

IBM Cognos Dynamic Cubes
Version 10.2.0

Installation and Configuration Guide



Note

Before using this information and the product it supports, read the information in "Notices" on page 39.

Product Information

This document applies to IBM Cognos Business Intelligence Version 10.2.0 and may also apply to subsequent releases. To check for newer versions of this document, visit the IBM Cognos Information Centers (<http://publib.boulder.ibm.com/infocenter/cogic/v1r0m0/index.jsp>).

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Introduction

This document is intended for use with IBM® Cognos® Dynamic Cubes. IBM Cognos Dynamic Cubes is used with IBM Cognos Business Intelligence to provide business users and analysts with the ability to model dimensional metadata and to create dynamic cubes to use as data sources in the Content Manager.

Audience

This guide is intended for system administrators. To use this guide, you should have basic Microsoft Windows, UNIX, and Linux administration skills.

Finding information

To find IBM Cognos product documentation on the web, including all translated documentation, access one of the IBM Cognos Information Centers (<http://publib.boulder.ibm.com/infocenter/cogic/v1r0m0/index.jsp>). Release Notes are published directly to Information Centers, and include links to the latest technotes and APARs.

You can also read PDF versions of the product release notes and installation guides directly from IBM Cognos product disks.

Accessibility Features

Accessibility features help users who have a physical disability, such as restricted mobility or limited vision, to use information technology products. IBM Cognos Dynamic Cubes has accessibility features. For information on these features, see the accessibility section in this document.

IBM Cognos HTML documentation has accessibility features. Adobe PDF documents are supplemental and, as such, include no added accessibility features.

Forward-looking statements

This documentation describes the current functionality of the product. References to items that are not currently available may be included. No implication of any future availability should be inferred. Any such references are not a commitment, promise, or legal obligation to deliver any material, code, or functionality. The development, release, and timing of features or functionality remain at the sole discretion of IBM.

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Chapter 1. Components and tools used by IBM Cognos Dynamic Cubes

IBM Cognos Dynamic Cubes adds a relational OLAP component to the Dynamic Query Mode server to provide a multidimensional view of a relational data warehouse. You can then perform OLAP analysis by using the Cognos Dynamic Cubes server.

IBM Cognos Dynamic Cubes integrates easily into your existing infrastructure by using resources that are already in your environment. Some of these existing resources are required, such as a Java virtual machine, or other databases for the content store. The Administration Console is used to deploy and manage the cube data. The dynamic query mode (DQM) server runs the cube data, and studio applications use the data in reporting environments.

In addition, various tools, such as IBM Cognos Cube Designer, provide dynamic cube design and modeling capability. The IBM Cognos Dynamic Query Analyzer is used to analyze and optimize the data as necessary.

Cognos Dynamic Cubes Workflow

The workflow for IBM Cognos Dynamic Cubes consists of five major steps. Users, such as the system analyst administrator, modeler administrator, or report author use various tools to manage and administer these steps.

The following steps are included in the workflow:

- Analyzing the data
Before installing IBM Cognos Dynamic Cubes, the modeler and relational database administrator determine whether the data is a good candidate for IBM Cognos Dynamic Cubes.
- Designing and modeling a dynamic cube
The modeler creates a basic dynamic cube, adds features to satisfy the business requirements, and ensures that the cube is available to IBM Cognos Administration.
- Deploying and managing a dynamic cube
After dynamic cubes are published to Content Manager, the Administrator handles the initial configuration and subsequent management within IBM Cognos Administration.
- Running reports by using dynamic cube data
The report author uses the dynamic cube as a data source in reporting applications.
- Optimizing a dynamic cube
To optimize individual cube performance, the administrator can monitor the metrics of the dynamic cubes, and change, if necessary, the cube configuration.

Server components

Server components provide the user interfaces for reporting and product configuration, including the server functionality for routing and processing user requests. Server components associated with IBM Cognos Dynamic Cubes are organized into the following functional groups: Interfaces, application tier components, and Content Manager components.

Client-based interfaces

The following client-based user interface is available for use with IBM Cognos Dynamic Cubes.

IBM Dynamic Query Analyzer

IBM Cognos Dynamic Query Analyzer is an Eclipse-based client user interface that provides graphical representations for the query logs produced by dynamic query mode queries. In addition, Cognos Dynamic Query Analyzer includes the Dynamic Cubes Aggregate Advisor, a tool that analyzes dynamic cubes and recommends cube aggregation, based on available cube definitions and optional query load, to improve query performance.

Aggregate Advisor can also analyze previously run Business Intelligence reports and suggest aggregates that correspond directly to these reports. For more information, see the *IBM Cognos Dynamic Query Analyzer User Guide*.

Application Tier Components

The IBM Cognos Business Intelligence applications tier contains one or more IBM Cognos BI servers. An IBM Cognos BI server runs requests, such as reports, analyses, and queries, that are forwarded by a gateway. An IBM Cognos BI server also renders the IBM Cognos Connection and studio interfaces. Report authors use the dynamic cubes as data sources in reporting applications.

Configuring and managing the product - IBM Cognos Configuration

IBM Cognos Configuration is a tool that you use to configure IBM Cognos BI, and to start and stop its services.

Publishing, managing, and viewing content - IBM Cognos Connection

IBM Cognos Connection is a Web portal provided with IBM Cognos Business Intelligence, providing a single access point to the corporate data available for its products. It provides a single point of entry for querying, analyzing, and organizing data, and for creating reports, scorecards, and events. Users can run all their Web-based IBM Cognos BI applications through IBM Cognos Connection. Other business intelligence applications, and web addresses to other applications, can be integrated with IBM Cognos Connection.

Central administration - IBM Cognos Administration

IBM Cognos Administration is a central management interface that contains the administrative tasks for IBM Cognos BI. It provides easy access to the overall management of the IBM Cognos environment and is accessible through IBM Cognos Connection.

Viewing and interacting with published content - Cognos Viewer

Cognos Viewer is a portlet in which you can view and interact with any type of published IBM Cognos content. It is accessible through IBM Cognos Connection and any existing enterprise portal.

Professional reporting - Report Studio

Using Report Studio, report authors create, edit, and distribute a wide range of professional reports. They can also define corporate-standard report templates for use in Query Studio, and edit and modify reports created in Query Studio or Analysis Studio.

Ad hoc querying and self-service reporting - Query Studio

Using Query Studio, users with little or no training can quickly design, create and save reports to meet reporting needs not covered by the standard, professional reports created in Report Studio.

Managing Application Data - Content Manager

Content Manager is the IBM Cognos Business Intelligence service that manages the storage of customer application data, including security, configuration data, models, metrics, report specifications, and report output. Content Manager is needed to publish packages, retrieve or store report specifications, manage scheduling information, and manage the Cognos namespace.

Content Manager stores information in a content store database.

Modeling components

Modeling components model data within data sources to structure and present data in a way that is meaningful to users.

Modeling components include the following tools:

Creating a business view of your data - Framework Manager

IBM Cognos Framework Manager is the modeling tool for creating and managing business-related metadata for use in IBM Cognos BI analysis and reporting. Metadata is published for use by reporting tools as a package, providing a single, integrated business view of any number of heterogeneous data sources.

Designing and preparing dynamic cubes - IBM Cognos Cube Designer

IBM Cognos Cube Designer is the modeling tool used to design dynamic, aggregate, and virtual cubes. Relational metadata is imported to use as the basis for dynamic cube design. Individual dynamic cubes are deployed as OLAP data sources to Content Manager in IBM Cognos Business Intelligence.

To work with a deployed cube in the IBM Cognos studios, the modeler must also publish a Framework Manager package for it, configure the deployed cube for use as a data source by the Query Service, and start the cube.

Other components

In addition to the tools that are provided, IBM Cognos Dynamic Cubes requires the following components that are created by using other resources.

Content store

The content store is a relational database that contains data that your IBM Cognos BI product needs to operate, such as report specifications, published models, and the packages that contain them; connection information for data sources; information about the external namespace, and the Cognos namespace itself; and information about scheduling and bursting reports.

