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You can read the recommendations in the user guide, the technical guide or the installation guide for BUSINESS OBJECTS METADATA MANAGEMENT XI 3.1. You'll find the answers to all your questions on the BUSINESS OBJECTS METADATA MANAGEMENT XI 3.1 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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SAP BusinessObjects Metadata
Management User's Guide

SAP® BusinessObjects™ Metadata Management XI 3.1 (12.1.0)



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systems Databases Data Integration technologies, such as SAP BusinessObjects Data Services and SAP BusinessObjects Data Federator Modeling utilities. You can enrich the collected metadata with the following information, which you can use to search for objects and perform analysis on the resulting objects. · Annotations You can add user notes to any object. · Custom attributes You can define custom attributes to do tasks such as assign a data steward to objects and tag objects as containing sensitive information. · Metapedia terms and categories You can implement a business glossary of terms related to your business data and organize the terms hierarchically. You can export relational objects from the SAP BusinessObjects Metadata Management repository to a Common Warehouse Modeling (CWM) XML file. You can then import the CWM XML file into SAP BusinessObjects Enterprise to create a universe.

SAP BusinessObjects Metadata Management User's Guide 15 1 Introduction Product benefits Product benefits With SAP BusinessObjects Metadata Management, you can do the following: · · · · · View all metadata associated with your Business Intelligence systems, database sources, data integration systems, and modeling utilities. Analyze lineage to understand where the data came from and what sources provide data for your Business Intelligence reports. Analyze the impact of changing a source table, column, or report field on your Business Intelligence reports. Detect and analyze relationships (such as Is Same As, Is Related To) across metadata sources. Define standard business terms in a business glossary, relate business terms to objects, and search for metadata objects using familiar business terms. Analyze the metadata to determine usage of objects by other objects, such as how many reports are based on this universe or what tables are in this universe. · These capabilities provide the following benefits: · Lower your total cost of ownership (TCO) because you can do the following: · Track usage of data and reports For example, you can determine which data in your data warehouse is never used in your Business Intelligence reports or which reports are never viewed by users. · Manage change For example, you can determine which Business Intelligence reports would be affected if you modified your source tables and you can identify the users of the affected reports. · Determine the source of the data in your documents and reports. For example, you can determine the source of any number in any report.

· Determine what Business Intelligence information a user can access. For example, you can determine what privileges a user or user group has for accessing reports or data universes. 16 SAP BusinessObjects Metadata Management User's Guide Introduction Product documentation 1 · Enable the discovery, common understanding, and consistent implementation of business concepts through Metapedia, bridging the gap of understanding between an organization's business users and IT staff. Understand your entire Business Intelligence project because you can view the relationships (such as impact and lineage) of all metadata objects from your data integration system to your relational databases to your Business Intelligence reports. Product documentation Your product CD provides the SAP BusinessObjects Metadata Management documentation in PDF format.

You can read PDF files using the latest version of Adobe Acrobat Reader (download instructions at the Adobe website <http://www.adobe.com/products/acrobat/readstep2.html>). To view these documents after you install the software, go to the Start menu, select Programs > BusinessObjects XI 3.

1 > BusinessObjects Metadata Management, and choose: · Release Notes Opens the Release Notes PDF document, which includes supported configurations and known problems in the associated software release. User's Guide Opens this document, which describes the purpose, installation, configuration, and usage of the software. · Obtain other relevant documents by visiting the Technical Customer Assurance documentation page at <http://service.sap.com/>.



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SAP BusinessObjects information resources A global network of SAP BusinessObjects technology experts provides customer support, education, and consulting to ensure maximum business intelligence benefit to your business. Useful addresses at a glance: Address Content SAP BusinessObjects Metadata Management User's Guide 17 1 Introduction SAP BusinessObjects information resources Address Content Customer Support, Consulting, and Education Information about Technical Customer Assurance tion services programs, as well as links to technical articles, downloads, and online forums. Consulting services <http://service.sap.com/> can provide you with information about how SAP BusinessObjects can help maximize your business intelligence investment.

Education services can provide information about training options and modules. From traditional classroom learning to targeted e-learning seminars, SAP BusinessObjects can offer a training package to suit your learning needs and preferred learning style. SAP BusinessObjects Data Services Com- Get online and timely information about SAP BusinessObjects Data Services, including tips and tricks, additional downloads, samples, and much more. All content is to and from the community, so feel free to join in and contact us if you have a submission. Forums on SCN (SAP Community Network Search the SAP BusinessObjects forums on the SAP Community Network to learn from other SAP <https://www.sdn.sap.com/irj/scn/forums> BusinessObjects Data Services users and start posting questions or share your knowledge with the community. Blueprints Blueprints for you to download and modify to fit your needs. Each blueprint contains the necessary <http://www.sdn.sap.com/irj/boc/blueprints> SAP BusinessObjects Data Services project, jobs, data flows, file formats, sample data, template tables, and custom functions to run the data flows in your environment with only a few modifications. Product documentation SAP BusinessObjects product documentation.

