



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for BUSINESS OBJECTS DATA SERVICES XI 3.2. You'll find the answers to all your questions on the BUSINESS OBJECTS DATA SERVICES XI 3.2 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual BUSINESS OBJECTS DATA SERVICES XI 3.2
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Instructions for use BUSINESS OBJECTS DATA SERVICES XI 3.2
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SAP BusinessObjects Data Services
Designer Guide

SAP BusinessObjects Data Services XI 3.2 (12.2.0)



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Introduction Welcome to SAP BusinessObjects Data Services Welcome to SAP BusinessObjects Data Services Welcome SAP BusinessObjects Data Services
XI Release 3 provides data integration and data quality processes in one runtime environment, delivering enterprise performance and scalability. The data
integration processes of SAP BusinessObjects Data Services allow organizations to easily explore, extract, transform, and deliver any type of data anywhere
across the enterprise. The data quality processes of SAP BusinessObjects Data Services allow organizations to easily standardize, cleanse, and consolidate
data anywhere, ensuring that end users are always working with information that's readily available, accurate, and trusted.
Documentation set for SAP BusinessObjects Data Services You should become familiar with all the pieces of documentation that relate to your SAP
BusinessObjects Data Services product. Document Documentation Map What this document provides Information about available SAP BusinessObjects Data
Services books, languages, and locations Highlights of key features in this SAP BusinessObjects Data Services release Important information you need before
installing and deploying this version of SAP BusinessObjects Data Services Release Summary Release Notes 22 SAP BusinessObjects Data Services Designer
Guide Introduction Welcome to SAP BusinessObjects Data Services 1 Document Getting Started Guide What this document provides An introduction to SAP
BusinessObjects Data Services Information about and procedures for installing SAP BusinessObjects Data Services in a Windows environment Information
about and procedures for installing SAP BusinessObjects Data Services in a UNIX environment Guidelines and options for migrating applications including
information on multi-user functionality and the use of the central repository for version control Information about how to use SAP BusinessObjects Data
Services Designer Information for third-party developers to access SAP BusinessObjects Data Services functionality using web services and APIs Information
about how to use SAP BusinessObjects Data Services Administrator Information about how to use SAP BusinessObjects Data Services Metadata Reports
Release-specific product behavior changes from earlier versions of SAP BusinessObjects Data Services to the latest release. This manual also contains
information about how to migrate from SAP BusinessObjects Data Quality Management to SAP BusinessObjects Data Services Information about how to
improve the performance of SAP BusinessObjects Data Services Detailed reference material for SAP BusinessObjects Data Services Designer Installation
Guide for Windows Installation Guide for UNIX Advanced Development Guide Designer Guide Integrator's Guide Management Console: Administrator
Guide Management Console: Metadata Reports Guide Migration Considerations Performance Optimization Guide Reference Guide SAP BusinessObjects
Data Services Designer Guide 23 1 Introduction Welcome to SAP BusinessObjects Data Services Document What this document provides A compiled
"master" PDF of core SAP BusinessObjects Data Services books containing a searchable master table of contents and index: · Getting Started Guide ·
Installation Guide for Windows · Installation Guide for UNIX · Designer Guide · Reference Guide · Management Console: Metadata Reports Guide ·
Management Console: Administrator Guide · Performance Optimization Guide · Advanced Development Guide · Supplement for J.D. Edwards · Supplement
for Oracle Applications · Supplement for PeopleSoft · Supplement for Siebel · Supplement for SAP A step-by-step introduction to using SAP BusinessObjects

Data Services Technical Manuals Tutorial In addition, you may need to refer to several Adapter Guides and Supplemental Guides. Document Salesforce.com Adapter Interface Supplement for J.D. Edwards What this document provides Information about how to install, configure, and use the SAP BusinessObjects Data Services Salesforce.com Adapter Interface Information about interfaces between SAP BusinessObjects Data Services and J. D. Edwards World and J.D. Edwards OneWorld Supplement for Oracle Ap- Information about the interface between SAP BusinessObjects Data Services and Oracle Applications plications Supplement for PeopleSoft Information about interfaces between SAP BusinessObjects Data Services and PeopleSoft 24 SAP BusinessObjects Data Services Designer Guide Introduction Welcome to SAP BusinessObjects Data Services 1 Document Supplement for SAP What this document provides Information about interfaces between SAP BusinessObjects Data Services, SAP Applications, and SAP NetWeaver BW Information about the interface between SAP BusinessObjects Data Services and Siebel Supplement for Siebel Accessing documentation You can access the complete documentation set for SAP BusinessObjects Data Services in several places. Accessing documentation on Windows After you install SAP BusinessObjects Data Services, you can access the documentation from the Start menu. 1. Choose Start > Programs > SAP BusinessObjects XI 3.2 > SAP BusinessObjects Data Services > Data Services Documentation. Note: Only a subset of the documentation is available from the Start menu. The documentation set for this release is available in LINK_DIR\Doc\Books\en.

