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Introduction

This document is intended for use with IBM® Cognos® Statistics. IBM Cognos Statistics is used with IBM Cognos Business Intelligence to provide business users, analysts, and programmers with the ability to analyze, view, and present complex data.

This document provides step-by-step installation and configuration information.

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 at http://publib.boulder.ibm.com/infocenter/cogic/v1r0m0/index.jsp. Updates to Release Notes are published directly to Information Centers.

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. This product has accessibility features. For information on these features, see the accessibility section in this document.

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.

Samples disclaimer

The Great Outdoors Company, GO Sales, any variation of the Great Outdoors name, and Planning Sample depict fictitious business operations with sample data used to develop sample applications for IBM and IBM customers. These fictitious records include sample data for sales transactions, product distribution, finance, and human resources. Any resemblance to actual names, addresses, contact numbers, or transaction values is coincidental. Other sample files may contain fictional data manually or machine generated, factual data compiled from academic or public sources, or data used with permission of the copyright holder, for use as sample data to develop sample applications. Product names referenced may be the trademarks of their respective owners. Unauthorized duplication is prohibited.
Introduction
Chapter 1: Preparing to Install IBM Cognos Statistics

Before you install IBM® Cognos® Statistics, some pre-installation 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.

The following diagram shows an overview of the complete installation process for IBM Cognos Statistics. Each phase of the process consists of several tasks. Some tasks are mandatory, and other tasks are optional, which allow you to customize your installation. For best results, complete all of the tasks listed in this section.

Use the following checklist to guide you through setting up your environment as you prepare to install.

- Install and configure IBM Cognos BI software.
- Review the release notes before you install.
- Review installation options for IBM Cognos Statistics.
- Install all IBM Cognos Statistics services on the same operating system.
- Review system requirements for IBM Cognos Statistics.
- Review supported environments.
- Configure web browsers.

Install and Configure IBM Cognos BI Software

Install IBM Cognos BI software first ensuring that the product works. This involves

- 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 do only the required configuration tasks so that your installation successfully runs in your environment.

You can then add optional components and customize your configuration settings to better suit your business intelligence needs.
The simplest and quickest way to get your IBM Cognos product running in your environment is to ensure that a basic installation works before you customize the configuration. For more information, see the IBM Cognos BI Installation and Configuration Guide.

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 disk. Release Notes updates are also available on the IBM Cognos Customer Center (www.ibm.com/software/data/cognos/customercenter/).

Installation Options for IBM Cognos Statistics

Before installing IBM® Cognos® Statistics, you must decide which installation option is the best for your environment. You can install

- all IBM Cognos components, including IBM Cognos BI and IBM Cognos Statistics, on one computer.
- IBM Cognos components on multiple computers.
- one or more instances of the IBM Cognos Statistics service.

The best distribution option depends on your reporting requirements, resources, and preferences. Configuration requirements differ depending on whether you install all components on one computer, or on more than one computer. You must configure IBM Cognos Statistics to be part of an IBM Cognos BI installation.

Installation Sequence

The order in which you start component services is important in distributed installation. In this case, you must first start the services on the Content Manager computer.

Content Manager stores and manages IBM Cognos content, including user permissions. Content Manager must be configured, running, and accessible before you configure other computers in your IBM Cognos environment. This ensures that the certificate authority service, which is installed with Content Manager, is available to issue certificates to other IBM Cognos computers.

Install All IBM Cognos Statistics Services on the Same Operating System

IBM® Cognos® Statistics uses floating point for its statistical calculations. Each operating system handles floating point operations differently.
In a distributed installation of IBM Cognos Statistics, if the statistics service runs on different operating systems, a report could show slightly different values for the least significant digits, depending on which statistics service processed the request.

To avoid these types of issues, install all statistics services for a given IBM Cognos installation on the same operating system.

**Review System Requirements for IBM Cognos Statistics**

Review the minimum hardware and software requirements to install and run IBM® Cognos® Statistics. You may require additional resources for larger or production environments.