<http://help.sap.com/businessobjects/> Products Availability Report Get information about supported platforms for SAP BusinessObjects Data Services. <https://service.sap.com/bosap-support> In the left panel of the window, navigate to Documentation > Supported Platforms > BusinessObjects XI 3.x. Click the BusinessObjects Data Services link in the main window. 18 SAP BusinessObjects Metadata Management User's Guide Architecture 2 2 Architecture Architecture overview SAP BusinessObjects Metadata Management runs on the SAP BusinessObjects Enterprise platform which is designed for high performance across a broad spectrum of user and deployment scenarios. You can offload processor intensive scheduling and processing to dedicated servers to improve performance. The architecture is designed to meet the needs of virtually any business intelligence (BI) deployment. This section describes how the components of SAP BusinessObjects Metadata Management fit into the overall platform architecture and individual services and components that make up SAP BusinessObjects Enterprise. This information will help administrators understand how to plan the deployment, management, and maintenance of the metadata management application.

Related Topics · · Architecture overview on page 20 Metadata Management on BusinessObjects Enterprise components on page 28 Architecture overview The following diagram shows the SAP BusinessObjects Enterprise (BOE) components that SAP BusinessObjects Metadata Management (BOMM) uses. 20 SAP BusinessObjects Metadata Management User's Guide Architecture Architecture overview 2 The following table shows each SAP BusinessObjects Metadata Management component and which BusinessObjects Enterprise component it runs on. SAP BusinessObjects Metadata Management component SAP BusinessObjects Enterprise component on which it runs Administration and Explorer applica- BusinessObjects Enterprise Platform tions Application Server Metadata Management CMS ResposCentral Management System (CMS) itory Objects · Metadata Integrators and utilities · Metadata Management Job Server (Adaptive Job Server) Adaptive Processing Server SAP BusinessObjects Metadata Management User's Guide 21 2 Architecture Architecture overview SAP BusinessObjects Metadata Management component Relationship Server Search Server SAP BusinessObjects Enterprise component on which it runs Adaptive Processing Server Adaptive Processing Server Related Topics · Web Application Server on page 23 · Central Management System repository objects for Metadata Management on page 22 · Metadata integrators on page 25 · Search Server on page 27 Central Management System repository objects for Metadata Management The Central Management System (CMS) stores information that describes the SAP BusinessObjects Metadata Management application and the operations of the servers that Metadata Management uses for processing. CMS uses these repository objects to manage SAP BusinessObjects Enterprise, including the following tasks for Metadata Management: · Managing security The CMS manages security information, such as user accounts, group memberships, and object rights that define user and group privileges to access the different features of Metadata Management. · Managing servers When you define multiple Job Servers to run metadata integrators, the CMS monitors these server and distributes the work processes among them. The CMS handles load balancing and automated clustering to avoid bottlenecks and maximize hardware efficiency. For more information about CMS, refer to the BusinessObjects Enterprise Administrator's Guide. 22 SAP BusinessObjects Metadata Management User's Guide Architecture Architecture overview 2 Related Topics · · Architecture overview on page 20 Managing security in Metadata Management on page 122 Web Application Server SAP BusinessObjects Metadata Management requires a Java or Servlet web application server to process the server-side scripts that make up web applications that: · perform administrative tasks on the Central Management Console (CMC). · comprise the Explorer through which you can view and analyze relationships such as impact and lineage. The supported web application servers include the following: · Apache Tomcat · WebSphere · WebLogic · Oracle Application Server Note: For specific version compatibility, refer to the Products Availability Report in the SAP BusinessObjects Support > Supported Platforms section of the SAP Service Marketplace: <http://service.sap.com/bosap-support>. Related Topics · · Administration on page 23 SAP BusinessObjects Metadata Management Explorer on page 24 Administration You use the Central Management Console (CMC) to perform SAP BusinessObjects Metadata Management administrative tasks such as the following: · · Configure and run metadata integrators Define source groups to subset the metadata when viewing relationships such as Same As, Impact, and Lineage SAP BusinessObjects Metadata Management User's Guide 23 2 Architecture Architecture overview · · Administer security for the SAP BusinessObjects Metadata Management Explorer, Metapedia, metadata integrators, and source groups Run SAP BusinessObjects Metadata Management utilities Related Topics · Metadata Management administration overview on page 118 SAP BusinessObjects Metadata Management Explorer The SAP BusinessObjects Metadata Management Explorer is a web-based interface through which you can: · · · · · View the metadata from the different sources in an organized and easy to understand way.



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Search for objects without the need to know the source or application in which it exists. Define Metapedia terms related to your business data and organize the terms into categories.

Add annotations to an object. Define custom attributes and values for an objects. Run pre-defined reports that answer typical business questions such as "Which Universe objects are not used in my reports?" or "Which reports are using my tables?" View relationships between objects, reports and documents that you create with BusinessObjects Business Intelligence products. Relationships include the following: · Same As - Allows you to determine if an object in one source is the same as an object in another source. · Related To - Allows you to determine if an object in one source is related to an object in another source.

View impact and lineage of objects within the same source or within different sources. · Impact analysis - Allows you to identify which objects will be affected if you change or remove other connected objects. · Lineage analysis - Allows you to trace back from a target object to the source object. Create user-defined relationships for objects. · · · 24 SAP BusinessObjects Metadata Management User's Guide Architecture Architecture overview 2 Related Topics · SAP BusinessObjects Metadata Management Explorer on page 195 Metadata integrators Metadata integrators are programs that do the following: · Collect metadata from source systems and store the collected metadata into the SAP BusinessObjects Metadata Management Repository. · Can be scheduled to run at regular intervals. · Update the existing metadata. · Can run on one job server or multiple job servers for load balancing and availability. · Each run as a separate process. SAP BusinessObjects Metadata Management provides the following metadata integrators: Metadata integrator name Metadata collected Collects metadata about objects such as universes, Crystal Reports, Web Intelligence documents, and Desktop Intelligence documents.