2. Click the appropriate shortcut for the document that you want to view. Accessing documentation on UNIX After you install SAP BusinessObjects Data Services, you can access the online documentation by going to the directory where the printable PDF files were installed. 1. Go to LINK_DIR/doc/book/en/. 2. Using Adobe Reader, open the PDF file of the document that you want to view.



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x. Click the BusinessObjects Data Services link in the main window. Overview of this guide Welcome to the Designer Guide. The Data Services Designer provides a graphical user interface (GUI) development environment in which you define data application logic to extract, transform, and load data from databases and applications into a data warehouse used for analytic and on-demand queries. You can also use the Designer to define logical paths for processing message-based queries and transactions from Web-based, front-office, and back-office applications.

About this guide The guide contains two kinds of information: · · · Conceptual information that helps you understand the Data Services Designer and how it works Procedural information that explains in a step-by-step manner how to accomplish a task You will find this guide most useful: · · · While you are learning about the product While you are performing tasks in the design and early testing phase of your data-movement projects As a general source of information during any phase of your projects 28 SAP BusinessObjects Data Services Designer Guide Introduction Overview of this guide 1 Who should read this guide This and other Data Services product documentation assumes the following: · You are an application developer, consultant, or database administrator working on data extraction, data warehousing, data integration, or data quality. You understand your source data systems, RDBMS, business intelligence, and messaging concepts. You understand your organization's data needs. You are familiar with SQL (Structured Query Language). If you are interested in using this product to design real-time processing, you should be familiar with: · · · DTD and XML Schema formats for XML files Publishing Web Services (WSDL, HTTP, and SOAP protocols, etc.) · · · You are familiar Data Services installation environments--Microsoft Windows or UNIX. SAP BusinessObjects Data Services Designer Guide 29 1 Introduction Overview of this guide 30 SAP BusinessObjects Data Services Designer Guide Logging into the Designer 2 2 Logging into the Designer Creating a repository This section describes how to log in to the Designer. When you log in to the Designer, you are actually logging in to the database you defined for the repository. Repositories can reside on Oracle, Microsoft SQL Server, IBM DB2, Sybase ASE.

Creating a repository You must configure a local repository to log in to the software.

Typically, you create a repository during installation. However, you can create a repository at any time using the Repository Manager. To create a local repository: 1. Define a database for the local repository using your database management system. 2. From the Start menu, choose Programs > SAP BusinessObjects XI 3.2 > SAP BusinessObjects Data Services > Data Services Repository Manager. 3. In the Repository Manager window, enter the database connection information for the repository and select Local for repository type. 4. Click Create. This adds the repository schema to the specified database. Associating the repository with a Job Server Each repository must be associated with at least one Job Server, which is the process that starts jobs. When running a job from a repository, you select one of the associated repositories. In production environments, you can balance loads appropriately. You can link any number of repositories to a single Job Server. The same Job Server can run jobs stored on multiple repositories. Typically, you define a Job Server and link it to a repository during installation. However, you can define or edit Job Servers or links between repositories and Job Servers at any time using the Server Manager. To create a Job Server for your local repository · Open the Server Manager.

32 SAP BusinessObjects Data Services Designer Guide Logging into the Designer Entering repository login information 2 Choose Start > Programs > SAP BusinessObjects XI 3.



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2 > SAP BusinessObjects Data Services > Data Services Server Manager. Entering repository login information To log in, enter the connection information for your repository. The required information varies with the type of database containing the repository. Version restrictions Your repository version must be associated with the same major release as the Designer and must be less than or equal to the version of the Designer. During login, the software alerts you if there is a mismatch between your Designer version and your repository version. After you log in, you can view the software and repository versions by selecting Help > About Data Services. Some features in the current release of the Designer might not be supported if you are not logged in to the latest version of the repository. Oracle login Choose Start > Programs > SAP BusinessObjects XI 3.2 > SAP BusinessObjects Data Services > Data Services Designer.