Your IBM Cognos BI product includes an embedded database, Cognos Content Database, that you can use to get your product running quickly in a test or proof-of-concept system. When you are ready to set up a production environment with your IBM Cognos BI product, set up the content store to use a supported database that can be secured and tuned for performance and stability. The administration portal provides features that you can use to back up and archive the data from Cognos Content Database before moving to the new content store database in your production environment. For more information, see the topic about deploying the entire content store in the *IBM Cognos Business Intelligence Administration and Security Guide*.

Design models and log files are not stored in the content store.

The IBM Cognos service that uses the content store is named Content Manager.

Data sources

Data sources, also known as query databases, are relational databases, dimensional or OLAP cubes, files, or other physical data stores that can be accessed through IBM Cognos BI. Application Tier Components use data source connections to access data sources.

Chapter 2. Preparing to install IBM Cognos Dynamic Cubes

Before you install IBM Cognos Dynamic Cubes, some preinstallation tasks are required to set up your environment. For example, ensure that you have adequate system resources available, and that IBM Cognos Business Intelligence (BI) software is successfully installed.

Install IBM Cognos Business Intelligence software first to ensure that the product works. This process involves the following tasks:

- Installing one instance of each of the required server components (gateway, Application Tier Components, and Content Manager)
- Installing Framework Manager on the Windows operating system.

After you set up your environment, initially complete only the required configuration tasks so that your installation successfully runs in your environment.

The simplest and quickest way to get your IBM Cognos product to run in your environment is to ensure that a basic installation works before you customize the configuration. For more information, see the *IBM Cognos Business Intelligence Installation and Configuration Guide*.

Use the following checklist to guide you through the setup process:

- Review the Release Notes.
- Review supported environments.
- Verify system requirements.

After you complete these tasks, you can continue with installing IBM Cognos Cube Designer.

Review the Release Notes Before You Install

Before you install your IBM Cognos product, it is important to be aware of all issues that may affect your installation strategy.

There may be late-breaking issues that were not known when this installation guide was created.

Review the Release Notes before you install your product. The Release Notes contains late-breaking information about known issues, and documentation updates and deprecation notices. The Release Notes are available from the first page of the installation wizard or from the product disc. Release Notes updates are also available on the IBM Cognos Customer Center (<http://www.ibm.com/software/data/cognos/customercenter/>).

Supported environments

To ensure that your product works properly, apply all minimum required operating system patches, and use only the supported versions of third-party software.

To review an up-to-date list of supported environments for IBM Cognos products, visit IBM Cognos Customer Center (<http://www.ibm.com/software/data/cognos/customercenter/>). The website provides information about requirements related to the following parts of your environment.

- Operating systems
- Patches or service packs or equivalent
- Web browsers
- Web servers
- Directory servers
- Database servers
- Application servers

Unless otherwise indicated, IBM Cognos products are compatible with later versions of patches/service packs from the versions stated.

It is important to note that the Linux operating system is available in a number of distributions and supports a number of hardware platforms. Ensure that the combination of the operating system and hardware that you are using is supported.

Cognos products and virtualization environments

The IBM virtualization policy (http://www.ibm.com/software/support/virtualization_policy.html) describes IBM support for virtualization environments.

For more information, search supported server virtualization environments by product (<http://publib.boulder.ibm.com/infocenter/prodguid/v1r0/clarity/vesForProduct.html>).

Verify system requirements for IBM Cognos Dynamic Cubes

Use the following tables to check the minimum hardware and software requirements to install and run IBM Cognos Dynamic Cubes. You might require additional resources, such as disk space.

The following tables list the hardware and software requirements for a single computer installation.

To review an up-to-date list of supported environments for IBM Cognos products, visit IBM Cognos Customer Center (<http://www.ibm.com/software/data/cognos/customercenter/>).

Hardware requirements

Table 1. Hardware requirements

Requirement	Specification
RAM	Minimum: 4 to 8 GB per processor
Disk space	A minimum of 2.5 GB of free space is required to install the software, and 1GB of free space on the drive that contains the temporary directory used by IBM Cognos components.

Software requirements

Table 2. Software requirements

Requirement	Specification
Operating system	Windows Linux
Java Runtime Environment (JRE) Libraries	IBM Java 6 SR 10 FP1 is the minimum supported Java version for IBM Cognos Dynamic Cubes. An IBM JRE is installed automatically with IBM Cognos BI on Windows. If you are using an application server, use the JRE that is installed with it, if it is supported in IBM Cognos BI.
Database	The following relational data sources are supported: • IBM DB2[®] • Netezza[®] • Microsoft SQL Server • NCR Teradata • Oracle For the relational data sources, the Dynamic Query Mode requires only that you copy a Type 4 JDBC driver to the appropriate location.
JDBC driver libraries	IBM DB2 Universal Database [™] for Linux, UNIX, and Windows,

JDBC driver files

Table 3. JDBC driver files for common database software

Database software	Driver	Native system libraries
IBM DB2 Universal Database for Linux, UNIX, and Windows	IBM DB2 Universal (Type 4)	None
IBM DB2 for z/OS [®]	IBM DB2 Universal (Type 4)	None
Oracle	Thin driver	None
Microsoft SQL Server 2005	Microsoft SQL Server 2005 JDBC driver 1.1	None

Chapter 3. Installing and configuring IBM Cognos Dynamic Cubes

Dynamic cubes are databases optimized to provide high speed query performance over large data sets of metadata for business intelligence reporting and analysis. The dynamic cubes provide high speed query performance by implementing the following features: using targeted caching (reducing how often queries are issued to the database); aggregate tables (providing levels of aggregation at a higher level than a basic fact table); and multi-pass SQL (improving the performance of retrieving data from the database when the cache is not sufficient).

To run the IBM Cognos Dynamic Cubes software, the Business Intelligence Application Server, Framework Manager software, and IBM Dynamic Query Analyzer must be at version 10.2.0 and installed to the same location as other Business Intelligence Application Tier components and Framework Manager software.

Installation checklist for using the IBM Cognos Dynamic Cubes software

IBM Cognos Dynamic Cubes is used to model dimensional metadata and to create dynamic cubes to use as data sources in the Content Manager. The software includes IBM Cognos Cube Designer for designing dynamic, aggregate, and virtual cubes.

To install the IBM Cognos Dynamic Cubes software, perform the following tasks:

- Upgrade or install version 10.2.0 of the Business Intelligence Server software on a Windows, UNIX, or Linux operating system.
- Upgrade or install version 10.2.0 of the Framework Manager software on computers configured for modeling dynamic cubes.
- Install IBM Cognos Cube Designer.
- Upgrade or install version 10.2.0 of IBM Cognos Dynamic Query Analyzer on a 32-bit or 64-bit computer where the IBM Cognos Business Intelligence Application Tier components are currently installed.
- Enable the 64-bit version of Report Server.
- Configure data connectivity to relational data sources.
- Test the IBM Cognos Cube Designer installation from the Framework Manager software.

64-bit installations

The report server component, included with the Application Tier Components, is provided in both 32-bit and 64-bit versions. Selecting which version you use is done by using IBM Cognos Configuration after installation. By default, the report server component is set to use the 32-bit mode, even on a 64-bit computer. By using the 32-bit mode, you can run all reports, whereas by using the 64-bit mode, you can run only reports created for dynamic query mode for improved report performance.

For more information about configuring the 64-bit report server, see the *IBM Cognos Business Intelligence Installation and Configuration Guide*.

Installing IBM Cognos Cube Designer on a computer with Framework Manager

Use these instructions to install IBM Cognos Cube Designer on computers running the IBM Cognos Framework Manager modeling software.

Framework Manager is available as a 32-bit installation only. It must be installed on a 32-bit computer with a Microsoft Windows operating system.

