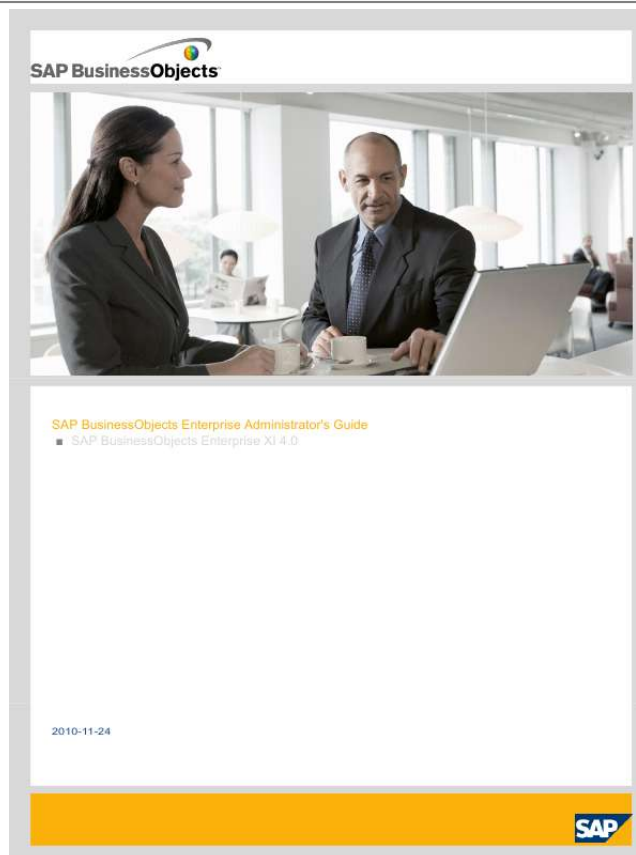




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Operating instructions BUSINESS OBJECTS ENTERPRISE XI 4.0
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.....845 Schema diagram.

The number of hosts, nodes, servers and services--as well as the type of servers, and services--will vary in real-world installations.

17 2010-11-24 Getting Started Two hosts form the cluster named ProductionBISystem, with two hosts: · The host named HostAlpha has SAP BusinessObjects Enterprise installed and is configured to have two nodes: · · NodeMercury: contains an Adaptive Job Server (NodeMercury.AJS) with services to schedule and publish reports, an Input File Repository Server (NodeMercury.IFRS) with a service to store input reports, and an Output File Repository Server (NodeMercury.OFRS) with a service to store report output. NodeVenus: contains an Adaptive Processing Server (NodeVenus.APS) with services to provide publishing, monitoring, and translation features, an Adaptive Processing Server (NodeVenus.APS2) with a service to provide client auditing, and a Central Management Server (NodeVenus.CMS) with a service to provide the CMS services. · The host named HostBeta has SAP BusinessObjects Enterprise installed and is configured to have three nodes: · · NodeMars: contains a Central Management Server (NodeMars.CMS) with a service to provide the CMS services. NodeJupiter: contains an Interactive Analysis Processing Server (NodeJupiter.InteractiveAnalysis) with a service to provide Interactive Analysis reporting, and an Event Server (NodeJupiter.EventServer) to provide report monitoring of files. 18 2010-11-24 Getting Started · NodeSaturn: contains an Adaptive Processing Server (NodeSaturn.APS) with a service to provide client auditing. SAP BusinessObjects Enterprise uses the terms server and service to refer to the two types of software running on an SAP BusinessObjects Enterprise machine. A service is a server subsystem that performs a specific function. The service runs within the memory space of its server under the process id of the parent container (server). For example, the SAP BusinessObjects Interactive Analysis Scheduling and Publishing Service is a subsystem that runs within the Adaptive Job Server. The term server is used to describe an operating system level process (on some systems, this is referred to as a daemon) hosting one or more services.

For example, the Central Management Server (CMS) and Adaptive Processing Server are servers. A server runs under a specific operating system account and has its own PID. A node is a collection of SAP BusinessObjects Enterprise servers running on the same host. One or more nodes can be on a single host. SAP BusinessObjects Enterprise can be installed on a single machine, spread across different machines on an intranet, or separated over a wide area network (WAN). 1.1.1.2 Server Intelligence Server Intelligence is a component of the Central Management Console (CMC) to manage a collection or server processes, collectively known as a node. Changes to server processes applied in the CMC are propagated to affected servers by the Server Intelligence Agent (SIA). The SIA is also used for the automatic restart or shutdown of a server if it encounters an unexpected condition, and is used by the Central Management Server (CMC) to manage nodes. The Server Intelligence Agent (SIA) server archives server information in the CMS system database so you can easily restore default server settings, or create redundant instances of server processes with the same settings. 1.1.2 Key administrative tools 1.

