPS Server 4.5                 | Netezza ODBC 4.5        | Yes |
|  | Netezza JDBC Access     | Yes |
| Oracle 11g                             | JDBC Oracle 11          | Yes |
|  | ODBC Oracle 11          | Yes |
|  | OLEDB Oracle 11         | Yes |
|  | Oracle .NET Client 11   | Yes |
| Oracle 10g R1 (10.1)                   | JDBC Oracle 10.1        | Yes |
|  | ODBC Oracle 10.1        | Yes |
|  | OLEDB Oracle 10.1       | Yes |
|  | Oracle Net Client 10.1  | Yes |
| Oracle 10g R2 (10.2)                   | JDBC Oracle 10.2        | Yes |
|  | ODBC Oracle 10.2        | Yes |
|  | OLEDB Oracle 10.2       | Yes |
|  | Oracle Net Client 10.2  | Yes |
| Oracle 10g R2 RAC                      | JDBC Oracle 10.2        | Yes |
|  | ODBC Oracle 10.2        | Yes |
|  | OLEDB Oracle 10.2       | Yes |
|  | Oracle Net Client 10.2  | Yes |
| Oracle 9.2                             | JDBC Oracle 9.2         | Yes |
|  | ODBC Oracle 9.2         | Yes |
|  | OLEDB Oracle 9.2        | Yes |
|  | Oracle Net Client 9.2   | Yes |
| Sybase Adaptive Server Enterprise 12.5 | JDBC Sybase 12.5        | Yes |
|  | ODBC Sybase 12.5        | Yes |
|  | Sybase Open Client 12.5 |     |
| Sybase Adaptive Server Enterprise 15   | Sybase Open Client 15   |     |
| Ingres 2006 Enterprise Release 2       | Generic ODBC            | Yes |
| <b>Technology</b>                      |                         |     |
| ADO. NET                               | MS .NET Framework 1.0   | Yes |
|  | MS .NET Framework 1.1   | Yes |
|  | MS .NET Framework 2.0   | Yes |
| COM                                    | N/A                     | Yes |
| Microsoft Excel 2000                   | DAO 3.6                 | Yes |
|  | ODBC                    | Yes |
|  | OLEDB                   | Yes |
| Microsoft Excel 2003                   | DAO 3.6                 | Yes |
|  | ODBC                    | Yes |
|  | OLEDB                   | Yes |
| Microsoft Exchange 2000                | Microsoft Office 2000   |     |
| Microsoft Exchange 2003                | Microsoft Office 2003   | Yes |
| Field Definitions                      | N/A                     | Yes |
| Java Bean                              | JDK 1.4                 | Yes |
| XML                                    | JDK 1.4                 | Yes |

## Single Threaded Data Sources

### Applies To

Crystal Reports Standard Edition\*

Crystal Reports Professional Edition

Crystal Reports Developer Edition

\*Supported Standard Edition data drivers are a subset of this list.

\*\*Java Reporting Component data access is detailed in a different section in this document. The Java Reporting Component is included only with the Developer Edition of Crystal Reports.

### Details

| Provider Name                    | Data Connector          | Unicode Support |
|----------------------------------|-------------------------|-----------------|
| <b>RDBMS</b>                     |                         |                 |
| IBM Informix Dynamic Server 10.0 | IDS Client 10.0         |                 |
| IBM Informix Dynamic Server 9.4  | IDS Client 9.4          |                 |
| <b>Technology</b>                |                         |                 |
| ACT 5                            | ACT 5                   |                 |
| ACT 6                            | ACT 6                   |                 |
| Borland Database Engine 5.1      | BDE 5.1                 |                 |
| Exchange 5.5                     | Microsoft Office 2000   |                 |
| File System                      | N/A                     | Yes             |
| Lotus Notes 5                    | ODBC Lotus Notes 5      | Yes             |
| Lotus Notes 6                    | ODBC Lotus Notes 6      | Yes             |
| Microsoft IIS Log                | N/A                     |                 |
| Microsoft Outlook 2000           | Microsoft Office 2000   |                 |
| Microsoft Outlook 2003           | Microsoft Office 2003   |                 |
| Windows (NT) Event Log           | N/A                     |                 |
| Pervasive SQL 10                 | ODBC Pervasive 10       | Yes             |
|                                  | Pervasive SQL Client 10 |                 |
| Text                             | ODBC                    | Yes             |
| Web Log                          | N/A                     |                 |
| Xbase                            | N/A                     |                 |

### Single Threaded and Multi Threaded Connectivity

Both single threaded data drivers are well suited for use within the Crystal Reports designer. When deploying to a multi-user environment, then multi-threaded drivers should be used when executing reports on-demand. Single-threaded data drivers used in a multi-user environment will cause the engine to process each request serially.