**Step**

- Use the following table to check the hardware and software requirements to install and run IBM Cognos Statistics.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>Windows®, Linux®, UNIX®</td>
</tr>
<tr>
<td>RAM</td>
<td>Minimum: 2 GB per processor</td>
</tr>
<tr>
<td>Disk space</td>
<td>A minimum of 2.5 GB of free space is required to install the software, and 1 GB of free space on the drive that contains the temporary directory used by IBM Cognos components.</td>
</tr>
</tbody>
</table>

**Review Supported Environments**

To ensure that your product works properly, apply all minimum required operating system patches and use only the versions of other software that are supported for an IBM® Cognos® product.

To review an up-to-date list of environments supported by IBM Cognos products, such as operating systems, patches, browsers, Web servers, directory servers, database servers, and application servers, visit the IBM Cognos Customer Center (www.ibm.com/software/data/cognos/customercenter/).

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.

**Configure Web Browser Settings**

You must enable some settings on the client web browsers before users can see IBM® Cognos® BI web content. For example, you must configure the web browsers to accept cookies.
For information about how to enable settings, see the online help for the web browser.

**Steps**

1. For all web browsers, ensure that both cookies and JavaScript™ are enabled.

2. For Microsoft® Internet Explorer only, ensure that the following are enabled:
   - Run ActiveX controls and plug-ins
   - Script ActiveX controls marked safe for scripting
   - Active scripting
   - Allow META REFRESH
Chapter 2: Installing and Configuring IBM Cognos Statistics

After you install and configure your IBM® Cognos® BI software, install and configure the IBM Cognos Statistics software to extend your reporting capabilities. IBM Cognos Statistics enables report authors to use statistical calculations and create statistical charts in IBM Cognos Report Studio.

The following diagram shows an overview of the complete installation process for IBM Cognos Statistics. After you install IBM Cognos Statistics, you must configure it to communicate with your IBM Cognos BI software.

![Installation and Configuration Process Flow]

Before installing IBM Cognos Statistics, install and configure the mandatory IBM Cognos BI components, which include the gateway, Application Tier Components, and Content Manager. This ensures that the core installation is running before you extend the capability of the reporting environment to include IBM Cognos Statistics. For more information, see the IBM Cognos Business Intelligence Installation and Configuration Guide.

The process for installing IBM Cognos Statistics includes the following steps:

- "Install IBM Cognos Statistics" (p. 11).
- "Configuring IBM Cognos Statistics" (p. 13).
- "Securing IBM Cognos Statistics" (p. 15).
- "Test the Installation of IBM Cognos Statistics" (p. 18).
- "Managing IBM Cognos Statistics" (p. 18).

Install IBM Cognos Statistics

Install IBM® Cognos® Statistics to enable report authors to perform statistical calculations and generate statistics-based charts in IBM Cognos Report Studio.

IBM Cognos Statistics and some IBM Cognos server components are available for installation on 64-bit systems.

Ensure that IBM Cognos BI is installed, configured, and running before you install IBM Cognos Statistics. This will help 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 Statistics. This ensures that the certificate authority service issues a certificate to the IBM Cognos Statistics computer.

**Steps for UNIX or Linux**

1. Mount the IBM Cognos BI product disk or go to the directory where the installation files were downloaded and extracted.

   If you are installing on HP-UX, mount the product disk with Rock Ridge file extensions and do the following:
   - Add the pfs_mount directory in your path. For example,
     ```
     PATH=/usr/sbin/:$PATH
     export PATH
     ```
   - To start the required NFS daemons and run the daemons in the background, type `bg pfs_mountd` and then type `bg pfsd`
   - To mount the drive, type
     ```
     pfs_mount -t rrip <device><mount_dir> -o xlat=unix
     ```
     For example,
     ```
     pfs_mount -t rrip /dev/dsk/c0t2d0 /cdrom -o xlat=unix
     ```
     You can now install or copy files as a non-root user using an IBM Cognos CD from this drive.
   - When the installation is complete, type `pfs_umount /cdrom` and kill the pfsd and pfs_mountd daemons to unmount the CD.