1.2.1 Central Management Console (CMC) 19 2010-11-24 Getting Started The Central Management Console (CMC) is a web-based tool to perform administrative tasks, including user, content, and server management. It also allows you to publish, organize, and configure security settings. Because the CMC is a web-based application, you can perform all of these administrative tasks through a web browser on any machine that can connect to the server. All users can log on to the CMC to change their user preference settings. Only members of the Administrators group can change management settings, unless explicitly granted the rights to do so. Roles can also be assigned to the CMC to grant some users privileges to perform minor administrative tasks 1.1.2.2 Central Configuration Manager (CCM) The Central Configuration Manager (CCM) is a server troubleshooting and node management tool provided in two forms. In a Microsoft Windows environment, the CCM allows you to manage local and remote servers through its graphical user interface (GUI) or from a command line. In a Unix environment, the CCM shell script (ccm.sh) allows you to manage servers from the command-line. The CCM allows you to create and configure Server Intelligence Agent (SIA) nodes and start or stop your web application server.

On Windows, it also allows you to configure network parameters, such as Secure Socket Layer (SSL) encryption. These parameters apply to all servers within a node. Note: Most server management tasks are now handled through the CMC, not through the CCM. The CCM is now used for troubleshooting and node configuration. 1.1.2.3 Repository Diagnostic Tool The Repository Diagnostic Tool (RDT) can scan, diagnose, and repair inconsistencies that may occur between the Central Management Server (CMS) system database and the File Repository Servers (FRS) filestore. You can set a limit for the number of errors the RDT will find and repair before stopping. RDT should be used after you restore your SAP BusinessObjects Enterprise system.

1.1.2.4 Upgrade management tool Upgrade management tool (formerly Import Wizard) is installed as a part of SAP BusinessObjects Enterprise, and guides administrators through the process of importing users, groups, and folders from 20 2010-11-24 Getting Started previous versions of SAP BusinessObjects Enterprise. It also allows you to import and upgrade objects, events, server groups, repository objects, and calendars.

For information on upgrading from a previous version of SAP BusinessObjects Enterprise, see the SAP BusinessObjects Enterprise Upgrade Guide. 1.1.3 Key tasks Depending on your situation, you may want to focus on specific sections of this help, and there may be other resources available for you. For each of the following situations, there is a list of suggested tasks and reading topics.

Related Topics · Planning or performing your first deployment · Configuring your deployment · Improving your system's performance · Central Management Console (CMC) 1.1.3.1 Planning or performing your first deployment If you are planning or performing your first deployment of SAP BusinessObjects Enterprise, it is recommended that you perform the following tasks and read the corresponding sections: · · · · · To get familiar with the SAP BusinessObjects Enterprise components, read "Architectural overview". To assess your needs and design a deployment architecture that works best for you, read the SAP BusinessObjects Enterprise Deployment Planning Guide.



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"Understanding communication between SAP BusinessObjects Enterprise components". "Security overview". If you plan to use third-party authentication, read "Authentication". For more information about installing SAP BusinessObjects Enterprise, see the SAP BusinessObjects Enterprise Installation Guide. After you install, read "Server management overview".

Related Topics · Architecture overview · Understanding communication between SAP BusinessObjects Enterprise components 21 2010-11-24 Getting Started · Security overview · Authentication options in SAP BusinessObjects Enterprise · Server Administration 1.1.3.2 Configuring your deployment If you have just completed your installation of SAP BusinessObjects Enterprise and need to perform initial configuration tasks, such as firewall configuration and user management, it is recommended that you read the following sections. Related Topics · Server Administration · Communication between SAP BusinessObjects Enterprise components · Security overview · About Monitoring 1.1.3.3 Improving your system's performance If you want to assess your deployment's efficiency and fine-tune it in order to maximize resources, it is recommended that you read the following sections: · If you want to monitor your existing system, read "Monitoring". For daily maintenance tasks and procedures for working with servers in the CMC, see "Server Maintenance". Related Topics · About Monitoring · Server Administration 1.