In the Repository Login window, complete the following fields: . . . Database type -- Select Oracle. Database connection name -- The TNSnames.ora entry or Net Service Name of the database. User name and Password --The user name and password for the repository that you defined in your Oracle database. Remember -- Check this box if you want the Designer to store this information for the next time you log in. SAP BusinessObjects Data Services Designer Guide 33 2 Logging into the Designer Entering repository login information Microsoft SQL Server login Choose Start > Programs > SAP BusinessObjects XI 3.2 > SAP BusinessObjects Data Services > Data Services Designer. For a Microsoft SQL Server repository, you must complete the following fields: 1.

Database type -- Select Microsoft_SQL_Server. 2.

Database server name --The database server name. 3. Database name -- The name of the specific database to which you are connecting. 4. Windows authentication -- Select to have Microsoft SQL Server validate the login account name and password using information from the Windows operating system; clear to authenticate using the existing Microsoft SQL Server login account name and password and complete the User name and Password fields. 5. User name and Password -- The user name and password for the repository that you defined in your Microsoft SQL Server database. 6. Remember -- Check this box if you want the Designer to store this information for the next time you log in. IBM DB2 login Choose Start > Programs > SAP BusinessObjects XI 3.2 > SAP BusinessObjects Data Services > Data Services Designer. For a DB2 repository, you must complete the following fields: . . . Database type -- Select DB2. DB2 datasource -- The data source name. User name and Password -- The user name and password for the repository that you defined in your DB2 database. Remember -- Check this box if you want the Designer to store this information for the next time you log in. 34 SAP BusinessObjects Data Services Designer Guide Logging into the Designer Resetting users 2 Sybase ASE login Choose Start > Programs > SAP BusinessObjects XI 3.2 > SAP BusinessObjects Data Services > Data Services Designer. For a Sybase ASE repository, you must complete the following fields: . . Database type -- Select Sybase ASE. Database server name -- Enter the database's server name. Note: For UNIX Job Servers, when logging in to a Sybase repository in the Designer, the case you type for the database server name must match the associated case in the SYBASE_Home\interfaces file.

If the case does not match, you might receive an error because the Job Server cannot communicate with the repository. . . . Database name -- Enter the name of the specific database to which you are connecting. User name and Password -- Enter the user name and password for this database. Remember -- Check this box if you want the Designer to store this information for the next time you log in. Resetting users Occasionally, more than one person may attempt to log in to a single repository. If this happens, the Reset Users window appears, listing the users and the time they logged in to the repository. From this window, you have several options. You can: . . . Reset Users to clear the users in the repository and set yourself as the currently logged in user. Continue to log in to the system regardless of who else might be connected. Exit to terminate the login attempt and close the session.

SAP BusinessObjects Data Services Designer Guide 35 2 Logging into the Designer Resetting users Note: Only use Reset Users or Continue if you know that you are the only user connected to the repository. Subsequent changes could corrupt the repository. 36 SAP BusinessObjects Data Services Designer Guide Designer User Interface 3 3 Designer User Interface Objects This section provides basic information about the Designer's graphical user interface. Objects All "entities" you define, edit, or work with in Designer are called objects. The local object library shows objects such as source and target metadata, system functions, projects, and jobs.

Objects are hierarchical and consist of: · Options, which control the operation of objects. For example, in a datastore, the name of the database to which you connect is an option for the datastore object. Properties, which document the object. For example, the name of the object and the date it was created are properties. Properties describe an object, but do not affect its operation.

· The software has two types of objects: Reusable and single-use. The object type affects how you define and retrieve the object. Reusable objects You can reuse and replicate most objects defined in the software. After you define and save a reusable object, the software stores the definition in the local repository. You can then reuse the definition as often as necessary by creating calls to the definition. Access reusable objects through the local object library. A reusable object has a single definition; all calls to the object refer to that definition. If you change the definition of the object in one place, you are changing the object in all other places in which it appears. A data flow, for example, is a reusable object. Multiple jobs, like a weekly load job and a daily load job, can call the same data flow.