Procedure

1. If you are installing in a directory with other IBM Cognos Business Intelligence components, stop the IBM Cognos service.
2. Complete one of the following steps:
 - Insert the product disk.
If the installation wizard does not open automatically, go to the operating system directory, and double-click `issetup.exe`.
 - Go to the location where the installation files were downloaded and extracted and then double-click `issetup.exe`.
3. Select the language to use for the installation.
The language that you select determines the language of the user interface. All supported languages are installed. You can change the user interface to any of the installed languages after installation.
4. Accept the defaults on the **Component Selection** page.
5. Follow the directions in the installation wizard to copy the required files to your computer.
If you are installing in a directory that contains other IBM Cognos Business Intelligence components, you are prompted to create backup copies of the files that will be replaced.
6. In the **Finish** page of the installation wizard, complete the following steps:
 - a. If you want to see the log files, click **View** for the appropriate log file.
 - b. If you want to see late-breaking information about the product, select the check box for IBM Cognos Release Notes
 - c. Click **Finish**.

Enabling the 64-bit Version of Report Server

When you use a 64-bit installation of IBM Cognos Business Intelligence and the dynamic query mode, you can use the 64-bit report server. This report server supports only reports created with the dynamic query mode and provides improved report performance.

In a 64-bit installation, the report server component is provided in both 32-bit and 64-bit versions. The default option is 32-bit. To run IBM Cognos Dynamic Cubes, you must enable the 64-bit version of report server using IBM Cognos Configuration.

Procedure

1. Start IBM Cognos Configuration.
2. In the **Explorer** panel, click **Environment**.
3. For the **Report server execution mode**, click the **Value** box and select **64-bit**.
4. From the **File** menu, click **Save**.

Setting up connectivity to relational data sources for the dynamic query mode

For the relational data sources, the dynamic query mode requires access to only the Type 4 Java Database Connectivity (JDBC) drivers and their appropriate license files. The JDBC drivers provide an API that is vendor-independent. This independence allows IBM Cognos web applications to connect to different data sources and retrieve and update data using standard SQL statements. The network protocol used by a particular database converts the JDBC calls directly.

To allow the reporting engine to connect to supported relational databases by using dynamic query mode, you must first install the required Java Database Connectivity (JDBC) driver files. You then copy the Java Archive (.jar) file of the JDBC driver to the directory that is accessible to the web page that will invoke the applet.

Setting up connectivity to DB2 data sources

To connect to DB2 data sources, the dynamic query mode requires access to the IBM DB2 type 4 JDBC driver and its appropriate license file.

About this task

Because Type 4 driver is an independent product, you are not required to install the DB2 software. That is, you are not required to install the DB2 client on the computer where you installed Content Manager.

For the Type 4 JDBC connectivity, you must copy the universal driver and the accompanying license file to your IBM Cognos installation location.

Procedure

1. On the Windows operating system, stop the DB2 services and the HTML Search Server.
2. In the IBM DB2 installation directory of the database that you want to use for the connection, locate the `..\SQLIB\JAVA` directory.
3. Copy the following files to the `c10_installation\webapps\p2pd\WEB-INF\lib` directory.
 - Universal driver file, `db2jcc.jar`
 - License files, based on the IBM DB2 platform
 - DB2 on Linux, UNIX, or Windows, `db2jcc_license_cu.jar`
 - DB2 on z/OS, `db2jcc_license_cisuz.jar`
4. On Windows, restart the DB2 services and the HTML Search Server.
5. Stop and then restart the IBM Cognos service.

Setting up connectivity to Oracle data sources

To connect to Oracle data sources, the IBM Cognos dynamic query mode can use the same Oracle JDBC driver to perform either Type 2 or Type 4 Oracle JDBC connections.

About this task

The type of Oracle JDBC driver depends on the version of Java used with the IBM Cognos BI installation.

Important: When using the dynamic query mode to perform a Type 2 Oracle JDBC connection, you must install the Oracle native libraries.

Procedure

1. On the computer where the Oracle client is installed, go to the ORACLE_HOME/jdbc/lib directory.
2. Locate and copy the following JDBC driver file, based on your Java version, to the *c10_installation*\webapps\p2pd\WEB-INF\lib directory.

Table 4. Oracle JDBC driver files based on the Java version

Java version	JDBC driver file name
1.5	ojdbc5.jar
1.6	ojdbc6.jar

3. Set the following required environment variable for your operating system.

Table 5. Environment variables for Oracle databases

Platform	Oracle environment variable	Value
Linux	LD_LIBRARY_PATH	the directory where the Oracle client ociJDBCXX library is installed, where XX is the version of Oracle
Microsoft Windows	PATH	the directory where the Oracle clientociJDBCXX library is installed, where XX is the version of Oracle

4. Locate the *c10_installation*\v5dataserver\databaseDriverLocations.properties.sample file and rename it to databaseDriverLocations.properties.
5. In a text editor, open the renamed databaseDriverLocations.properties file.
6. Set the **databaseJNIPath** property to the directory that contains the ociJDBCxx library, where xx is the Oracle version.
7. Save the changes and close the file.
8. For changes to take effect, stop and restart the IBM Cognos service.

Setting up connectivity to Netezza data sources

The IBM Cognos dynamic query mode uses the Type 4 JDBC driver to connect to the Netezza databases. You must copy the Netezza JDBC driver file to the appropriate directory on the file system.

Procedure

1. Within the Netezza client installation directory, locate and copy the nzjdbc.jar file to the *c10_installation*\webapps\p2pd\WEB-INF\lib directory.
2. For changes to take effect, stop and restart the IBM Cognos service.

Setting up connectivity to NCR Teradata data sources

To connect to NCR Teradata data sources, the IBM Cognos dynamic query mode uses the Type 4 JDBC driver for NCR Teradata and its required configuration file.

Procedure

1. Within the NCR Teradata installation directory of the database that is used for the connection, locate and copy the `terajdbc4.jar` and `tdgssconfig.jar` files.
2. Paste the files that you copied in step 1 to the `c10_installation\webapps\p2pd\WEB-INF\lib` directory.
3. For changes to take effect, stop and restart the IBM Cognos service.

Setting up connectivity to Microsoft SQL Server data sources

To connect to Microsoft SQL Server data sources, the dynamic query mode requires that you copy the appropriate Java Archive (.jar) file of the JDBC driver to the directory that is accessible to the web page that will invoke the applet. The file that you copy is based on the data source security strategy.

Before you begin

To access data from a SQL Server database by using the Microsoft JDBC Driver for SQL Server, you must have the following components installed on your computer:

- Microsoft JDBC Driver for SQL Server
- Java Runtime Environment

About this task

The file requirements are dependent on the data source security strategy. For nonintegrated security connections that pass the saved signon information, the dynamic query mode requires access to only the Microsoft Type 4 JDBC driver. For integrated security connections that use the service credentials to connect to the data source, the dynamic query mode requires access to both the Microsoft Type 4 JDBC driver and its associated 32-bit or 64-bit authentication dynamic linked library (DLL). The following table lists the type of IBM Cognos BI data source authentication types and the files required to establish a successful connection.

Table 6. Microsoft SQL Server JDBC driver files

IBM Cognos authentication type	JDBC driver file name
No authentication	<code>sqljdbc4.jar</code>
IBM Cognos software service credentials	<code>sqljdbc4.jar</code> <code>sqljdbc_auth.dll</code>
An external namespace	<code>sqljdbc4.jar</code> <code>sqljdbc_auth.dll</code>
The signons of this connection	<code>sqljdbc4.jar</code>

Use the following instructions to configure Microsoft SQL Server integrated security connectivity for use within IBM Cognos BI installed on a Windows 32-bit operating system.

Procedure

1. Download and install the Microsoft SQL Server JDBC driver from the Microsoft website.
2. In the Microsoft SQL Server JDBC driver installation directory, locate and copy the `sqljdbc4.jar` file to the `c10_installation\webapps\p2pd\WEB-INF\lib` directory.