SAP BusinessObjects Enterprise Metadata Integrator Collects metadata about objects such as Queries, InfoProviders, InfoObjects, SAP NetWeaver Business Warehouse Transformations, and DataSources Metadata Integrator from an SAP NetWeaver Business Warehouse system. Common Warehouse Model (CWM) Metadata Integrator Collects metadata about objects such as catalogs, schemas, and tables from the CWM Relational Package. Collects metadata about objects such as SAP BusinessObjects Data Federator as projects, catalogs, datasources, and Metadata Integrator mapping rules from a Data Federator repository. SAP BusinessObjects Metadata Management User's Guide 25 2 Architecture Architecture overview Metadata integrator name Metadata collected Collects metadata about objects such as source tables, target tables, and column mappings from a Data Services repository. Collects metadata from other thirdparty sources such as the following: · Data Modeling metadata such as Sybase Power Designer, Embarcadero ER/Studio, and Oracle Designer · Extract, Transform, and Load (ETL) metadata such as Oracle Warehouse Builder, SAS ETL Studio, and Microsoft SQL Server Integration Services (SSIS) · OLAP and BI metadata such as IBM DB2 Cube Views, Oracle OLAP, and Cognos BI Reporting SAP BusinessObjects Data Services Metadata Integrator Meta Integration Metadata Bridge (MIMB) Metadata Integrator (also known as MITI Integrator) Collects metadata from relational database management systems (RDBMS) which can be DB2, MySQL, Oracle, SQL Server, Java Database Relational databases Metadata IntegraConnectivity (JDBC), or a BusinessObtorjects Universe connection. Collected metadata includes the definition of objects such as tables, view, synonyms, and aliases. You can also obtain third-party metadata integrators for other data sources. For more information about third-party metadata integrators, contact your sales representative. Related Topics · · · · SAP BusinessObjects Enterprise metadata objects on page 273 Exploring Data Modeling metadata on page 336 Data Federator objects on page 371 BusinessObjects Data Services objects on page 348 26 SAP BusinessObjects Metadata Management User's Guide Architecture Architecture overview 2 · · · <http://www.metaintegration.net/Products/MIMB/SupportedTools.html> Exploring Relational Database metadata on page 394 Deployment scenarios on page 36 Relationship Server The Relationship Server computes metadata object relationships (such as data lineage and change impact analysis). The SAP BusinessObjects Metadata Management Explorer uses the results of these computed relationships to display metadata relationship diagrams. It is recommended that you install the Relationship Server on a different computer than the web application server. An Adaptive Processing Server of SAP BusinessObjects Enterprise must already be installed on that computer.

You can deploy multiple Relationship Servers for load balancing and availability. Related Topics · · Architecture overview on page 20 Deployment scenarios on page 36 Search Server The Search Server allows you to find an object that exists in any source while viewing metadata on the SAP BusinessObjects Metadata Management Explorer. It uses the Lucene Search Engine. The Search Server runs on an Adaptive Processing Server of SAP BusinessObjects Enterprise. You can deploy multiple search servers for load balancing and availability.

The Search Server constructs the search index during the execution of the Metadata Integrators, and the File Repository Server stores the compressed search index. The Search Server also updates the search index for changes to Metapedia terms and categories, custom attributes, and annotations. If the Search Server is not available during the construction and update processes, the search might return incorrect results. For these situations, SAP BusinessObjects Metadata Management User's Guide 27 2 Architecture Metadata Management on BusinessObjects Enterprise components Metadata Management provides a utility to reconstruct the search index. For details, see Recreating search indexes on page 185. Related Topics · · "Metadata Management Architecture" Deployment scenarios on page 36 Metadata Management on BusinessObjects Enterprise components The following table describes how SAP BusinessObjects Metadata Management uses each pertinent SAP BusinessObjects Enterprise component. SAP BusinessObjects How SAP BusinessObjects Metadata ManageEnterprise component ment uses component SAP BusinessObjects Enterprise Application Server Deploys the SAP BusinessObjects Metadata Management application which consists of: · Metadata Management on CMC · Metadata Management Explorer Manages the following for SAP BusinessObjects Metadata Management: · Metadata Management servers · Metadata integrator source configurations · Source group configurations · Metadata Management utilities · Security (authentication and authorization) Central Management Console (CMC) 28 SAP BusinessObjects Metadata Management User's Guide Architecture Metadata Management on BusinessObjects Enterprise components 2 SAP BusinessObjects How SAP BusinessObjects Metadata ManageEnterprise component ment uses component Responsible for maintaining a database of information about your SAP BusinessObjects Enterprise system.

Enterprise system.

Enterprise system.



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The data stored by the CMS includes information about users and groups, security levels, SAP BusinessObjects Enterprise content, and servers. For more information about the CMS, see SAP BusinessObjects Enterprise Administrator's Guide. Central Management Server (CMS) When you create a configuration for a metadata integrator source, SAP BusinessObjects Metadata Management stores the configuration in CMS.