### Support of SAP BW Server

BusinessObjects XI R2 Integration Kit for SAP must be installed in order to use SAP BW Server as a data source in Crystal Reports. The exact patch levels required for SAP BW servers and API are specified in the Platforms.txt for BusinessObjects XI Release 2 Integration Kit for SAP.

### Limitations for Generic ODBC, OLEDB and JDBC

The Database server, Client and ODBC/JDBC/OLEDB driver used must support multiple threads.

Generic JDBC: 3rd Party JDBC Type 4-compliant drivers may potentially have issues as not all combinations have been tested, but are supported for \*relational database access\* as a general rule.

Generic ODBC: 3rd Party ODBC Level 2-compliant Drivers may potentially have issues as not all combinations have been tested yet, but are supported as a general rule.

## Java Reporting Component Data Sources

The Java Reporting Component is only included in the Developer Edition of Crystal Reports.

| Provider Name                 | Data Connector      |
|-------------------------------|---------------------|
| Oracle 8.1.7                  | JDBC Oracle 9.2     |
| Oracle 9.2                    | JDBC Oracle 9.2     |
| Oracle 10.1                   | JDBC Oracle 10.1    |
| IBM DB2/UDB for NT/Unix 8.1   | JDBC DB2 8.1        |
| IBM DB2/UDB for NT/Unix 8.2   | JDBC DB2 8.2        |
| Microsoft SQL Server 2000 SP3 | JDBC SQLServer 2000 |
| Microsoft SQL Server 2005     | JDBC SQLServer 2005 |
| MySQL 4.0                     | JDBC MySQL          |
| Generic JDBC                  | JDK 1.4             |
| XML                           | JDK 1.4             |
| Javabeans                     | JDK 1.4             |

## Other Tools

### Office

- Microsoft Office 2000 SP3
- Microsoft Office 2003
- Microsoft Office 2003 SP1
- Microsoft Office 2003 SP2
- Microsoft Office XP
- Microsoft Office XP SP1
- Microsoft Office XP SP2
- Microsoft Office XP SP3
- Microsoft Office 2007 (as an export destination)

### Admin Platform

- Citrix Metaframe XP 1.0 + FR3
- Citrix Metaframe XPE 1.0 + FR3

**Note:** Citrix is not supported for Chinese and Korean.

### Adobe Reader

- Adobe Reader 5.0
- Adobe Reader 7.0
- Adobe Reader 8.1.2

### Microsoft .NET Framework

- .NET 1.0
- .NET 1.1
- .NET 2.0
- .NET 3.0 (1)

(1) Only applies to the Crystal Reports runtime engine when running on Windows Vista.

### Development Platforms

- Visual Studio .NET 2002
- Visual Studio .NET 2003
- Visual Studio .NET 2005

**Note:** This section refers to the Visual Studio components that are included in Crystal Reports. These components are not supported when running in Visual Studio 2003 on Windows Vista, since Visual Studio 2003 doesn't support Windows Vista. For more information see the Microsoft Visual Studio and Windows Vista FAQ here: <http://msdn2.microsoft.com/en-us/vstudio/aa948854.aspx>

### Report Designer Component (RDC)

- Visual C++ 6.0
- Visual Basic 6.0

### Wireless – Hardware

- Pocket PC Hardware 2000
- Rim Blackberry OS 957 2.6

### Wireless – Simulator

- Pocket PC Simulator 2003
- Rim Blackberry Simulator 3.6



## Finding More Information

For more information and resources, refer to the product documentation and visit the support area of the web site at:

<http://help.sap.com>

© Copyright 2009 SAP AG. All rights reserved.

All rights reserved. SAP, R/3, SAP NetWeaver, Duet, PartnerEdge, ByDesign, SAP Business ByDesign, and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and other countries.

Business Objects and the Business Objects logo, BusinessObjects, Crystal Reports, Crystal Decisions, Web Intelligence, Xcelsius, and other Business Objects products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Business Objects S.A. in the United States and in other countries. Business Objects is an SAP company.

All other product and service names mentioned are the trademarks of their respective companies. Data contained in this document serves informational purposes only. National product specifications may vary.

These materials are subject to change without notice. These materials are provided by SAP AG and its affiliated companies ("SAP Group") for informational purposes only, without representation or warranty of any kind, and SAP Group shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP Group products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.