3. Locate the `c10_installation\vd5dataserver\databaseDriverLocations.properties.sample` file and rename it to `databaseDriverLocations.properties`.
4. In a text editor, open the renamed `databaseDriverLocations.properties` file.
5. Set the **databaseJNIPath** property to the location of the `sqljdbc_auth.dll` file. For example, `databaseJNIPath=D:\MSSQL_AUTH`
6. Save the changes and close the file.
7. For changes to take effect, stop and restart the IBM Cognos service.

Testing the installation of IBM Cognos Cube Designer

You can test the installation of the IBM Cognos Cube Designer by verifying that the shortcut appears on the Start menu and it can be accessed from Framework Manager.

Procedure

1. To test the installation from Framework Manager:
 - a. Launch the Framework Manager software.
 - b. From the **Welcome** page, choose to open a project or create one.
 - To open an existing project, click **Open a project**, browse to locate the project folder, select the `.cpf` file, and click **Open**.
 - To create a project, click **Create a new project**.
 - c. From the **Tools** menu, click **Run IBM Cognos Cube Designer**.
2. To test the installation from the **Start** menu, from the Windows **Start** menu, click **Programs > IBM Cognos 10 > IBM Cognos Cube Designer**.

Results

You can test Dynamic Cubes with your Business Intelligence application server by modeling a simple cube (one dimension, one hierarchy, and one measure), publishing it to a data source, and deploying it to a server. For more information, see the *IBM Cognos Dynamic Cubes User Guide*.

Chapter 4. Uninstalling IBM Cognos Cube Designer

Use the Uninstall wizard to remove the IBM Cognos Cube Designer software from the Framework Manager computers.

About this task

It is not necessary to back up the configuration and data files on a Microsoft Windows operating system. These files are preserved during the uninstallation.

Procedure

1. Stop the IBM Cognos services.

Remember: It is important to also stop applications that are related to the IBM Cognos service, such as Framework Manager, IBM Cognos Transformer, or IBM Cognos Connection.

2. From the **Start** menu, click **Programs, IBM Cognos 10, Uninstall IBM Cognos, Uninstall IBM Cognos**.

Tip: IBM Cognos is the default name of the Program Folder that is created during the installation. If you chose another name, go to that folder to find the program.

3. In the Uninstall wizard, select the language of the installation.
4. Select the **IBM Cognos Cube Designer** check box, and click **Next**.
5. Continue following the prompts to complete the uninstallation. The cognos_uninst_log.htm file records the activities that the Uninstall wizard performs while uninstalling files.

Tip: To find the log file, look in the Temp directory.

6. Delete all temporary Internet files.

Results

Uninstalling does not remove any files that changed since the installation, such as configuration and user data files. Your installation location remains on your computer, and you retain these files until you delete them manually.

Chapter 5. IBM Cognos Dynamic Query Analyzer component

Use IBM Cognos Dynamic Query Analyzer as a visualization tool to analyze and troubleshoot the detailed query logs generated by the Java-based query execution mode in IBM Cognos Business Intelligence applications.

Dynamic Query Analyzer provides a graphical environment in which you can understand and analyze queries for further tuning and optimization. You can access and analyze query log files, and you can run reports from a single environment, while still maintaining native access to the supported data sources. You can view the MDX code generated by a query in a friendlier format than if you were examining the log files in a text editor.

These visualizations include cost-based information derived from the query execution. With this information, a report administrator can quickly identify model and query optimizations that can be applied to achieve better performance. The report administrator can also analyze and compare similar report queries to understand differences, anomalies, and process-intensive query behaviors.

Installation on a Windows operating system

For a Microsoft Windows operating system installation, ensure that you have administrator privileges for the Windows computer that you are installing on. Also ensure that your computer has a TEMP system variable that points to the directory where you want to store temporary files. During installation, files from the disk are temporarily copied to this directory.

Java virtual machines

When Dynamic Query Analyzer is first installed, it uses the Java virtual machine that is on your path. If you do not have Java virtual machine, you must define one.

You can specify the path of the virtual machine by defining the DQA.ini file, which is in the Eclipse directory of the Dynamic Query Analyzer installation.

On the Windows operating system, any IBM Cognos 10 installation, including Dynamic Query Analyzer, has a Java virtual machine available in the bin directory under the IBM Cognos 10 installation.

You can refer to the virtual machine that is provided with the installation by using the following command lines:

- Windows 32-bit
-vm ..\..\..\bin\jre\6.0\bin
- Windows 64-bit
-vm ..\..\..\bin64\jre\6.0\bin

The Windows versions of Dynamic Query Analyzer work with any Java 5 or Java 6 virtual machine. The Linux version requires any Java 5 virtual machine.

Installing Dynamic Query Analyzer on a Windows operating system

Install IBM Cognos Dynamic Query Analyzer on a 64-bit or 32-bit application server where the IBM Cognos Business Intelligence Application Tier components are currently installed and configured.

Before you begin

To help you troubleshoot any installation issues, ensure that IBM Cognos BI is installed, configured, and running before you install IBM Cognos Dynamic Query Analyzer.

You must first install and configure Content Manager and then start the IBM Cognos service on at least one Content Manager computer before you configure IBM Cognos Dynamic Query Analyzer. This task ensures that the certificate authority service issues a certificate to the IBM Cognos Dynamic Query Analyzer computer.

About this task

For Windows Vista, Windows 7, or Windows 2008 computers, when you install applications on a x64 (64-bit) Windows system, the default installation location uses the Program Files directory. If you install to this location, ensure that you run IBM Cognos Configuration as an Administrator. Alternatively, you can install the product outside of the Program Files directory. For example, you can change the installation directory to something like C:\IBM\cognos\c10.

Ensure that you have administrator privileges for the Microsoft Windows computer that you are installing on. If you are not an administrator, ask your system administrator to add you to the Administrator group on your computer.

If you are installing the visualization tool in the same directory as IBM Cognos BI and do not stop the IBM Cognos services, you are prompted to do so during the installation. Install in a directory that contains only ASCII characters in the path name. Some servers do not support non-ASCII characters in directory names.

Procedure

1. Insert the IBM Dynamic Query Analyzer CD or go to the location where the installation files were downloaded.
2. If no **Welcome** page is displayed or you are not installing from the CD, go to one of the following directories based on your operating system, and double-click `issetup.exe`.
 - For Windows 32-bit, win32
 - For Windows 64-bit, winx64h
3. Select the language to use for the installation. The language that you select determines the language of the user interface. You can change the language to any of the installed languages after installation.
4. In the **License Agreement** page, select **I Agree** and then click **Next**.
5. Repeat step 3 - 4 for the non-IBM license agreement.
6. In the **Installation Location** page, select the installation directory, such as C:\Program Files\IBM\cognos\c10\, and then click **Next**.

The default location is the same default location as other IBM Cognos Business Intelligence products. You can install Dynamic Query Analyzer to the same location as your other products or to a different location.

7. In the **Component Selection** page, select **Dynamic Query Analyzer Component**, and then click **Next**.
8. Follow the directions in the installation wizard to copy the required files to your computer.
9. In the **Finish** page of the installation wizard, choose whether to view information about the installation:
 - If you want to see the log files, click **View** for the appropriate log file.
 - If you want to see late-breaking information about the product, select the check box for **IBM Cognos Release Notes**.
10. Click **Finish**.

Installing IBM Cognos Dynamic Query Analyzer on Linux

You can install IBM Cognos Dynamic Query Analyzer on a Linux computer.

Before you begin

Ensure that IBM Cognos BI is installed, configured, and running before you install IBM Cognos Dynamic Query Analyzer. This step helps you troubleshoot any installation issues.

You must first install and configure Content Manager and then start the IBM Cognos service on at least one Content Manager computer before you configure IBM Cognos Dynamic Query Analyzer. This process ensures that the certificate authority service issues a certificate to the IBM Cognos Dynamic Query Analyzer computer.

Procedure

1. If you are installing to a directory with other IBM Cognos BI components, stop the IBM Cognos service.
2. If installing from a download, go to the location where the installation files were downloaded and extracted.
3. To start the installation wizard, go to the `linuxi38632` directory and type `./issetup`
4. Follow the directions in the installation wizard and copy the required files to your computer. Install IBM Cognos Dynamic Query Analyzer in a directory that contains only ASCII characters in the path name. Some Linux web servers do not support non-ASCII characters in directory names.