Launches the scheduled execution of a metadata integrator or a Metadata Management utility. Metadata Management Job Server When you install SAP BusinessObjects Metadata Management on an Adaptive Job Server, you also install metadata integrator types for sources installed in CMS. Runs the following for SAP BusinessObjects Metadata Management: · Relationship Service · Search Service · Test Connection Service for integrator sources Stores files associated with the execution of a metadata integrator or a search. These files include the metadata integrator definitions, history logs, and search indexes. Adaptive Processing Server File Repository Server SAP BusinessObjects Metadata Management User's Guide 29 2 Architecture Metadata Management on BusinessObjects Enterprise components 30 SAP BusinessObjects Metadata Management User's Guide Deployment 3 3 Deployment Deployment Deployment To provide flexibility, reliability, and scalability, you can install the components that make up SAP BusinessObjects Enterprise on one or many machines. You can also install the components of SAP BusinessObjects Metadata Management on one or many machines to take advantage of the same benefits. 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. You can also run duplicate instances of a server process on the same machine, or across several networked machines. For example with Metadata Management, you can install multiple Adaptive Job Servers to run Metadata Integrators on separate computers to distribute the workload and improve performance. You can also install the Search Server on an Adaptive Processing Server on a different computer from the Adaptive Job Servers.

For sample deployments, see Deployment scenarios on page 36. Related Topics · · · Planning your Metadata Management deployment on page 32 Deployment guidelines on page 33 Deployment scenarios on page 36 Planning your Metadata Management deployment This section provides guidelines for assessing your organization's needs and suggestions for deployment scenarios. By evaluating your needs before you deploy your SAP BusinessObjects Metadata Management system, you can keep troubleshooting to a minimum. The section includes examples and suggestions for deployment, but it is important to note that each deployment is unique. The flexibility of the SAP BusinessObjects Enterprise service-based architecture allows you to tailor the deployment to serve your organization's requirements as precisely as possible.

32 SAP BusinessObjects Metadata Management User's Guide Deployment Deployment 3 Planning your deployment involves the following steps: 1. Refer to the Products Availability Report in the SAP BusinessObjects Support > Supported Platforms section of the SAP Service Marketplace: <http://service.sap.com/bosap-support>. 2.

Review the key concepts you need to consider for your deployment, including operating system, database, and application server considerations, in addition to security, performance and scalability, and high availability. See "Assessing your organization's environment" in the SAP BusinessObjects Enterprise XI 3.0 Deployment Planning Guide. 3. Choose an initial deployment architecture. Which deployment architecture will serve your needs within the limits of your resources? For suggestions and common configurations, see Deployment scenarios on page 36. Deployment guidelines Guidelines to deploy SAP BusinessObjects Metadata Management components include the following: · The Metadata Management Web applications should be on a separate computer than the Metadata Integrators. · The Metadata Management repository should be on a separate computer from the Metadata Management Web applications, Adaptive Processing Server, and Adaptive Job Servers to obtain a higher throughput. · To improve database throughput, the Metadata Management repository should be near the job server that processes the largest amount of data. Therefore, you can install the repository on the same computer as the Metadata Integrator that processes the largest amount of data.

· The Relationship Server should be on a separate computer than the web application server to obtain higher throughput. · The Relationship Server can be combined with any Metadata Integrator (Job Server), or it can be on its own computer. The rationale for this combination is that Metadata Integrators usually run at night or other non-business hours, and the Relationship Server runs during normal business hours when users are viewing relationships (such as impact and lineage) on the Metadata Management Explorer. · The Search Server can be combined with any Job Server or other server, or it can be on its own computer. The rationale for this combination is that Metadata Integrators usually run at night or other non-business hours, SAP BusinessObjects Metadata Management User's Guide 33 3 Deployment Deployment · · and the Search Server runs during normal business hours when users are searching on the Metadata Management Explorer. If your Metadata Integrators runs are constrained by a small execution window, deploy each Metadata Integrator on a separate computer. For high availability, you can deploy a Metadata Integrator on multiple computers. For more details, see the SAP BusinessObjects Enterprise XI 3.0 Deployment Planning Guide. Prerequisites for each component To deploy a subset of SAP BusinessObjects Metadata Management components on each computer, you must have the necessary software already installed on that computer.

The following table shows the prerequisite software for each component. Feature category Metadata Management CMS Repository Objects Note: You must install this component first (to build the Metadata Management repository). Then you can install the rest of the Metadata Management components in any order on any computer. Prerequisite software The CMS component of SAP BusinessObjects Enterprise XI 3.0.

1 and above 34 SAP BusinessObjects Metadata Management User's Guide Deployment Deployment 3 Feature category Prerequisite software · Metadata Management CMS Repository Objects component must already be installed (not necessarily on this computer) Following components of SAP BusinessObjects Enterprise XI 3.



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0.1 and above: · · · Adaptive Job Server Adaptive Processing Server · · Metadata Integrators Note: You must install this component on a supported Windows platform. Client libraries for the source system installed on this computer. For example, the SAP BusinessObjects Enterprise Metadata Integrator requires SAP BusinessObjects Enterprise Full Client installed on this computer.