If the data flow changes, both jobs use the new version of the data flow. 38 SAP BusinessObjects Data Services Designer Guide Designer User Interface Objects 3 The object library contains object definitions. When you drag and drop an object from the object library, you are really creating a new reference (or call) to the existing object definition. Single-use objects Some objects are defined only within the context of a single job or data flow, for example scripts and specific transform definitions.



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Object hierarchy Object relationships are hierarchical. The following figure shows the relationships between major object types: SAP BusinessObjects Data Services Designer Guide 39 3 Designer User Interface Objects 40 SAP BusinessObjects Data Services Designer Guide Designer User Interface Designer window 3 Designer window The Designer user interface consists of a single application window and several embedded supporting windows. In addition to the Menu bar and Toolbar, there are other key areas of the application window: Area Project area Description Contains the current project (and the job(s) and other objects within it) available to you at a given time. In the software, all entities you create, modify, or work with are objects. The area of the application window in which you define, display, and modify objects. Workspace SAP BusinessObjects Data Services Designer Guide 41 3 Designer User Interface Menu bar Area Local object library Description Provides access to local repository objects including built-in system objects, such as transforms, and the objects you build and save, such as jobs and data flows.

Tool palette Buttons on the tool palette enable you to add new objects to the workspace. *Menu bar* This section contains a brief description of the Designer's menus. *Project menu* The project menu contains standard Windows as well as software-specific options. *Option New* Description Define a new project, batch job, real-time job, work flow, data flow, transform, datastore, file format, DTD, XML Schema, or custom function. *Open* an existing project. *Close* the currently open project. *Delete* the selected object. *Save* the object open in the workspace. *Save all* changes to objects in the current Designer session. *Print* the active workspace.

Open Close Delete Save Save All Print 42 SAP BusinessObjects Data Services Designer Guide Designer User Interface Menu bar 3 *Option Print Setup Compact Repository Exit* Description Set up default printer information. Remove redundant and obsolete objects from the repository tables. *Exit* Designer. *Edit menu* The Edit menu provides standard Windows commands with a few restrictions. *Option Undo Cut Copy Paste Delete* Description Undo the last operation. Cut the selected objects or text and place it on the clipboard. Copy the selected objects or text to the clipboard. Paste the contents of the clipboard into the active workspace or text box. *Delete* the selected objects. *Recover Last Recover* deleted objects to the workspace from which they Deleted were deleted.

Only the most recently deleted objects are recovered. *Select All Clear All* Select all objects in the active workspace. Clear all objects in the active workspace (no undo). *View menu* A check mark indicates that the tool is active. SAP BusinessObjects Data Services Designer Guide 43 3 Designer User Interface Menu bar *Option Toolbar Status Bar Palette* Description Display or remove the toolbar in the Designer window. Display or remove the status bar in the Designer window. Display or remove the floating tool palette. *Enabled Descrip-* View descriptions for objects with enabled descriptions. *tions Refresh Redraw* the display. Use this command to ensure the content of the workspace represents the most up-to-date information from the repository.

Tools menu An icon with a different color background indicates that the tool is active. *Option Object Library Project Area Variables Output* Description Open or close the object library window. Display or remove the project area from the Designer window. Open or close the Variables and Parameters window. Open or close the Output window.

The Output window shows errors that occur such as during job validation or object export. Display the status of Profiler tasks. Display the Match Wizard to create a match data flow. Select a transform in a data flow to activate this menu item. The transform(s) that the Match Wizard generates will be placed downstream from the transform you selected.

Display the Match Editor to edit Match transform options. Display the Associate Editor to edit Associate transform options. *Profiler Monitor Run match Wizard Match Editor Associate Editor* 44 SAP BusinessObjects Data Services Designer Guide Designer User Interface Menu bar 3 *Option User-Defined Editor Custom Functions System Configurations* Description Display the User-Defined Editor to edit User-Defined transform options. Display the Custom Functions window. Display the System Configurations editor. *Substitution Parame-* Display the Substitution Parameter Editor to create and ter Configurations edit substitution paramters and configurations. *Profiler Server Login Connect* to the Profiler Server. *Export* Export individual repository objects to another repository or file. This command opens the Export editor in the workspace. You can drag objects from the object library into the editor for export.