If you are installing in a directory that contains other IBM Cognos BI components, you are prompted to create backup copies of the files that will be replaced.
5. When you are prompted about installing non-English product documentation, click **OK** to continue.
6. In the **Finish** page of the installation wizard, choose whether to view information about the installation:
 - If you want to see the log files, click **View** for the appropriate log file.
 - If you want to see late-breaking information about the product, select the check box for **IBM Cognos Release Notes**.
7. Click **Finish**.

Create a virtual directory to access log files

You must create a virtual directory, or alias, on the IBM Cognos Business Intelligence server to allow Dynamic Query Analyzer to read query log files and workflow log files.

About this task

If you are only using Dynamic Query Analyzer to run the Aggregate Advisor, you do not need to create the virtual directory.

Procedure

Create a virtual directory named **DQLogs** that refers to the `<installation_location>/logs/XQE` location on the server.

- For Apache Web Server or IBM HTTP Server, the directory definition would look like the following example:

```
Alias /DQLogs "<installation_location>/logs/XQE"

<Directory "<installation_location>/logs/XQE">
    Order allow,deny
    Allow from all
    Options +Indexes
</Directory>
```

- For Microsoft Internet Information Services (IIS), enable the Read and Directory Browsing properties for the virtual directory.

Configuring Dynamic Query Analyzer on Windows computers

To configure Dynamic Query Analyzer on Windows computers, specify the location of the IBM Cognos Business Intelligence server that contains the reports that you want to analyze.

Procedure

1. From the **Start** menu, click **Programs > IBM Cognos 10 > IBM Cognos Dynamic Query Analyzer**.
2. Click **Window > Preferences**.
3. In the navigation pane, click **Cognos Server**.
4. If required, change the **Dispatcher URI** to point to the location and port of the IBM Cognos BI server where the Application Tier components are installed.
5. If required, change the **Gateway URI** to point to the location and port used by the web server.
6. If your IBM Cognos Business Intelligence is secured, enter your user name in the **Name** box and password in the **Password** box, and select an appropriate **Namespace**. If you changed server settings, click **Refresh** to get a list of namespaces for the server.
7. If you are using Dynamic Query Analyzer for query log file analysis, perform the following steps.
 - a. In the navigation pane, click **Logs**.
 - b. In the **Logs directory URL** box, enter the path to the virtual directory created in "Create a virtual directory to access log files."
 - c. If the **Logs directory URL** link is secured, enter the required user name in the **Name** box and password in the **Password** box.

8. Test the configuration of Dynamic Query Analyzer.
 - a. In Dynamic Query Analyzer, click **Windows > Show View**.
 - b. In the **Show View** dialog box, click **Navigation > Content Store**, and click **OK**.

If the configuration is correct, in the **Content Store** pane, the IBM Cognos content from the specified server displays.

Configuring Dynamic Query Analyzer on Linux operating systems

To configure Dynamic Query Analyzer on Linux operating systems, specify the location of the IBM Cognos Business Intelligence server that contains the reports that you want to analyze.

Procedure

1. Go to the directory where you installed Dynamic Query Analyzer, and go to the `dqa/linux.gtk.x86/eclipse` directory.
2. If you do not have a path to at least a version 5 Java on your computer, you must edit the `DQA.ini` file to add it.

For example, add the following to your `DQA.ini` file:

```
-vm ../../../../bin/jre/5.0/bin
```

Save and close the file.
3. In the `dqa/linux.gtk.x86/eclipse` directory, type
`./DQA`

The Dynamic Query Analyzer starts.
4. Click **Window > Preferences**.
5. In the navigation pane, click **Cognos Server**.
6. If required, change the **Dispatcher URI** to point to the location and port of the IBM Cognos BI server where the Application Tier components are installed.
7. If required, change the **Gateway URI** to point to the location and port used by the web server.
8. If your IBM Cognos Business Intelligence is secured, enter your user name in the **Name** box and password in the **Password** box, and select an appropriate **Namespace**. If you changed server settings, click **Refresh** to get a list of namespaces for the server.
9. If you are using Dynamic Query Analyzer for query log file analysis, perform the following steps.
 - a. In the navigation pane, click **Logs**.
 - b. In the **Logs directory URL** box, enter the path to the virtual directory created in “Create a virtual directory to access log files” on page 20.
 - c. If the **Logs directory URL** link is secured, enter the required user name in the **Name** box and password in the **Password** box.
10. Test the configuration of Dynamic Query Analyzer.
 - a. In Dynamic Query Analyzer, click **Windows > Show View**.
 - b. In the **Show View** dialog box, click **Navigation > Content Store**, and click **OK**.

If the configuration is correct, in the **Content Store** pane, the IBM Cognos content from the specified server displays.

Uninstalling IBM Cognos Dynamic Query Analyzer

For a Microsoft Windows operating system, use the uninstallation program to remove all IBM Cognos program files. The uninstallation program does not remove configuration and user data files or all the directories. You can manually remove remaining directories after the uninstallation program finishes.

Uninstalling IBM Cognos Dynamic Query Analyzer on Windows operating system

You can uninstall the product on a Windows computer if it is no longer required.

About this task

Complete these steps to uninstall IBM Cognos Dynamic Query Analyzer on a Microsoft Windows operating system.

Procedure

1. From the **Start** menu, click **Programs, IBM Cognos 10, Uninstall IBM Cognos, Uninstall IBM Cognos**.

Tip: IBM Cognos is the default name of the Program Folder that is created during the installation. If you chose another name, go to that folder to find the program.

2. In the Uninstall wizard, select the language of the installation.
3. Select the **IBM Cognos Dynamic Query Analyzer** check box, and click **Next**.
4. Continue following the prompts to complete the uninstallation. The `Cognos_uninst_log.htm` file records the activities that the Uninstall wizard performs while uninstalling files.

Tip: To find the log file, look in the Temp directory.

5. Delete all temporary Internet files.

Results

The process for uninstalling the application does not remove any files that changed since the installation, such as configuration and user data files. Your installation location remains on your computer, and you retain these files until you delete them manually.

Uninstalling IBM Cognos Dynamic Query Analyzer on Linux

Uninstall the product on a Linux operating system if you no longer require IBM Cognos Dynamic Query Analyzer, or if you are upgrading.

Before you begin

Before you uninstall IBM Cognos Dynamic Query Analyzer on a Linux operating system, ensure that you back up any data that you added to the installation directory.

Procedure

1. Stop the IBM Cognos process by completing one of the following steps:
 - If you use X Window System, start **IBM Cognos Configuration**, click **Actions > Stop**.

- If you do not use X Window System, go to the *c10_location/bin* directory, and type `./cogconfig.sh -stop`
2. To uninstall IBM Cognos Dynamic Query Analyzer, go to the *c10_location/uninstall* directory and type one of the following appropriate commands:
 - If you use X Window System, type `./uninst -u`
 - If you do not use X Window System, do a silent uninstallation by typing `./uninst -u -s`
 3. Follow the instructions to complete the uninstallation.
 4. When you are prompted to select the packages that you want to uninstall, select the check box for **IBM Cognos Dynamic Query Analyzer**, and then click **Next**.
 5. Continue following the prompts to complete the uninstallation. The *Cognos_uninst_log.htm* file records the activities that the Uninstall wizard performs while uninstalling files.

Tip: To find the log file, look in the Temp directory.
 6. Delete all temporary Internet files.

Results

Uninstalling does not remove any files that changed since the installation, such as configuration and user data files. Your installation location remains on your computer, and you retain these files until you delete them manually.

Chapter 6. Setting up the samples for IBM Cognos Dynamic Cubes

You can use the sample data to learn how to design and model dynamic cubes and use the data in reporting environments. You can safely use the samples instead of accessing corporate data.

For more information about the samples, see the *IBM Cognos Dynamic Cubes User Guide* and online help.