For the BusinessObjects Enterprise Metadata Integrator to collect Crystal Reports or universes whose sources are SAP NetWeaver BW objects, you must install the BusinessObjects XI Integration for SAP Solutions on SAP BusinessObjects Enterprise (BOE). This requirement is for reports that were created with the Refresh on Open option because when the Metadata Integrator collects the metadata from the BOE system, the BOE system will connect to the source BW system to refresh the data automatically. · The BusinessObjects Enterprise Metadata Integrator supports two drivers: SAP BW MDX Query and SAP Operational Data Store. The BusinessObjects XI Integration for SAP Solutions has prerequisites that you must install. For more information, see the BusinessObjects XI Integration for SAP Installation Guide. · Installing this Metadata Integrator installs the Metadata Management Job Server (MMJobServer). Metadata Management Relationship · Server Note: You must install this component on a · supported Windows platform. Metadata Management CMS Repository Objects component must already be installed (not necessarily on this computer) Adaptive Processing Server component of SAP BusinessObjects Enterprise XI 3.0.1 and above SAP BusinessObjects Metadata Management User's Guide 35 3 Deployment Deployment Feature category Metadata Management Search Server Prerequisite software · Metadata Management CMS Repository Objects component must already be installed (not necessarily on this computer) Adaptive Processing Server component of SAP BusinessObjects Enterprise XI 3.

0.1 and above Metadata Management CMS Repository Objects component must already be installed (not necessarily on this computer) Web Application Server where SAP BusinessObjects Enterprise applications are deployed Note: You must install this component on a · supported Windows platform. · · Web Application Note: If you are manually installing the Web Application, you you must copy a .war file. Related Topics · To manually deploy web application server components on page 62 Deployment scenarios After you determine the needs of your users and the resources required for the deployment, you can develop an initial deployment plan for SAP BusinessObjects Metadata Management. This section describes sample scenarios for administrators planning an installation of Metadata Management. It is important to note that the optimal configuration for your deployment will depend on many factors: hardware configuration, database software, reporting requirements, operating system, clock speed, hyperthreading, disk speed, application server configuration, load frequency, and many more. Every deployment is unique, and these examples are provided only as guidelines. 36 SAP BusinessObjects Metadata Management User's Guide Deployment Deployment 3 Scenario 1: Performance in small execution window This scenario illustrates a situation in which your Metadata Integrators run might take several hours to complete, and you want to ensure it has enough resources to complete as fast as possible. The following diagram shows how the components of SAP BusinessObjects Enterprise (BOE) and SAP BusinessObjects Metadata Management (BOMM) are deployed on seven computers.

The diagram shows: · 1 back-end server to host CMS framework servers (SJ-CMS-01). · 1 processing server to host the Metadata Management Search Server (SJ-PS-01). · 4 processing servers to host the Metadata Integrators. The assumptions are that: SAP BusinessObjects Metadata Management User's Guide 37 3 Deployment Deployment · · · The CWM Integrator is run very infrequently. Therefore, the CWM Metadata Metadata Integrator and RDBMS Metadata Integrator can be installed on the same computer (SJ-PS-02).

The Relationship Server is run during the day and can be installed on a computer with any Metadata Integrator, which is usually run at night. The The SAP NetWeaver BW Metadata Integrator (BW Integrator) is run frequently and processes a large amount of metadata. Therefore, it is installed on its own computer with the Relationship Server (SJ-PS-03). The Data Services Metadata Integrator (DS Integrator) is run frequently and processes a large amount of metadata. Therefore, it is installed on its own computer (SJ-PS-04).

The BusinessObjects Enterprise Metadata Integrator (BOE Integrator) is run frequently and processes a large amount of metadata. Therefore, it is installed on its own computer (SJ-PS-05). · · 1 web application server (SJ-WS-01) to host CMC applications, including the Metadata Management application. 1 back-end database server for the Metadata Management repository (SJ-DB-01). Scenario 2: Performance and small number of computers This scenario illustrates a situation in which your Metadata Integrators run might take several hours to complete, but you have a limited number of computers. The following diagram shows how the components of SAP BusinessObjects Enterprise and SAP BusinessObjects Metadata Management are deployed on four computers. 38 SAP BusinessObjects Metadata Management User's Guide Deployment Deployment 3 The diagram shows: · 1 back-end server (SJ-CMS-01) to host CMS framework servers. · 1 processing server (SJ-PS-01) to host the Metadata Management Search Server, the SAP BusinessObjects Data Services Metadata Integrator, RDBMS Metadata Integrator, and the SAP NetWeaver Business Warehouse (BW) Metadata Integrator. The rationale to combine these components is that the execution time s not very long for each of these Metadata Integrator and they can be scheduled to run at different times. SAP BusinessObjects Metadata Management User's Guide 39 3 Deployment Deployment · 1 processing server (SJ-PS-02) to host the CWM Metadata Integrator, SAP BusinessObjects Enterprise Metadata Integrator (BOE Integrator), the Relationship Server, and SAP BusinessObjects Metadata Management repository (BOMM Repository).

The assumption is that the CWM Integrator runs very infrequently compared to the BusinessObjects Enterprise Integrator. Note: To improve database throughput, the Metadata Management repository should be near the job server that processes the largest amount of data. Therefore, you can install the repository on the same computer as the Metadata Integrator that processes the largest amount of data. · 1 web application server (SJ-WS-01) to host CMC applications, including the Metadata Management application.