To export your whole repository, in the object library right-click and select *Repository > Export to file*. Import objects into the current repository from a file.

The default file types are ATL, XML, DMT, and FMT. For more information on importing objects, see the Advanced Development Guide. For more information on DMT and FMT files, see the Migration Guide. Import and export metadata to third-party systems via a file. *Export* (create or update) metadata in BusinessObjects Universes. *Import From File Metadata Exchange* BusinessObjects Universes Central Repositories Create or edit connections to a central repository for managing object versions among multiple users. *Options Management Console* Display the Options window. Display the Management Console.

Assess and Monitor Open Data Insight to profile, examine and report on the quality of your data. This menu item is only available if you have purchased and installed Data Insight. *Related Topics* · Advanced Development Guide: Multi-user environment setup SAP BusinessObjects Data Services Designer Guide 45 3 Designer User Interface Menu bar · Advanced Development Guide: Export/Import, Importing from a file · Advanced Development Guide: Export/Import, Exporting/importing objects in Data Services · Reference Guide: Functions and Procedures, Custom functions · Local object library on page 57 · Project area on page 51 · Variables and Parameters on page 341 · Using the Data Profiler on page 393 · Creating and managing multiple datastore configurations on page 128 · Connecting to the profiler server on page 394 · Metadata exchange on page 746 · Creating SAP universes on page 748 · General and environment options on page 73 *Debug menu* The only options available on this menu at all times are *Show Filters/Breakpoints* and *Filters/Breakpoints*. The *Execute* and *Start Debug* options are only active when a job is selected. All other options are available as appropriate when a job is running in the Debug mode.



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Option Execute Start Debug Description Opens the Execution Properties window which allows you to execute the selected job. Opens the Debug Properties window which allows you to run a job in the debug mode. Show Filters and hides filters and breakpoints in workspace diagrams/Breakpoints groups. *Filters/Breakpoints Related Topics* Opens a window you can use to manage filters and breakpoints. · · Using the interactive debugger on page 715 *Filters and Breakpoints window* on page 730 46 *SAP BusinessObjects Data Services Designer Guide Designer User Interface Menu bar 3 Validation menu* The Designer displays options on this menu as appropriate when an object is open in the workspace.

Option Validate Show ATL Display Optimized SQL Related Topics Description Validate the objects in the current workspace view or all objects in the job before executing the application. View a read-only version of the language associated with the job. Display the SQL that Data Services generated for a selected data flow. · *Performance Optimization Guide: Maximizing Push-Down Operations, To view SQL Dictionary menu* The Dictionary menu contains options for interacting with the dictionaries used by cleansing packages and the Data Cleanse transform. *Option Search Add New Dictionary Entry Bulk Load View Bulk Load Conflict Logs Export Dictionary Changes Description* Search for existing dictionary entries. Create a new primary dictionary entry. Import a group of dictionary changes from an external file. Display conflict logs generated by the Bulk Load feature. Export changes from a dictionary to an XML file. *SAP BusinessObjects Data Services Designer Guide 47 3 Designer User Interface Menu bar Option Universal Data Cleanse Description* Dictionary-related options specific to the Universal Data Cleanse feature.

Add New Classification- Add a new dictionary classification. Edit Classification Edit an existing dictionary classification. *Add Custom Output Create Dictionary Delete Dictionary Manage Connection* Add custom output categories and fields to a dictionary. Create a new dictionary in the repository. Delete a dictionary from the repository. Update the connection information for the dictionary repository connection. *Window menu* The Window menu provides standard Windows options. *Option Back Forward Cascade Tile Horizontally Tile Vertically Close All Windows Description* Move back in the list of active workspace windows. Move forward in the list of active workspace windows. Display window panels overlapping with titles showing. *Display window panels side by side. Display window panels one above the other. Close all open windows.* A list of objects open in the workspace also appears on the Windows menu. The name of the currently-selected object is indicated by a check mark.

Navigate to another open object by selecting its name in the list. 48 *SAP BusinessObjects Data Services Designer Guide Designer User Interface Toolbar 3 Help menu* The Help menu provides standard help options. *Option Contents Description* Display the Technical Manuals. *Technical Manual- Display the Technical Manuals.* You can also access the same documentation from the <LINKDIR>\Doc\Books directory.