Before you can use the samples, IBM Cognos Business Intelligence and IBM Cognos Dynamic Cubes must be installed, configured, and running.

Sample Database Models

The IBM Cognos Dynamic Cubes samples are based on the `model.fmd` sample database model. This model refers to the GOSALESDW database that contains sample data that other IBM Cognos products use. In Microsoft SQL Server, the dynamic cube uses the GOSALESDW database. In IBM DB2 and Oracle, the dynamic cube uses a single schema from the database.

This model is available in the `c10_location\webcontent\samples\models\great_outdoors_dynamiccube\data_source_type` directory.

For more information about GOSALESDW, see relevant sections in the *IBM Cognos Business Intelligence Administration and Security Guide*, or the *IBM Cognos Business Intelligence Installation and Configuration Guide*.

Installation of IBM Cognos Dynamic Cubes samples

The IBM Cognos BI samples illustrate product features and technical and business best practices. You can also use them for experimenting with report design techniques, and for troubleshooting.

After you install the IBM Cognos BI samples, the sample database for IBM Cognos Dynamic Cubes is available in the following location: `c10_location/webcontent/samples/datasources/models`.

Installing the IBM Cognos BI samples on a UNIX or Linux computer

Samples for IBM Cognos Dynamic Cubes are available on the IBM Cognos Business Intelligence Samples disk.

About this task

Install the samples on the gateway computer and in the same location as the gateway component. Install in a directory that contains only ASCII characters in the path name. Some servers do not support non-ASCII characters in directory names.

Use the following procedure to install the IBM Cognos Business Intelligence samples on UNIX or Linux operating systems.

Procedure

1. Mount the IBM Cognos product disk using Rock Ridge file extensions or go to the location where the installation files were downloaded.

To mount the IBM Cognos disk on HP-UX, complete the following tasks:

- a. Add the pfs_mount directory in your path. For example,

```
PATH=/usr/sbin/:$PATH
```

```
export PATH
```
 - b. To start the required NFS daemons and run the daemons in the background, type `bg pfs_mountd` and then type `bg pfsd`
 - c. To mount the drive, type

```
pfs_mount -t rrip <device> <mount_dir> -o xlat=unix
```


For example, type `pfs_mount /dev/dsk/c0t2d0 /cdrom -o xlat=unix`
You can now install or copy files as a non-root user using an IBM Cognos disk from this drive.
 - d. When the installation is complete, type `pfs_umount /cdrom` and kill the `pfsd` and `pfs_mountd` daemons to unmount the disk.
2. To start the installation wizard, go to the operating system directory and type `./issetup`

Important: When you use the `issetup` command with X Window System, Japanese characters in messages and log files may be corrupted. When installing in Japanese on UNIX, first set environment variables `LANG=C` and `LC_ALL=C` (where C is the language code; for example, `ja_JP.PCK` on Solaris), and then run an unattended installation.

If you are not using X Window System, run an unattended installation of the samples. For information about the unattended installation, see the *IBM Cognos Business Intelligence Installation and Configuration Guide*.

3. Follow the directions in the installation wizard, and copy the required files to your computer.
Install the samples in the same location as the server components.
4. In the **Finish** page of the installation wizard, click **Finish**.

Installing the IBM Cognos BI samples on a Windows computer

Samples for IBM Cognos Dynamic Cubes are available on the IBM Cognos Business Intelligence Samples disk.

About this task

The IBM Cognos BI samples illustrate product features and technical and business best practices. You can also use them for experimenting with report design techniques, and for troubleshooting.

Use the following procedure to install the IBM Cognos Business Intelligence samples on Microsoft Windows operating systems.

Procedure

1. Insert the Samples disk or go to the location where the installation files were downloaded and extracted.

The **Welcome** page of the installation wizard appears.

2. If no **Welcome** page appears, go to the operating system directory, and double-click the `issetup.exe` file.
3. Select the language to use for the installation.
The language that you select determines the language of the user interface. You can change the language to any of the installed languages after installation.
4. Follow the directions in the installation wizard to copy the required files to your computer.
Install the samples in the same location as the server components.
5. In the **Finish** page of the installation wizard, click **Finish**.
6. Click **Finish**.

Restoration of the samples dynamic cubes

To use the samples, you must restore backup files for the samples dynamic cubes. This action recreates multilingual versions of the samples dynamic cubes.

You must restore the Great Outdoors sales data warehouse sample database (GOSALESDW).

- For Microsoft SQL Server, the database is delivered as a Microsoft SQL Server backup file.
- For Oracle, extract the `GS_DB_ORA.tar.gz` file from `c10_location\webcontent\samples\datasources\oracle`.
The Oracle databases are located in `GS_DB_ORA\data`.
- For DB2, extract the `GS_DB.tar.gz` file from `c10_location\webcontent\samples\datasources\db2`.
The DB2 databases are located in `GS_DB\data`.

For information about the Great Outdoors sales data warehouse samples database and how to restore it, see the samples section in the *IBM Cognos Business Intelligence Administration and Security Guide*, or the *IBM Cognos Business Intelligence Installation and Configuration Guide*.

Considerations for restoring the sample databases

When restoring the samples databases, ensure that the following tasks are completed:

- Give the restored databases the same names as the backup or export file names.
The names are case-sensitive.
Use the correct username and password.
- Create users with select privileges for tables in multiple schemas.
Setup for the GO Data Warehouse packages specifies a single connection object and user signon. This type of setup requires a single user named GOSALESDW with the select privilege to tables in a single schema named GOSALESDW.
- To see reports in multiple languages, use the UTF-8 character set on the Microsoft Windows operating system computer that is the Oracle or DB2 client.
For DB2, you must set the `DB2CODEPAGE` environment variable to a value of 1208. For Oracle, you must set the `NLS_LANG` environment variable to a value that is specific to a region; for example, set `NLS_LANG` for Americas to `American_America.UTF8`.

- Have sufficient disk space available in the target location. Reserve 150 MB for the GO Sales data (four schemas) and 200 MB for the GO Data Warehouse data (one schema).

Considerations for Oracle

To create foreign key constraints in tables that reference different schemas, you must run `gs_or_modify.sql`, found in the same folder as the `.dmp` files.

Considerations for Microsoft SQL Server

If you restore the Microsoft SQL Server backup files, you must use Microsoft SQL Server 2000 or Microsoft SQL Server 2005. Ensure that TCP/IP connectivity is used for the Microsoft SQL Server.

Considerations for DB2

The data files for `db2move` and the scripts, to add constraints, are in the `data` directory. The `data` directory is created when you extract the `GS_DB.tar.gz` file.

If you use WinZip to extract the DB2 move file on a Windows operating system, ensure that the **TAR file smart CR/LF conversion** option is not selected. After extracting the DB2 move file, restore the schemas to a database named `GS_DB`.

Restoring backup files for the samples databases or dynamic cubes

Use this procedure to restore backup files.

Procedure

1. On the computer where IBM Cognos BI is installed, go to the `sql` server, `oracle`, or `db2` directory in `c10_location/webcontent/samples/datasources`.
2. If required, copy the backup files for the samples databases to your database backup directory.
To ensure the security and integrity of IBM Cognos BI, copy the files to a directory that is protected from unauthorized or inappropriate access.
3. Restore the samples databases by using your database management tool.

Remember:

- For SQL Server backup files, restore the database from a device, and ensure that the restore locations are correct for the `.ldf` and `.mdf` database files. For more information, see the Microsoft SQL Server documentation or the IBM Cognos Knowledge Base on the IBM Cognos Customer Center (<http://www.ibm.com/software/data/cognos/customercenter/>).
 - For DB2, when you create the `GS_DB` database, create a buffer pool with a page size of 16 KB and an associated table space.
4. For each database, create at least one user who has select permissions for all the tables in the restored databases.

Results

You can now create the data source connections in the portal.

Creating a data source connection to the sample cubes

You must create a data source connection to the sample dynamic cubes that you restored. IBM Cognos BI uses this information to connect to the cubes and run the sample reports that use the sample dynamic cubes.