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Scenario 3: High availability This example shows a scenario in which you want to ensure that computers are always available to run Metadata Integrators and the Relationship Server, and therefore you have redundant installations. The following diagram shows a possible deployment of redundant Metadata Integrators and Relationship Servers across multiple computers. 40 SAP BusinessObjects Metadata Management User's Guide Deployment Deployment 3 This diagram shows the following: · The SAP BusinessObjects Data Services (DS), Relational Database (RDBMS), and SAP NetWeaver Business Warehouse (BW) Metadata Integrators are replicated on two processing servers (SJ-PS-01 and SJ-PS-03). · The CWM and SAP BusinessObjects Enterprise Metadata Integrators are replicated on two processing servers (SJ-PS-02 and SJ-PS-04). · The Relationship Server is replicated on two processing servers (SJ-PS-02 and SJ-PS-03). SAP BusinessObjects Metadata Management User's Guide 41 3 Deployment Deployment 42 SAP BusinessObjects Metadata Management User's Guide Installation for Windows 4 4 Installation for Windows Preparing to install Metadata Management Preparing to install Metadata Management Pre-installation overview SAP BusinessObjects Metadata Management provides an open and flexible architecture that supports a multitude of deployment and configuration scenarios.

Before you install the product you should: · Ensure that that your network and systems meet the basic requirements for an SAP BusinessObjects Metadata Management installation. · Obtain the product software by electronic download or on CD/DVD, as well as any required licensing keycodes. · Review the SAP BusinessObjects Metadata Management Release Notes and the section Architecture on page 19. · Ensure that the user who will run the installation setup program has adequate permissions to complete the installation tasks. · Determine where the product components should be installed and consider how you should prepare your infrastructure and set up your environment, including server locations.

· Decide the database server to use for the SAP BusinessObjects Metadata Management repository and prepare the database. · Determine your installation method. The following sections list the software and system requirements and the install methods available to you for installing SAP BusinessObjects Metadata Management. Note: The following Metadata Management components can only be installed on Windows (you cannot install them on UNIX): · Metadata Integrators · Search Server (provides ability to search metadata on the Metadata management Explorer) · Relationship Server Related Topics · Architecture on page 19 44 SAP BusinessObjects Metadata Management User's Guide Installation for Windows Preparing to install Metadata Management 4 · License keys on page 97 System requirements For a detailed list of supported environments and hardware requirements, refer to the Products Availability Report in the SAP BusinessObjects Support > Supported Platforms section of the SAP Service Marketplace: <http://service.sap.com/bosap-support>. This document includes specific version and patch-level requirements for databases, applications, web application servers, web browsers, and operating systems. Generally, the following components must be preinstalled and configured correctly before you can install SAP BusinessObjects Metadata Management: · Microsoft Windows 2003 operating system - Required for the Metadata Integrators and Search Server components of Metadata Management. · Solaris, AIX, or Linux operating system - Optional for the Metadata Management CMS Repository Objects and Web Applications components. · Microsoft Internet Explorer · SAP BusinessObjects Enterprise XI 3.0 FP1 required components for the specific Metadata Management component to be installed on this computer. See Prerequisites for each component on page 34. Metadata Management uses the Web application server and Java 2 Software Development Kit (JDK) that BusinessObjects Enterprise uses. Note: For UNIX, you must increase the memory setting for Web Logic in the following directory: `Weblogic_install/wlserver_10.0/samples/do mains/wl_server/bin/setDomainEnv`.

sh. Change the value of the parameter `-XX:MaxPermSize` from 128m to 256m . Note: To install Metadata Management, you must be the BusinessObjects Enterprise Administrator. Network requirements When installing SAP BusinessObjects Metadata Management on multiple computers, you must ensure that: SAP BusinessObjects Metadata Management User's Guide 45 4 Installation for Windows Preparing to install Metadata Management · each target machine can communicate over TCP/IP with the machine running the Central Management Server (CMS). the target machines can communicate over TCP/IP with each other. In particular: · your Metadata Integrators must be able to communicate with the machine that is running the Metadata Management repository. · your Search Server must be able to communicate with the machine that is running the web application server for the Metadata Management Explorer and machines where Metadata Integrators are deployed. For more information on the communication between components, refer to Architecture on page 19. User permissions for installing Metadata Management To successfully install SAP BusinessObjects Metadata Management on Windows, the user running the setup program must have the permissions listed in the table below: 46 SAP BusinessObjects Metadata Management User's Guide Installation for Windows Preparing to install Metadata Management 4 Category Operating System Network Required permissions Administrative privileges on the local machine. TCP/IP access to all machines where you want to install components - all specified ports must be available.

SAP BusinessOb- You must be the SAP BusinessObjects Enterprise Administrator. Database Rights to add and drop database objects (such as tables and views), plus rights to read, write, and edit table rows. Web application It is recommended that you use the same user account for server installing BusinessObjects Enterprise and your web application server. To deploy Metadata Management web applications using a user account different from the one used to install the web application server, see "Minimum user rights for deploying web applications" in the BusinessObjects Enterprise XI 3 Installation and Configuration Guide. Choose components and determine component distribution You can choose to install SAP BusinessObjects Metadata Management components on one or more computers based on available resources and your deployment planning. For guidelines and suggested scenarios to distribute the software components, see Deployment on page 32.

SAP BusinessOb- You must be the SAP BusinessObjects Enterprise Administrator. Database Rights to add and drop database objects (such as tables and views), plus rights to read, write, and edit table rows. Web application It is recommended that you use the same user account for server installing BusinessObjects Enterprise and your web application server. To deploy Metadata Management web applications using a user account different from the one used to install the web application server, see "Minimum user rights for deploying web applications" in the BusinessObjects Enterprise XI 3 Installation and Configuration Guide. Choose components and determine component distribution You can choose to install SAP BusinessObjects Metadata Management components on one or more computers based on available resources and your deployment planning. For guidelines and suggested scenarios to distribute the software components, see Deployment on page 32.