Release Notes Display release notes for this release. *Release Summary- Display a summary of new features for this release.* *About Data Services- Display information about the software including versions of the Designer, Job Server and engine, and copyright information.* *Toolbar* In addition to many of the standard Windows tools, the software provides application-specific tools, including: *Icon Tool Description* Close all windows *Local Object Library Central Object Library* Closes all open windows in the workspace. Opens and closes the local object library window. Opens and closes the central object library window. Opens and closes the variables and parameters creation window. *Variables* *SAP BusinessObjects Data Services Designer Guide 49 3 Designer User Interface Toolbar Icon Tool Description Project Area Output View Enabled Descriptions* Opens and closes the project area. Opens and closes the output window. Enables the system level setting for viewing object descriptions in the workspace.

Validates the object definition open in the workspace. Other objects included in the definition are also validated. Validates the object definition open in the workspace. Objects included in the definition are also validated. Opens the Audit window to define audit labels and rules for the data flow. Opens the Output window, which lists parent objects (such as jobs) of the object currently open in the workspace (such as a data flow). Use this command to find other jobs that use the same data flow, before you decide to make design changes. To see if an object in a data flow is reused elsewhere, right-click one and select View Where Used. Move back in the list of active workspace windows. Move forward in the list of active workspace windows.

Validate Current View Validate All Objects in View Audit Objects in Data Flow View Where Used Go Back Go Forward 50 *SAP BusinessObjects Data Services Designer Guide Designer User Interface Project area 3 Icon Tool Description Management Console* Opens and closes the Management Console window. Opens the Data Insight application where you can profile, examine and report on the quality of your data. Opens the Technical Manuals PDF for information about using the software. *Assess and Monitor Contents* Use the tools to the right of the About tool with the interactive debugger. *Related Topics - Debug menu options and tool bar* on page 731 *Project area* The project area provides a hierarchical view of the objects used in each project.

Tabs on the bottom of the project area support different tasks. Tabs include: Create, view and manage projects. Provides a hierarchical view of all objects used in each project. View the status of currently executing jobs. Selecting a specific job execution displays its status, including which steps are complete and which steps are executing.

These tasks can also be done using the Administrator. View the history of complete jobs. Logs can also be viewed with the Administrator. *SAP BusinessObjects Data Services Designer Guide 51 3 Designer User Interface Tool palette* To control project area location, right-click its gray border and select/deselect *Allow Docking*, or select *Hide* from the menu. · When you select *Allow Docking*, you can click and drag the project area to dock at and undock from any edge within the Designer window. When you drag the project area away from a Designer window edge, it stays undocked. To quickly switch between your last docked and undocked locations, just double-click the gray border. When you deselect *Allow Docking*, you can click and drag the project area to any location on your screen and it will not dock inside the Designer window.



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· When you select Hide, the project area disappears from the Designer window. To unhide the project area, click its toolbar icon.

Here's an example of the Project window's Designer tab, which shows the project hierarchy: As you drill down into objects in the Designer workspace, the window highlights your location within the project hierarchy. Tool palette The tool palette is a separate window that appears by default on the right edge of the Designer workspace. You can move the tool palette anywhere on your screen or dock it on any edge of the Designer window. 52 SAP BusinessObjects Data Services Designer Guide Designer User Interface Tool palette 3 The icons in the tool palette allow you to create new objects in the workspace. The icons are disabled when they are not allowed to be added to the diagram open in the workspace. To show the name of each icon, hold the cursor over the icon until the tool tip for the icon appears, as shown. When you create an object from the tool palette, you are creating a new definition of an object. If a new object is reusable, it will be automatically available in the object library after you create it. For example, if you select the data flow icon from the tool palette and define a new data flow, later you can drag that existing data flow from the object library, adding a call to the existing definition. The tool palette contains the following icons: Icon Tool Description (class) Available Pointer Returns the tool pointer to a selection pointer for selecting and Everywhere moving objects in a diagram.

Creates a new work flow. (reusable) Creates a new data flow. (reusable) Used only with the SAP application. Creates a template for a query. Use it to define column mappings Data flows and row selections.

(single-use) Creates a table for a target. (single-use) Creates an XML template. (single-use) Used only with the SAP application. Data flows Jobs and work flows Work flow Data flow Jobs and work flows ABAP data flow Query transform Template table Template XML Data transport SAP BusinessObjects Data Services Designer Guide 53 3 Designer User Interface Workspace Icon Tool Script Description (class) Available Creates a new script object. (single-use) Creates a new conditional object.