Before you begin

Before you create the data source connections, you must ensure that the following tasks are completed:

- Restore the backup file for the samples database.
- Ensure that the IBM Cognos BI service is running.
- Ensure that you have execute permissions for the **Data Source Connections** secured feature, and traverse permissions for the **Administration** secured function. You must have write permissions for the Cognos namespace.
- Set up your database client to access the database instance where you restored the samples.
- The DB2 database name that you type must use uppercase letters. Also, in Framework Manager, the schema names that you type for the DB2 data sources must use uppercase letters.

About this task

You must create connections to the GOSALESDW sample database. This database contains sample data that other IBM Cognos products use. For more information, see the samples information in the *IBM Cognos Administration and Security Guide*, or the *IBM Cognos Business Intelligence Installation and Configuration Guide*.

Procedure

1. Open IBM Cognos Administration.
 - a. Connect to the IBM Cognos BI portal.
 - b. On the **Welcome** page, click **Administer IBM Cognos content**.
2. On the **Configuration** tab, click **Data Source Connections**.
3. Click the new data source icon .
4. In the **Name** box, type `great_outdoors_warehouse` and then click **Next**.
5. In the connection page, from the **Type** list, click the type of database that you restored and want to connect to, select an isolation level, and then click **Next**.
The connection string page for the selected database is displayed.

Important: The user specified must have select privileges on the tables in the GOSALESDW schema.

6. Complete one or more of the following tasks based on the database that you restored:
 - If you restored the samples database in Microsoft SQL Server, in the **Server Name** box, type the name of the server where the restored database is located. In the **Database name** box, type GOSALESDW.
IBM Cognos BI samples require TCP/IP connectivity with Microsoft SQL Server. Ensure that the SQL Server Security is set to SQL Server and Microsoft Windows operating system, instead of Windows Only. The samples use SQL Server security for authentication.

- If you restored the samples databases in Oracle, in the **SQL*Net connect string** box, type the instance name of the Oracle database as it is entered in the `tnsnames.ora` file.
 - If you restored the samples database in DB2, in the **DB2 database name** box, use uppercase letter to type `GS_DB`. Leave the **DB2 connect string** box blank.
7. Under **Signons**, select both the **Password** and **Create a signon that the Everyone group can use** check boxes, type the user ID and password for the user that you created when you restored the database, and then click **Finish**.

Tip: To test whether the parameters are correct, click **Test the connection**.

8. Click **Finish**.

Results

The Great Outdoors data source connection appears as entry in **Data Source Connections**. You can now import the sample dynamic cubes.

Importing the IBM Cognos Dynamic Cubes samples

To use the sample package, you must import it from the sample deployment archive.

About this task

The deployment archive (`IBM_Cognos_DynamicCubes.zip`) that contains the reports that use the dynamic cube is available in the following location: `c10_location/webcontent/samples/`. This archive contains the package that is required for the IBM Cognos Dynamic Cubes samples.

Procedure

1. Copy the zip file from the `c10_location/webcontent/samples/content` directory to the directory where your deployment archives are saved.
The default location is `c10_location/deployment`. The location is set in the configuration tool. For information about changing the location, see the configuration tool online help.
2. Open IBM Cognos Administration.
 - a. Connect to the IBM Cognos BI portal.
 - b. On the **Welcome** page, click **Administer IBM Cognos content**.
3. On the **Configuration** tab, click **Content Administration**.

Important: To access this area in IBM Cognos Administration, you must have the required permissions for the **Administration tasks** secured feature.

4. On the toolbar, click the **New Import** button .
5. In the **New Import** wizard, in the **Deployment Archive** box, select the **IBM_Cognos_DynamicCube** archive, and click **Next**.
6. Type a unique name and an optional description, including a screen tip for the deployment archive, select the folder where you want to save it, and click **Next**.
7. In the **Public Folders Content** box, select the packages and folders that you want to import.

The `IBM_Cognos_Samples` deployment archive has a single folder named **Samples** with subfolders: **Models** and **Sample Template**.

8. Select the options that you want and your conflict resolution choice for options that you select, and click **Next**.
9. In the **Specify the general options** page, select whether to include access permissions and references to external namespaces, and who owns the entries after they are imported, and click **Next**.
10. Review the summary information, and click **Next**.
11. Choose how you want to import the sample deployment:
 - To run once now or later, click **Save and run once**.
Click **Finish**, specify the time and date for the run, then click **Run**. Review the run time and click **OK**.
 - To schedule at a recurring time, click **Save and schedule**.
Click **Finish**, and then select frequency and start and end dates. Click **OK**.

Tip: To temporarily disable the schedule, select the **Disable the schedule** check box.

 - To save without scheduling or running, click **Save only** and click **Finish**.
12. When the import is submitted, click **Finish**.

Deploying the sample dynamic cube

To work with a deployed sample dynamic cube in the IBM Cognos studios, you can use the IBM Cognos Cube Designer to deploy the sample dynamic cube and make it available as a data source.

About this task

You do not have to publish a package to use the sample reports; the package is part of the sample deployment.

Procedure

1. From the **Start** menu, click **Programs > IBM Cognos 10 > IBM Cognos Cube Designer**.
- Tip:** You can also start the IBM Cognos Cube Designer from IBM Cognos Framework Manager. From the **Tools** menu, select **Run IBM Cognos Cube Designer**.
2. Open the project that contains the dynamic cube that you want to deploy and publish.
 - a. From the toolbar, click **Open** .
 - b. Navigate to the folder that matches the data source that you are using; for example, db2 or oracle, and select `model.fmd`.
The default location for the sample files is `c10_location\webcontent\samples\models\great_outdoors_dynamiccube\datasource_type`.
3. In the **Project Explorer** tree, expand the project and model.
4. Right-click the `gosldw_sales` dynamic cube, and select **Publish**.
5. To deploy the dynamic cube and configure the cube as a data source, in the Publish window, expand **Additional Options** and select the **Add the dynamic cube to the default dispatcher** check box.
6. To start the dynamic cube, select the **Start the dynamic cube** check box.
7. Click **OK**.

Results

If the deployment and publish process is successful, no errors are reported. A message confirms that the cubes started successfully. You can now use the sample packages to create reports that rely on dynamic cube data sources. You can also run the sample reports that are available on the **Public Folders** tab in the portal.

Appendix A. Accessibility features

Accessibility features help users who have a physical disability, such as restricted mobility or limited vision, to use information technology products.

See the IBM Accessibility Center (<http://www.ibm.com/able>) for more information about the commitment that IBM has to accessibility.

Keyboard Shortcuts for the Installation Wizard

Keyboard shortcuts, or shortcut keys, provide you with an easier and often faster method of navigating and using software.

The installation wizard uses standard Microsoft Windows operating system navigation keys in addition to application-specific keys.

Note: The following keyboard shortcuts are based on US standard keyboards.

The following table lists the keyboard shortcuts that you can use to perform some of the main tasks in the installation wizard on the Windows operating system.

Table 7. List of keyboard shortcuts on a Windows operating system

To do this	Press
Move to the next field on a page	Tab
Return to the previous field on a page	Shift+Tab
Close the installation wizard	Alt+F4
Move to the next configuration step	Alt+N
Return to the previous configuration step	Alt+B
Move to the next selection in a list	Down arrow
Move to the previous selection in a list	Up arrow

The following table lists the keyboard shortcuts you can use to perform some of the main tasks in the installation wizard on the UNIX or Linux operating system.

Table 8. List of keyboard shortcuts on a UNIX or Linux operating system

To do this	Press
Move to the next field on a page	Tab
Return to the previous field on a page	Shift+Tab
Close the installation wizard	Alt+F4
Move to the next selection in a list	Down arrow
Move to the previous selection in a list	Up arrow

The following table lists the keyboard shortcuts you can use to perform some of the main tasks in the License Agreement page of the installation wizard.