1.3.4 Working with objects in the CMC If you are working with objects in the CMC, read the following sections: 22 2010-11-24 Getting Started · · For information about setting up users and groups in the CMC, see "Account Management Overview". To set security on objects, see "How rights work in SAP BusinessObjects Enterprise". For general information about working with objects, see SAP BusinessObjects Enterprise User's Guide.

Related Topics · Account management overview · How rights work in SAP BusinessObjects Enterprise 1.2 About this help This help provides you with information and procedures for deploying and configuring your SAP BusinessObjects Enterprise system. Procedures are provided for common tasks. Conceptual information and technical details are provided for all advanced topics. For information about installing this product, see the SAP BusinessObjects Enterprise Installation Guide.

1.2.1 Who should use this help? This help covers deployment and configuration tasks. We recommend consulting this guide if you are: · · · · planning your first deployment configuring your first deployment making significant changes to the architecture of an existing deployment improving your system's performance.

This help is intended for system administrators who are responsible for configuring, managing, and maintaining an SAP BusinessObjects Enterprise installation. Familiarity with your operating system and your network environment is beneficial, as is a general understanding of web application server management and scripting technologies. However, to assist all levels of administrative experience, this help aims to provide sufficient background and conceptual information to clarify all administrative tasks and features. 1.2.2 About SAP BusinessObjects Enterprise 23 2010-11-24 Getting Started SAP

BusinessObjects Enterprise is a flexible, scalable, and reliable solution for delivering powerful, interactive reports to end users via any web application--intranet, extranet, Internet or corporate portal.

Whether it is used for distributing weekly sales reports, providing customers with personalized service offerings, or integrating critical information into corporate portals, SAP BusinessObjects Enterprise delivers tangible benefits that extend across and beyond the organization. As an integrated suite for reporting, analysis, and information delivery, SAP BusinessObjects Enterprise provides a solution for increasing end-user productivity and reducing administrative efforts. 1.2.3 Variables The following variables are used throughout this guide. Variable Description <INSTALLDIR> The directory where

SAP BusinessObjects Enterprise is installed. On a Windows machine, the default directory is C:\Program Files (x86)\SAP BusinessObjects\ <PLAT FORM64DIR> The name of your UNIX operating system. Acceptable values are: · aix_rs6000_64 · linux_x64 · solaris_sparcv9 · hpux_ia64 The directory where scripts for administering SAP BusinessObjects Enterprise are located. On a Windows machine, the directory is <INSTALLDIR>\win64_x64\scripts.

On Unix machines, the directory is <INSTALLDIR>/<PLAT FORM64DIR>/scripts. <SCRIPTDIR> 24 2010-11-24 Architecture Architecture 2.1 Architecture overview This section outlines the overall platform architecture, system, and service components that make up the SAP BusinessObjects Enterprise Business Intelligence (BI) platform. The information helps administrators understand the system essentials and help to form a plan for the system deployment, management, and maintenance. SAP BusinessObjects Enterprise is designed for high performance across a broad spectrum of user and deployment scenarios.

For example, specialized platform services handle either on-demand data access and report generation, or report scheduling based on times and events. You can offload processor intensive scheduling and processing by creating dedicated servers to host specific services. The architecture is designed to meet the needs of virtually any BI deployment, and is flexible enough to grow from several users with a single tool, to tens of thousands of users with multiple tools and interfaces. Developers can integrate SAP BusinessObjects Enterprise BI into your organization's other technology systems by using web services, Java, or .NET application programming interfaces (APIs).

End users can access, create, edit, and interact with reports using specialized tools and applications that include: · Clients installed by SAP BusinessObjects Enterprise Client Tools installation program: · Interactive Analysis (formerly Web Intelligence) · Business View Manager · Report Conversion Tool · Universe design tool · Web Service query tool (formerly Query as a Web Service) · Information design tool (formerly Information Designer) · Translation Management Tool (formerly Translation Manager) · Widgets for SAP BusinessObjects Enterprise (formerly BI Widgets) · Clients available separately: · SAP Crystal Reports · SAP BusinessObjects Dashboard Design (formerly Xcelsius) · SAP BusinessObjects Advanced Analysis (formerly Voyager) · BI Workspaces (formerly Dashboard Builder) IT departments can use data and system management tools that include: · Report Viewers 25 2010-11-24 Architecture · · · · ·

Central Management Console (CMC) Central Configuration Manager (CCM) Repository Diagnostic Tool (RDT) Data Federation Administration Tool Upgrade management tool (formerly Import Wizard) Universe design tool (formerly Universe Designer) SAP BusinessObjects Mobile To provide flexibility, reliability, and scalability, SAP BusinessObjects Enterprise components can be installed on one or across many machines.