Jobs and work flows (single-use) Creates a new try object. (single-use) Creates a new catch object. (single-use) Creates an annotation. (single-use) Jobs, work flows, and data flows Conditional Try Catch Annotation Workspace When you open or select a job or any flow within a job hierarchy, the workspace becomes "active" with your selection. The workspace provides a place to manipulate system objects and graphically assemble data movement processes. These processes are represented by icons that you drag and drop into a workspace to create a workspace diagram. This diagram is a visual representation of an entire data movement application or some part of a data movement application. Moving objects in the workspace area Use standard mouse commands to move objects in the workspace. To move an object to a different place in the workspace area: 54 SAP BusinessObjects Data Services Designer Guide Designer User Interface Workspace 3 1. Click to select the object.

2. Drag the object to where you want to place it in the workspace. Connecting objects You specify the flow of data through jobs and work flows by connecting objects in the workspace from left to right in the order you want the data to be moved. To connect objects: 1. Place the objects you want to connect in the workspace. 2. Click and drag from the triangle on the right edge of an object to the triangle on the left edge of the next object in the flow. Disconnecting objects To disconnect objects 1. Click the connecting line. 2.

Press the Delete key. Describing objects You can use descriptions to add comments about objects. You can use annotations to explain a job, work flow, or data flow. You can view object descriptions and annotations in the workspace. Together, descriptions and annotations allow you to document an SAP BusinessObjects Data Services application.

For example, you can describe the incremental behavior of individual jobs with numerous annotations and label each object with a basic description. This job loads current categories and expenses and produces tables for analysis. Related Topics · · Creating descriptions on page 65 Creating annotations on page 68 SAP BusinessObjects Data Services Designer Guide 55 3 Designer User Interface Workspace Scaling the workspace You can control the scale of the workspace. By scaling the workspace, you can change the focus of a job, work flow, or data flow. For example, you might want to increase the scale to examine a particular part of a work flow, or you might want to reduce the scale so that you can examine the entire work flow without scrolling.

To change the scale of the workspace 1. In the drop-down list on the tool bar, select a predefined scale or enter a custom value (for example, 100%). 2. Alternatively, right-click in the workspace and select a desired scale. Note: You can also select Scale to Fit and Scale to Whole: · · Select Scale to Fit and the Designer calculates the scale that fits the entire project in the current view area. Select Scale to Whole to show the entire workspace area in the current view area. Arranging workspace windows The Window menu allows you to arrange multiple open workspace windows in the following ways: cascade, tile horizontally, or tile vertically. Closing workspace windows When you drill into an object in the project area or workspace, a view of the object's definition opens in the workspace area. The view is marked by a tab at the bottom of the workspace area, and as you open more objects in the workspace, more tabs appear. (You can show/hide these tabs from the Tools > Options menu.

Go to Designer > General options and select/deselect Show tabs in workspace.) 56 SAP BusinessObjects Data Services Designer Guide Designer User Interface Local object library 3 Note: These views use system resources. If you have a large number of open views, you might notice a decline in performance. Close the views individually by clicking the close box in the top right corner of the workspace. Close all open views by selecting Window > Close All Windows or clicking the Close All Windows icon on the toolbar. Related Topics · General and environment options on page 73 Local object library The local object library provides access to reusable objects. These objects include built-in system objects, such as transforms, and the objects you build and save, such as datastores, jobs, data flows, and work flows. The local object library is a window into your local repository and eliminates the need to access the repository directly.



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Updates to the repository occur through normal software operation. Saving the objects you create adds them to the repository. Access saved objects through the local object library. To control object library location, right-click its gray border and select/deselect Allow Docking, or select Hide from the menu. When you select Allow Docking, you can click and drag the object library to dock at and undock from any edge within the Designer window. When you drag the object library away from a Designer window edge, it stays undocked. To quickly switch between your last docked and undocked locations, just double-click the gray border.

When you deselect Allow Docking, you can click and drag the object library to any location on your screen and it will not dock inside the Designer window. When you select Hide, the object library disappears from the Designer window. To unhide the object library, click its toolbar icon. Related Topics · Advanced Development: Central versus local repository SAP BusinessObjects Data Services Designer Guide 57 3 Designer User Interface Local object library To open the object library · Choose Tools > Object Library, or click the object library icon in the icon bar. The object library gives you access to the object types listed in the following table.