Table 9. List of keyboard shortcuts on the License Agreement page

To do this	Press
Accept the license agreement	Alt+A
Decline the license agreement	Alt+D
Quit the installation wizard	Alt+x

The following table lists the keyboard shortcuts you can use to perform some of the main tasks in IBM Cognos Configuration on a Windows operating system.

Table 10. List of keyboard shortcuts for IBM Cognos Configuration on a Windows operating system

To do this	Press
Save the current configuration	Crtl+S
Close IBM Cognos Configuration	Alt+F4
Rename the selected item	F2
Display the File menu	Alt+F
Display the Edit menu	Alt+E
Display the View menu	Alt+V
Display the Actions menu	Alt+A
Display the Help menu	Alt+H

The following table lists the keyboard shortcuts you can use to perform some of the main tasks in IBM Cognos Configuration on a UNIX or Linux operating system.

Table 11. List of keyboard shortcuts for IBM Cognos Configuration on a UNIX or Linux operating system

To do this	Press
Save the current configuration	Crtl+S
Close IBM Cognos Configuration	Alt+F4
Rename the selected item	F2

Appendix B. Setting up an unattended installation

Set up an unattended installation and configuration when you want to install an identical configuration across several computers on your network or to automate the installation process by specifying options and settings for users.

There are two ways to set up an unattended installation. Both methods use a transfer specification file (.ats) to copy IBM Cognos Dynamic Cubes components to your computer without you being prompted for information.

One method allows you to run the installation wizard on your computer. The selections that you make are recorded in a transfer specification file (.ats). You can use the generated .ats file to perform an unattended installation across other computers on your network. Alternatively, you can use the default response.ats file to automate the installation. The installer uses the values in the response file rather than requiring you to interact with it.

Before you set up an unattended installation and configuration, ensure that all the system requirements and prerequisites are met and that all other software that you need is installed and configured.

To set up an unattended installation and configuration:

- Configure a transfer specification file (.ats) to specify installation options
- Run the installation tool in silent mode

Setting up the installation using a file generated from the installation wizard

You can install IBM Cognos Dynamic Cubes components by using a transfer specification file (.ats) generated from a previous installation.

About this task

By default, each time you install IBM Cognos Dynamic Cubes components using the Installation wizard, the options that you select are recorded in a transfer specification file. Therefore, if you already installed IBM Cognos Dynamic Cubes components on a deployment computer, you can use the generated transfer specification file as a template for unattended installations on different computers. You can use the file as a template by starting the installer from the command line and passing the response file in as an argument.

You can determine whether the unattended installation was successful by checking the return status. A value of zero (0) indicates success, and all other values indicate that an error occurred.

.

Procedure

1. Use the installation wizard to install IBM Cognos Dynamic Cubes components on one computer.
2. Go to `c10_location\instlog` directory.

3. Locate the transfer specification file (.ats) that was generated.
The file name format is `ts-DCUBEMODEL-version-yyyyymmdd_hhmm.ats`.
4. Copy the transfer specification file to the computer where you plan to install IBM Cognos Dynamic Cubes.
5. In a text editor, open the transfer specification file (.ats) that you copied.
6. In the **IBM License Agreement** section, change the **I Agree** property to `y`.
This action means that you are accepting the license agreement. To read the terms of the license agreement, see the `LA_language_code` and `notices` files in either of the following locations:
 - On the product disc, in the root installation directory for the operating system.
 - On the computer from which you copied the `response.ats` file, in the `c10_location\license\product` directory.
7. Save the transfer specification file to a local directory and in the same folder (the directory where you copied the contents of the installation disk) that contains the installer executable file `issetup.exe`.
8. Choose how to install IBM Cognos Dynamic Cubes based on the following operating systems:
 - On Microsoft Windows, insert the IBM Cognos Dynamic Cubes product disc, open a **Command Prompt** window, change to the `win32` directory where you copied the contents of the disk, where the installer `issetup.exe` file is located, and type the following command:
`issetup -s location/filename.ats`
Where *location* is the directory where you saved the transfer specification file.
 - On Linux, open a shell prompt, change to your Linux operating system directory where you copied the contents of the disk; for example, `aix32`, `solaris32`, or `linux38632`, and type the following command:
`./issetup -s location/filename.ats`
Where *location* is the directory where you copied the transfer specification file.
 - On the Linux computer where you do not have X Window System, change to the directory where you copied the contents of the disk, and in the directory for your operating system, type the following command:
`./issetupnx -s location/filename.ats`
Where *location* is the directory where you copied the transfer specification file.

Results

If a return status other than zero (0) is returned, check the log files for error messages. Errors are recorded in the `c10_location\instlog` directory in a summary error log file. The file name format is `t1-DCUBEMODEL-versionyyyyymmdd-hhmm_summary-error.txt`.

If errors occur before sufficient initialization occurs, log messages are sent to `t1-DCUBEMODEL-version-yyyyymmdd-hhmm.txt` log file in the Temp directory.

Setting up the installation using the default transfer specification file

You can install IBM Cognos Dynamic Cubes components by using the default transfer specification file (`response.ats`).

About this task

If you do not use the installation wizard to install components, you can use the default transfer specification file named `response.ats` that is available on the product disc. Use the `response.ats` file to copy IBM Cognos Dynamic Cubes components to several computers without being prompted for information.

You must modify the `response.ats` file for your environment before you can use it for an unattended installation.

You can determine whether the unattended installation was successful by checking the return status. A value of zero (0) indicates success, and all other values indicate that an error occurred.

Procedure

1. On the target computer, insert the IBM Cognos Dynamic Cubes product disc.
2. Go to the directory for your operating system and in a text editor, open the `response.ats` file.

Each section in the `response.ats` file corresponds to a window in the installation wizard.

3. In the **License Agreement** section, change the **I Agree=** property to `y`.
This action means that you are accepting the license agreement. To read the terms of the license agreement, see the `LA_language_code` and `notices` files in the root installation directory for the operating system on the product disc.
4. In the **APPDIR=** *location*, type the installation location of the program files for the IBM Cognos Dynamic Cubes component.
5. For a Windows installation, for the **APPFOLDER=** property, type the name of the **Start** menu folder that contains your program shortcuts.

Tip: To ensure that the shortcut folder is visible to all users, for the **ALLUSERS_FLAG=** property, type `1`.

6. In the section named **[Component List]**, next to each component:
 - To install the component, type `1`.
 - To not install the component, type `0`.

For example, if you require only IBM Cognos Dynamic Cubes, set the value for `DCUBEMODEL_APP` to `1`.

7. Ensure that there are no spaces on either side of the equal sign (=) for all changes set in the transfer specification file.
8. Save the transfer specification file to a local directory.
9. Go to the directory where you saved the transfer specification file.
10. Install IBM Cognos Dynamic Cubes:
 - On Microsoft Windows, insert the product disc, open a command prompt window, change to the `win32` directory on the IBM Cognos Dynamic Cubes product disc, and type the following command:

```
issetup -s location/response.ats
```


Where *location* is the directory where you saved the transfer specification file.
 - On Linux, open a shell prompt, change to your Linux operating system directory on the IBM Cognos Dynamic Cubes product disc; for example, `linux38632`, and type the following command:

```
./issetup -s location/response.ats
```

Where *location* is the directory where you saved the transfer specification file.

- On Linux computer where you do not have X Window System, change to the directory where you copied the contents of the disk, and in the directory for your operating system, type the following command:

```
./issetupnx -s location/response.ats
```

Where *location* is the directory where you saved the transfer specification file.

Tip: To view the status of the installation on the screen, add the `-displayLog` option to the `issetup` or `issetupnx` command.

Results

If a return status other than zero (0) is returned, check the log files for error messages. Errors are recorded in the *c10_location\instlog* directory in a summary error log file. The file name format is *t1-DCUBEMODEL-versionyyyymmdd-hhmm_summary-error.txt*.

If errors occur before sufficient initialization occurs, log messages are sent to the *t1-DCUBEMODEL-version-yyyymmdd-hhmm.txt* log file in the Temp directory.

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