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You can even install two different versions of SAP BusinessObjects Enterprise simultaneously on the same computer, although this configuration is only recommended as part of the upgrade process or testing purposes. Server processes can be "vertically scaled" (where one computer runs several, or all, server-side processes) to reduce cost, or "horizontally scaled" (where server processes are distributed between two or more networked machines) to improve performance. It is also possible to run multiple, redundant, versions of the same server process on more than one machine, so that processing can continue if the primary process encounters a problem. Note: While it is possible to use a mixture of Windows and Unix or Linux platforms, it is recommended that you do not mix operating systems for Central Management Server (CMS) processes. 2.1.1 System overview SAP BusinessObjects Enterprise is a Business Intelligence (BI) platform that provides enterprise level analysis and reporting tools. Data can be analyzed from any of a large number of supported database systems (including text or multi-dimensional OLAP systems) and BI reports can be published in many different formats to many different publishing systems. The following diagram illustrates how SAP BusinessObjects Enterprise fits in with your organization's infrastructure.

26 2010-11-24 Architecture SAP BusinessObjects Enterprise reports from a read-only connection to your organization's databases, and uses its own databases for storing its configuration, auditing, and other operational information. The BI reports created by the system can be sent to a variety of destinations, including file systems, and email, or accessed through web sites or portals. SAP BusinessObjects Enterprise is a self-contained system that can exist on a single machine (for example, as a small development or pre-production test environment) or can be scaled up into a cluster of many machines that run different components (for example, as a large-scale production environment). 2.1.2 Databases SAP BusinessObjects Enterprise uses several different databases. · Reporting database This refers to your organization's information. It is the source information analyzed and reported on by SAP BusinessObjects Enterprise. Most commonly, the information is stored within a relational database, but it can also be contained within text files, Microsoft Office documents, or OLAP systems. · CMS system database The CMS system database is used to store SAP BusinessObjects Enterprise information, such as user, server, folder, document, configuration, authorization, and authentication details.

It is maintained by the Central Management Server (CMS), and is sometimes referred to as the system repository. · Auditing Data Store 27 2010-11-24 Architecture The Auditing Data Store (ADS) is used to store information on trackable events that occur in SAP BusinessObjects Enterprise. This information can be used to monitor the usage of system components, user activity, or other aspects of day-to-day operation. · Lifecycle Management database The Lifecycle Management database tracks configuration and version information related to an SAP BusinessObjects Enterprise installation, as well as updates. · Monitoring database Monitoring uses the Java Derby database to store system configuration and component information for SAP supportability.

If you do not have a database server in place for use with the CMS system and Auditing Data Store databases, the SAP BusinessObjects Enterprise installation program can install and configure one for you. It is recommended that you evaluate your requirements against information from your database server vendor to determine which supported database would best suit your organization's requirements. 2.1.3 Servers SAP BusinessObjects Enterprise consists of collections of servers running on one or more hosts.

Small installations (such as test or development systems) can use a single host for a web application server, database server, and all SAP BusinessObjects Enterprise servers. Medium and large installations can have servers running on multiple hosts. For example, a web application server host can be used in combination with an SAP BusinessObjects Enterprise server host. This frees up resources on the SAP BusinessObjects Enterprise server host, allowing it to process more information than if it also hosted the web application server. Large installations can have several SAP BusinessObjects Enterprise server hosts working together in a cluster. For example, if an organization has a large number of SAP Crystal Reports users, Crystal Reports processing servers can be created on multiple SAP BusinessObjects Enterprise server hosts to ensure that there are plenty of resources available to process requests from clients. The advantages of having multiple servers include: · Improved performance Multiple SAP BusinessObjects Enterprise server hosts can process a queue of reporting information faster than a single SAP BusinessObjects Enterprise server host. · Load balancing If a server is experiencing a higher load than the other servers in a cluster, the CMS automatically sends new work to a server with better resources. · Improved availability If a server encounters an unexpected condition, the CMS automatically re-routes work to different servers until the condition is corrected. 28 2010-11-24 Architecture 2.