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Note: . . . You must install the Metadata Management CMS Repository Objects on the same computer as the SAP BusinessObjects Enterprise CMS. You can install the Metadata Management CMS Repository Objects and Web Application on Windows, UNIX, or Linux platforms. You must install the Metadata Integrators, Relationship Server, and Search Server on a supported Windows platform that already has the Adaptive Processing Server installed on it. The following table shows the software components and their sub-components that you can choose.

SAP BusinessObjects Metadata Management User's Guide 47 4 Installation for Windows Preparing to install Metadata Management Feature category Component Description Includes definitions and location information for the SAP BusinessObjects Metadata Management application, repository, Objects and other objects. 48 SAP BusinessObjects Metadata Management User's Guide Installation for Windows Preparing to install Metadata Management 4 Feature category Component Description Extracts information from an SAP BusinessObjects Enterprise repository that includes metadata objects such as SAP Enterprise Metadata Integrator BusinessObjects Crystal Reports, Web Intelligence documents, and Desktop Intelligence documents. Extracts information from a NetWeaver SAP NetWeaver Business Warehouse system which includes metadata objects such as Queries, InfoProviders, InfoObjects, Transformations, and DataSources. Extracts information from the CWM Relational Warehouse Modtional Package that includes definitions of metadata objects such as catalogs, schemas, and tables. Extracts information from an RDBMS that includes definitions of metadata objects such as catalogs, schemas, stored procedures, and aliases. Relational Databases Supported relational databases include (RDBMS) Metadata Integrators Teradata, or a Universe connection using JDBC or ODBC. For complete details, see the Supported Platforms document. Extracts information from an SAP BusinessObjects Data Services repository which SAP BusinessObjects Data Services Metadata Integrator SAP BusinessObjects Metadata Management User's Guide 49 4 Installation for Windows Preparing to install Metadata Management Feature category Component Description Extracts information from an SAP BusinessObjects Data Federator repository which includes definitions of metadata objects such as projects, catalogs, datasources, and mapping rules. Extracts the following metadata from other sources: . Data Modeling metadata such as Sybase Power Designer, Embarcadero ER/Studio, and Oracle Designer . ETL metadata such as Oracle Warehouse Builder, SAS ETL Studio, and Meta Integration Metadata Microsoft SQL Server Integration Services (SSIS) Integrator . OLAP and BI metadata such as IBM DB2 Cube Views, Oracle OLAP, and Cognos 8 BI Reporting For more information, see <http://www.netintegration.net/Products/MIMB/Documentation/>.

Metadata Management Relationship Server Metadata Management Search Server Processes object relationships (for example, impact and lineage). Provides search capability on SAP BusinessObjects Metadata Management Explorer. 50 SAP BusinessObjects Metadata Management User's Guide Installation for Windows Preparing to install Metadata Management 4 Feature category Component Description Provides web applications that: . administer SAP BusinessObjects Metadata Management on the Central Management Console (CMC) . comprise the SAP BusinessObjects Metadata Management Explorer Note: If SAP BusinessObjects Enterprise has manually deployed the web application, follow the steps in the Manually deploy web application procedure. Web Application Related Topics . Architecture overview on page 20 Repository database requirements and preparation The SAP BusinessObjects Metadata Management repository is a database that stores all metadata that the Metadata Integrators collect. You use the information in the repository to analyze relationships between objects, as well as to analyze impact and lineage between objects. For example, you can find the tables and columns used by your Business Intelligence reports and documents. You can either create a new database for the repository or use an existing repository. The SAP BusinessObjects Metadata Management installation process will either create new tables or upgrade the existing tables within the repository.

Related Topics . . Setting up a new database on page 52 Exploring SAP BusinessObjects Enterprise metadata on page 272 SAP BusinessObjects Metadata Management User's Guide 51 4 Installation for Windows Preparing to install Metadata Management Setting up a new database This procedure creates a SAP BusinessObjects Metadata Management Repository database and configures it for the user who will connect to it. The installation process will create the tables within the Metadata Management Repository. 1. Create a new database on your database server. Compatible database types include DB2, Microsoft SQL Server, MySQL, Oracle, and Oracle RAC.

For the most current list of supported database software and version requirements, see the Products Availability Report available on the SAP support site: <https://service.sap.com/bosap-support>. Note: . If you create a new DB2 8.x database: . In the creation wizard, set the code set to UTF-8. . Create three buffer pools, one for each page size: 8K, 16K and 32K. The buffer pool size should be set to 1000. . Create one temporary system table space for the 32K buffer pool. . Create one regular table space for the 32K buffer pool. If you create a new DB2 9.x database: . In the creation wizard, set the code set to UTF-8 and the default buffer pool and table space page size to 32K. . 2. Create a new user and assign a secure password. 3. Ensure that the new user has permission to create, modify, and delete database objects so that Metadata Management can modify the database as required.

Note: If you are not the owner of the database, you must have permissions to perform the necessary operations. Related Topics . To configure your Metadata Management repository on page 59 52 SAP BusinessObjects Metadata Management User's Guide Installation for Windows Preparing to install Metadata Management 4 Installation scenarios The following installation methods are available to you for installing SAP BusinessObjects Metadata Management on Windows: . Standard installation Installs from the installation wizard.