The table shows the tab on which the object type appears in the object library and describes the context in which you can use each type of object. Tab Description Projects are sets of jobs available at a given time. Jobs are executable work flows. There are two job types: batch jobs and real-time jobs. Work flows order data flows and the operations that support data flows, defining the interdependencies between them. Data flows describe how to process a task. Transforms operate on data, producing output data sets from the sources you specify. The object library lists both built-in and custom transforms. Datastores represent connections to databases and applications used in your project. Under each datastore is a list of the tables, documents, and functions imported into the software.

Formats describe the structure of a flat file, XML file, or XML message. 58 SAP BusinessObjects Data Services Designer Guide Designer User Interface Object editors 3 Tab Description Custom Functions are functions written in the software's Scripting Language. You can use them in your jobs. To display the name of each tab as well as its icon 1. Make the object library window wider until the names appear. or 2. Hold the cursor over the tab until the tool tip for the tab appears. To sort columns in the object library · Click the column heading. For example, you can sort data flows by clicking the Data Flow column heading once. Names are listed in ascending order.

To list names in descending order, click the Data Flow column heading again. Object editors To work with the options for an object, in the workspace click the name of the object to open its editor. The editor displays the input and output schemas for the object and a panel below them listing options set for the object. If there are many options, they are grouped in tabs in the editor. A schema is a data structure that can contain columns, other nested schemas, and functions (the contents are called schema elements).

A table is a schema containing only columns. A common example of an editor is the editor for the query transform, as shown in the following illustration: SAP BusinessObjects Data Services Designer Guide 59 3 Designer User Interface Object editors In an editor, you can: · · · · Undo or redo previous actions performed in the window (right-click and choose Undo or Redo) Find a string in the editor (right-click and choose Find) Drag-and-drop column names from the input schema into relevant option boxes Use colors to identify strings and comments in text boxes where you can edit expressions (keywords appear blue; strings are enclosed in quotes and appear pink; comments begin with a pound sign and appear green) Note: You cannot add comments to a mapping clause in a Query transform. For example, the following syntax is not supported on the Mapping tab: table.column # comment The job will not run and you cannot successfully export it. Use the object description or workspace annotation feature instead.

Related Topics · Query editor on page 230 60 SAP BusinessObjects Data Services Designer Guide Designer User Interface Working with objects 3 Working with objects This section discusses common tasks you complete when working with objects in the Designer. With these tasks, you use various parts of the Designer--the toolbar, tool palette, workspace, and local object library. Creating new reusable objects You can create reusable objects from the object library or by using the tool palette. After you create an object, you can work with the object, editing its definition and adding calls to other objects. To create a reusable object (in the object library) 1. 2. 3. 4. Open the object library by choosing Tools > Object Library. Click the tab corresponding to the object type.

Right-click anywhere except on existing objects and choose New. Right-click the new object and select Properties. Enter options such as name and description to define the object. To create a reusable object (using the tool palette) 1. In the tool palette, left-click the icon for the object you want to create. 2. Move the cursor to the workspace and left-click again. The object icon appears in the workspace where you have clicked. To open an object's definition You can open an object's definition in one of two ways: 1. From the workspace, click the object name.

The software opens a blank workspace in which you define the object. 2. From the project area, click the object. SAP BusinessObjects Data Services Designer Guide 61 3 Designer User Interface Working with objects You define an object using other objects. For example, if you click the name of a batch data flow, a new workspace opens for you to assemble sources, targets, and transforms that make up the actual flow.

To add an existing object (create a new call to an existing object) 1. 2. 3. 4. Open the object library by choosing Tools > Object Library.

Click the tab corresponding to any object type. Select an object. Drag the object to the workspace. Note: Objects dragged into the workspace must obey the hierarchy logic. For example, you can drag a data flow into a job, but you cannot drag a work flow into a data flow. Related Topics · Object hierarchy on page 39 Changing object names You can change the name of an object from the workspace or the object library. You can also create a copy of an existing object. Note: You cannot change the names of built-in objects. 1. To change the name of an object in the workspace a.

Click to select the object in the workspace. b. Right-click and choose Edit Name.



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