1.4 Web application servers A web application server acts as the translation layer between a web browser or rich application, and SAP BusinessObjects Enterprise. Web application servers running on Windows, Unix, and Linux are supported. The following web application servers are supported: · JBoss · Oracle Application Server · Sun Java System Application Server (Unix only) · SAP NetWeaver AS Java · Tomcat · WebLogic · WebSphere For a detailed list of supported web application servers, consult the Supported Platforms Guide available at: <http://service.sap.com/bosap-support>. If you do not have a web application server in place for use with SAP BusinessObjects Enterprise, the installation program can install and configure a Tomcat 6 web application server for you. It is recommended that you evaluate your requirements against information from your web application server vendor to determine which supported web application server would best suit your organization's requirements. Note: When configuring a production environment, it is recommended that the web application server is hosted on a separate system. Running SAP BusinessObjects Enterprise and a web application server on the same host in a production environment may decrease performance.

2.1.4.1 Web Application Container Service (WACS) A web application server is required to host SAP BusinessObjects Enterprise web applications. If you are an advanced Java web application server administrator with advanced administration needs, use a supported Java web application server to host SAP BusinessObjects Enterprise web applications.



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If you are using a supported Windows operating system to host SAP BusinessObjects Enterprise, and prefer a simple web application server installation process, or you do not have the resources to administer a Java web application server, you can install the Web Application Container Service (WACS) when installing SAP BusinessObjects Enterprise. 29 2010-11-24 Architecture WACS is an SAP BusinessObjects Enterprise server that allows SAP BusinessObjects Enterprise web applications, such as the Central Management Console (CMC), BI launch pad, and Web Services, to run without the need for a previously installed Java web application server. Using WACS provides a number of advantages: · WACS requires a minimum effort to install, maintain, and configure. It is installed and configured by the SAP BusinessObjects Enterprise installation program, and no additional steps are required to start using it. ·

WACS removes the need for Java application server administration and maintenance skills.

· WACS provides an administrative interface that is consistent with other SAP BusinessObjects Enterprise servers. · Like other SAP BusinessObjects Enterprise servers, WACS can be installed on a dedicated host. Note: There are some limitations to using WACS instead of a dedicated Java web applications server: · WACS is only available on supported Windows operating systems. · Custom web applications cannot be deployed to WACS, as it only supports the web applications installed with SAP BusinessObjects Enterprise. · WACS cannot be used with an Apache load balancer. It is possible to use a dedicated web application server in addition to WACS. This allows your dedicated web application server to host custom web applications, while the CMC and other SAP BusinessObjects Enterprise web applications are hosted by WACS. 2.1.5 Software Development Kits A Software Development Kit (SDK) allows a developer to incorporate aspects of SAP BusinessObjects Enterprise into an organization's own applications and systems.

SAP BusinessObjects Enterprise has SDKs for software development on Java and .NET platforms. Note: SAP BusinessObjects Enterprise .NET SDKs are not installed by default, and must be downloaded from the SAP Service Marketplace. The following SDKs are supported by SAP BusinessObjects Enterprise: ·

SAP BusinessObjects Enterprise Java SDK and .NET SDK The SAP BusinessObjects Enterprise SDKs allow application to perform tasks such as authentication, session management, working with repository objects, report scheduling and publication, and server management. Note: For full access to security, server management, and auditing functions, use the Java SDK. · Report Application Server Java SDK and .NET SDK 30 2010-11-24 Architecture The Report Application Server SDKs allow applications to open, create, and modify existing Crystal reports, including setting parameter values, changing data sources, and exporting to other formats, including XML, PDF, Microsoft Word, and Microsoft Excel. · Report Engine Java SDK and .

NET SDK The Report Engine SDKs allow applications to interact with reports created with SAP BusinessObjects Interactive Analysis (formerly Web Intelligence). The Report Engine SDKs include libraries that you can use to build a web report design tool. Applications built with these SDKs can view, create, or modify, a variety of different SAP BusinessObjects Interactive Analysis documents. Users can modify documents by adding, removing, and modifying objects such as tables, charts, conditions, and filters. · Platform Search SDK: The Platform Search SDK is the interface between the client application and the Platform Search Service.

Platform Search supports Public SDK that comes as a part of the Platform Search SDK. When a search request parameter is sent through the client application to the SDK layer, the SDK layer converts the request parameter into XML- encoded format and passes it to the Platform Search Service. · Crystal Reports Viewers Java SDK and .NET SDK The Viewers SDKs allow applications to display and export Crystal reports. The following viewers are available: ·

DHTML Report Page Viewer: presents data and allows drill-down, page navigation, zooming, prompting, search, highlighting, exporting, and printing.