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· Migration Upgrades an existing SAP BusinessObjects Metadata Management repository during installation. · Remote Job Server installation Installs a Remote Job Server component for a Metadata Integrator to collect metadata from an SAP BusinessObjects Enterprise XI R2 system. · Copy integrator configurations Copies integrator source configurations from a development to test environment or from a test to production environment. · Back up and restore configurations -- Backs up and restores integrator source configurations Metadata Management utility configurations, and integrator source groups. · Distributed deployment Installs a subset of Metadata Management components on each computer that has the prerequisite software. Related Topics
Standard installation of Metadata Management on page 54 Remote Job Server Installation on page 76 Migration on page 111 Deployment on page 32 License keys You purchase a license key for the SAP BusinessObjects Metadata Management features that you want. To purchase license keys: · Contact your sales representative. · Contact your regional office.

Related Topics · To enter product key code on page 100 SAP BusinessObjects Metadata Management User's Guide 53 4 Installation for Windows Standard installation of Metadata Management · Updating the license key on page 115 Standard installation of Metadata Management Before beginning your installation, review the Pre-installation overview to ensure that you have prepared all necessary systems. The following instructions lead you through the standard installation steps of setting up your SAP BusinessObjects Metadata Management on Windows: 1. To begin running the installation program on page 54 2. To accept the license agreement on page 55 3. To enter user information and a product key code on page 55 4.

To specify the CMS log on information on page 56 5. To select components to install on page 57 6. To configure your Metadata Management repository on page 59 7. To configure your existing Web application server on page 60 8. To start the installation on page 61 9.

To manually deploy web application server components on page 62 After your installation successfully completes, you access Metadata Management from the Central Management Console (CMC) of SAP BusinessObjects Enterprise. Related Topics · · Pre-installation overview on page 88 Accessing Metadata Management for administrative tasks on page 119 To begin running the installation program To run the SAP BusinessObjects Metadata Management installation program: 1. Log on to your computer using an account with local Windows administrator privileges and access to your network. 2. If you downloaded SAP BusinessObjects Metadata Management from Electronic Software Delivery, open the Setup.exe file or Autorun.exe. Or, insert the SAP BusinessObjects Metadata Management Installation CD 54 SAP BusinessObjects Metadata Management User's Guide Installation for Windows Standard installation of Metadata Management 4 into your CD-ROM drive (if the installer does not automatically open, open Autorun.exe from the top level of the CD contents). 3.

On the "Welcome to the BusinessObjects Metadata Management Installation Wizard" window, click Next. Related Topics · Pre-installation overview on page 88 To accept the license agreement At the "License Agreement" window, review and accept the license agreement for SAP BusinessObjects Metadata Management. You must accept the agreement to continue with the installation setup. 1. Review the License Agreement. 2. Select I accept the License Agreement. You cannot continue unless you accept the License Agreement. 3. Click Next to continue the installation setup.

The "User Information" screen displays. To enter user information and a product key code On the "User Information" screen, enter user information and provide a product code for your SAP BusinessObjects Metadata Management installation. 1. Provide your user credentials in the Full Name and Organization fields. This information personalizes your installation and is recorded in the registry. 2. Enter a valid code in the Product Keycode field. Note: You enter a single product keycode during Metadata Management installation. If you need to change the keycode after installation, use the "License Keys" management area of the Central Management Console (CMC). 3.

Click Next. SAP BusinessObjects Metadata Management User's Guide 55 4 Installation for Windows Standard installation of Metadata Management Related Topics · Updating the license key on page 115 To specify the CMS log on information At the "BusinessObjects Enterprise Server Login" window, specify connection information for the SAP BusinessObjects Central Management Server (CMS). If applicable, you also specify values for Secure Sockets Layer (SSL) options. 1. Specify the following connection information to log on to the Central Management Server (CMS). Option Description Host name of the CMS (Central Management Server). This value is required. Server Name The CMS is responsible for maintaining a database of information about your SAP BusinessObjects Enterprise system. The data stored by the CMS includes information about users and groups, security levels, BusinessObjects Enterprise content, and servers. For more information about the CMS, see SAP BusinessObjects Enterprise Administrator's Guide.

Note: If you are installing the Remote Job Server, specify the CMS that you will use to configure and schedule integrator source runs. Enable SSL If you use the Secure Sockets Layer (SSL) protocol for all network communication between clients and servers in your BusinessObjects Enterprise deployment, select the Enable SSL. The CMS user name to connect to the CMS server. User The default value is Administrator. 56 SAP BusinessObjects Metadata Management User's Guide Installation for Windows Standard installation of Metadata Management 4 Option Password Description The password to connect to the CMS server to register and run the Metadata Integrator. The CMS authentication mode. The default value is Enterprise. See the SAP Business Objects Administrator's Guide for available modes. Authentication Mode 2. If you selected Enable SSL, fill in the values for the following options on the SSL window: · SSL Certificates Folder · Server SSL Certificate File · SSL Trusted Certificate File · SSL Private Key File · SSL Private Key File Passphrase File For more information, see "Configuring servers for SSL" in your SAP BusinessObjects Enterprise Administrator's Guide.

3. Click Next. The "Select Features" screen displays. To select components to install At the "Select Features" window, select or deselect SAP BusinessObjects Metadata Management components that you want to install on this computer.



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