· Report Parts Viewer: provides the ability to view individual parts of a report, including charts, text, and fields. · Viewer Tag Library: allows for the behavior of the viewer to be customized in JSP pages. · SAP BusinessObjects Enterprise Java Consumer SDK and .NET Consumer SDK An implementation of Web Services that allows you to handle user authentication and security, document and report access, scheduling, publications, and server management. Note: The

SAP BusinessObjects Enterprise JavaServer Faces Components are deprecated. The SDKs can be used in combination to provide a wide range of BI functionality to your applications. For example, the BI launch pad web application included with SAP BusinessObjects Enterprise was built using these SDKs. For more information on SAP BusinessObjects Enterprise SDKs, see the SAP BusinessObjects Enterprise SDK Developer's Guide, the SAP BusinessObjects Enterprise Report Application Server Developer's Guide, and the Report Viewers Developer's Guide available at: <http://service.sap.com/bosap-support>.

2.1.5.1 Web Services Java and .NET Consumer SDKs 31 2010-11-24 Architecture The SAP BusinessObjects Enterprise Web Services Java and .NET Consumer SDKs allow you to create distributed Web Services applications that take advantage of the SAP BusinessObjects Enterprise platform features. Web Services consists of software components that can be called remotely using the Simple Object Access Protocol (SOAP). SOAP is a protocol for exchanging information that is not dependent on a specific platform, object model, or programming language. SAP BusinessObjects Enterprise Web Services includes functionality in the following areas: · Session Authentication and user management. · BI platform Exposes advanced platform features such as scheduling, publishing, search, user and group administration, and server administration services.

· Report Engine Displays SAP BusinessObjects Business Intelligence Solution and Crystal Reports in HTML, PDF, Excel, and XML format. · Query Builds ad-hoc queries based on the Universe semantic layer. SAP BusinessObjects Enterprise Web Services uses standards such as XML, SOAP, AXIS 2.0 and WSDL. The platform follows WS-Interoperability Basic Profile 1.

0 web services specification. Note: Web Services applications are currently only supported with the following load balancer configurations: 1. Source IP address persistence. 2. Source IP and destination port persistence (available only on a Cisco Content Services Switch).

3. SSL persistence. Note: SSL persistence may cause security and reliability issues on some web browsers.



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Check with your network administrator to determine if SSL persistence is appropriate for your organization. 2.1.5.2 Web Services query tool Web service query tool is a wizard-based application that allows queries to be made into a web service and integrated with web-ready applications. Queries can be saved to create a catalog of standard queries that application builders can select as required. 32 2010-11-24 Architecture Business Intelligence (BI) content is usually bound to a specific user interface of BI tools.

Web service query tool changes this by allowing BI content to be delivered to any user interface that can process web services. Web service query tool is designed to work on top of any Microsoft Windows application the same way as other web services. Query as a Web Service is based on the W3C web service specifications SOAP, WSDL, and XML. It has two main components: · Server component The server component (included in SAP BusinessObjects Enterprise) stores the Web service query tool catalog and hosts the published web services. · Client tool This is how business users create and publish their queries as a web service on the server. You can install the client tool on several machines that can access and share the same Web service query tool catalog stored on the server. The client tool communicates with the server components via web services. Web service query tool allows web queries to be used as part of a range of client-side solutions, including: · Microsoft Office, Excel, and InfoPath · SAP NetWeaver · OpenOffice · Business rules and process management applications · Enterprise Service Bus platforms 2.1.6 Data sources 2.

1.6.1 Universes The universe abstracts the data complexity by using business language rather than data language to access, manipulate, and organize data. This business language is stored as objects in a universe file. Interactive Analysis and Crystal Reports use universes to simplify the user creation process required for simple to complex end-user query and analysis.

Universes are a core component of SAP BusinessObjects Enterprise. All universe objects and connections are stored and secured in the central repository by the Connection Server. Universe design tools need to log into SAP BusinessObjects Enterprise to access the system and create universes. Universe access and row-level security can also be managed at the group or individual user level from within the design environment. 33 2010-11-24 Architecture The semantic layer allows SAP BusinessObjects Interactive Analysis to deliver documents, by utilizing multiple synchronized data providers, including online analytical processing (OLAP) and common warehousing metamodel (CWM) data sources.

2.1.6.2 Business Views Business Views simplify report creation and interaction by abstracting the complexity of data for report developers. Business Views help separate the data connections, data access, business elements, and access control. Business Views can only be used by Crystal Reports and are designed to simplify the data access and view-time security required for Crystal report creation. Business Views support the combination of multiple data sources in a single view. Business Views are fully supported in SAP BusinessObjects Enterprise. SAP BusinessObjects Enterprise includes a series of dedicated, pre-configured platform management services for tasks such as password management, server metrics, and user access control for decentralized management functions. 2.

1.7 Language support SAP BusinessObjects Enterprise products are translated into many different languages and supports data in an even broader selection of languages. Product interfaces are available in the following languages: · Czech · Simplified Chinese · Traditional Chinese · Danish · Dutch · English · Finnish · French · German · Italian · Japanese · Korean · Norwegian Bokmal · Polish · Portuguese 34 2010-11-24 Architecture · · · · Russian Spanish Swedish Thai In addition to supporting data in any of the languages available in the interface, the following character sets are also supported: · Greek · Malaysian · Hebrew · Arabic · Romanian · Vietnamese · Hungarian · Turkish · Hindi 2.1.8 Authentication and single sign-on System security is managed by the Central Management Server (CMS), security plug-ins, and third-party authentication tools, such as SiteMinder or Kerberos. These components authenticate users and authorize user access for SAP BusinessObjects Enterprise, its folders, and other objects. The following user authentication single sign-on security plug-ins are available: · Enterprise (default), including Trusted Authentication support for third-party authentication. · LDAP · Windows Active Directory (AD) When using an Enterprise Resource Planning (ERP) system, single sign-on is used to authenticate user access to the ERP system so that reports can be against ERP data. The following user authentication single sign-on for ERP systems are supported: · SAP ERP and Business Warehouse (BW) · Oracle E-Business Suite (EBS) · Siebel Enterprise · JD Edwards Enterprise One · PeopleSoft Enterprise 2.1.

8.1 Security plug-ins 35 2010-11-24 Architecture Security plug-ins automate account creation and management by allowing you to map user accounts and groups from third-party systems into SAP BusinessObjects Enterprise. You can map third-party user accounts or groups to existing Enterprise user accounts or groups, or you can create new Enterprise user accounts or groups that correspond to each mapped entry in the external system. The security plug-ins dynamically maintain third-party user and group listings. So, once you map a Lightweight Directory Access Protocol (LDAP) or Windows Active Directory (AD) group to SAP BusinessObjects Enterprise, all users who belong to that group can log into SAP BusinessObjects Enterprise.

Subsequent changes to the third-party group memberships are automatically propagated. SAP BusinessObjects Enterprise supports the following security plug-ins: · Enterprise security plug-in The Central Management Server (CMS) handles security information, such as user accounts, group memberships, and object rights that define user and group privileges. This is known as Enterprise authentication. Enterprise authentication is always enabled; it cannot be disabled. Use the system default Enterprise Authentication if you prefer to create distinct accounts and groups for use with SAP BusinessObjects Enterprise, or if you have not already set up a hierarchy of users and groups on an LDAP or Windows AD server.

Trusted Authentication is a component of Enterprise authentication that integrates with third-party single sign-on solutions, including Java Authentication and Authorization Service (JAAS).



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Applications that have established trust with the Central Management Server can use Trusted Authentication to allow users to log on without providing their passwords. · · LDAP security plug-in Windows AD Note: Although a user can configure Windows AD authentication for SAP BusinessObjects Enterprise and custom applications through the CMC, the CMC and BI launch pad do not support Windows AD authentication with NTLM. The only methods of authentication that the CMC and BI launch pad support are Windows AD with Kerberos, LDAP, Enterprise, and Trusted Authentication. 2.1.8.2 Enterprise Resource Planning (ERP) integration An Enterprise Resource Planning (ERP) application supports the essential functions of an organization's processes by collecting real-time information related to day-to-day operations. SAP BusinessObjects Enterprise supports single sign-on and reporting from the following ERP systems: · SAP ERP and Business Warehouse (BW) Note: SAP GUI must be installed before using OLAP Data Access (ODA), SAP BusinessObjects Advanced Analysis (formerly Voyager), or BW connections. 36 2010-11-24 Architecture · · · Siebel Enterprise Oracle E-Business Suite JD Edwards EnterpriseOne PeopleSoft Enterprise Note: · · SAP ERP and BW support is installed by default.

Use the Custom / Expand installation option to deselect SAP integration support if you do not want support for SAP ERP or BW. Support for Siebel Enterprise, Oracle E-Business Suite, JD Edwards EnterpriseOne, or PeopleSoft is not installed by default. Use the "Custom / Expand" installation option to select and install integration for non-SAP ERP systems. For detailed information on the specific versions supported by SAP BusinessObjects Enterprise, consult the Supported Platforms Guide, available at service.sap.com/bosap-support. To configure ERP integration, see the SAP BusinessObjects Enterprise Administrator Guide. 2.1.9 SAP integration SAP BusinessObjects Enterprise integrates with your existing SAP infrastructure with the following SAP tools: · SAP System Landscape Directory (SLD) The system landscape directory of SAP NetWeaver is the central source of system landscape information relevant for the management of your software life-cycle.

By providing a directory comprising information about all installable software available from SAP and automatically updated data about systems already installed in a landscape, you get the foundation for tool support to plan software life-cycle tasks in your system landscape. The SAP BusinessObjects Enterprise installation program registers the vendor and product names and versions with the SLD, as well as server and front-end component names, versions, and location. · SAP Solution Manager The SAP Solution Manager is a platform that provides the integrated content, tools, and methodologies to implement, support, operate and monitor an organization's SAP and non-SAP solutions. Non-SAP software with an SAP-certified integration is entered into a central repository and transferred automatically to your SAP System Landscape Directories (SLD). SAP customers can then easily identify which version of third-party product integration has been certified by SAP within their SAP system environment.

This service provides additional awareness for third-party products besides our online catalogs for third-party products. SAP Solution Manager is available to SAP customers at no extra charge, and includes direct access to SAP support and SAP product upgrade path information. For more information on SLD, see 37 2010-11-24 Architecture "Registration of SAP BusinessObjects Enterprise in the System Landscape" in the SAP BusinessObjects Enterprise Administrator Guide. · CTS Transport (CTS+) The Change and Transport System (CTS) helps you to organize development projects in ABAP Workbench and in Customizing, and then transport the changes between the SAP systems in your system landscape. As well as ABAP objects, you can also transport Java objects (J2EE, JEE) and SAP-specific non-ABAP technologies (such as Web Dynpro Java or SAP NetWeaver Portal) in your landscape.

· Monitoring with CA Wily Introscope CA Wily Introscope is a web application management product that delivers the ability to monitor and diagnose performance problems that may occur within Java-based SAP modules in production, including visibility into custom Java applications and connections to back-end systems. It allows you to isolate performance bottlenecks in NetWeaver modules including individual Servlets, JSPs, EJBs, JCOs, Classes, Methods and more. It offers real-time, low-overhead monitoring, end-to-end transaction visibility, historical data for analysis or capacity planning, customizable dashboards, automated threshold alarms, and an open architecture to extend monitoring beyond NetWeaver environments. 2.1.10 Lifecycle management (LCM) Lifecycle management (LCM) refers to a set of processes involved in managing an installation's product information. It establishes procedures for governing the installation of SAP BusinessObjects Enterprise to development, test, production, or maintenance environments. SAP BusinessObjects Enterprise Lifecycle Manager is a web-based tool that enables you to move BI objects from one system to another system, without affecting the dependencies of those objects. It also enables you to manage different versions, manage dependencies, or roll back a promoted object to its previous state. The LCM tool is a plug-in for SAP BusinessObjects Enterprise.

You can promote a BI object from one system to another system only if the same version of the application is installed on both the source and destination systems. For more information, see the SAP BusinessObjects Enterprise Lifecycle management console User's Guide. 2.1.11 Integrated version control 38 2010-11-24 Architecture The files that make up SAP BusinessObjects Enterprise on a server system are now kept under version control. The installation program will install and configure the Subversion version control system, or you can enter details to use an existing Subversion or ClearCase version control system. A version control system makes it possible to keep and restore different revisions of configuration and other files, which means it is always possible to revert the system to a known state from any time in the past. 2.1.12 Permanent data The term "permanent data" refers to any piece of information considered important enough to be migrated during a system upgrade.

For example, the Central Management Server (CMS) stores configuration information in the CMS database rather than the Windows registry or a configuration file. All SAP BusinessObjects Enterprise products store permanent data in the CMS system database. This allows data and configuration information to be easily migrated to a new version when you upgrade.



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