2. Go to the directory that is appropriate for your operating system and start the installation by typing `/issetup`

3. In the Welcome page, select the language to use for the installation, and click Next.

4. Follow the instructions to copy the required files.

   You can install the files in the same location as other IBM Cognos components, or in a different location. If you are installing into the same directory as other IBM Cognos components, you are prompted to stop the services before proceeding.

If you installed IBM Cognos Statistics on the same computer and in the same location as other IBM Cognos BI server components, no additional configuration in IBM Cognos Configuration is required. However, if you installed IBM Cognos Statistics in a location where no other IBM Cognos BI server components are installed, additional configuration is required (p. 13).

**Steps for Windows**

1. Go to the directory where the installation files were downloaded and extracted and double-click the issetup.exe file.
If you are installing from media, the installation wizard starts automatically from the product disk.

2. In the **Welcome** page, select the language to use for the installation, and click **Next**.

3. Follow the instructions to copy the required files.
   
   You can install the files in the same location as other IBM Cognos components, or in a different location.

If you installed IBM Cognos Statistics on the same computer and location as other IBM Cognos BI server components, no additional configuration in IBM Cognos Configuration is required.

However, if you installed IBM Cognos Statistics in a location where no other IBM Cognos BI server components are installed, additional configuration is required. For more information, see "Configure IBM Cognos Statistics to Communicate with IBM Cognos BI Server Components" (p. 13).

## Configuring IBM Cognos Statistics

After IBM® Cognos® Statistics is installed, ensure that the **Statistics service enabled** property appears in the list of **IBM Cognos services** under the **Environment** category in IBM Cognos Configuration. This verifies that the statistics service is installed correctly.

Then, you can perform the required configuration tasks. For example, if you installed IBM Cognos Statistics on the same computer as other IBM Cognos BI components, you must restart the services using IBM Cognos Configuration to register the statistics service. You must also configure security to grant the appropriate user capabilities to the report authors who will be using the statistical functions (p. 15).

Use the following checklist to guide you through the configuration tasks:

- "Configure IBM Cognos Statistics to Communicate with IBM Cognos BI Server Components" (p. 13).
- "Start the IBM Cognos Service" (p. 14).
- "Use SPSS-supported Content Languages in IBM Cognos BI" (p. 14).

## Configure IBM Cognos Statistics to Communicate with IBM Cognos BI Server Components

If you installed IBM® Cognos® Statistics on a computer that is separate from other BI server components, you must use IBM Cognos Configuration to configure the statistics service to communicate with IBM Cognos BI server components.

If you installed IBM Cognos Statistics in the same location as other IBM Cognos BI server components, configuring environment properties for your installation is not required. However, you must restart the services in IBM Cognos Configuration to register and start the statistics service.

### Steps

1. On the computer where you installed IBM Cognos Statistics, start IBM Cognos Configuration.
2. In the Explorer window, click Environment.

3. Specify the value for the External dispatcher URI.
   The URI usually corresponds to the location of a dispatcher on a computer where the Application Tier components are installed.

4. If you installed more than one Content Manager, you must list all Content Manager URIs in the Content Manager URI value box.

5. In the Explorer window, under Cryptography, click Cognos, the default cryptographic provider.

6. Under the Certificate Authority settings property group, for the Password property, type the same password that you configured on the default active Content Manager computer.

7. From the File menu, click Save.

IBM Cognos Statistics is configured to communicate with other components of IBM Cognos BI software. By default, the new statistics service, which runs under the IBM Cognos service configuration resource in IBM Cognos Configuration, is enabled.

**Start the IBM Cognos Service**

You must start the IBM® Cognos® services, including the statistics service to complete the installation.

If you installed IBM Cognos Statistics in the same location as other server components, ensure that the services on the Content Manager computer are running before you start the statistics service.

**Steps**

1. In IBM Cognos Configuration, save your configuration.

2. Test the configuration.
   - From the Actions menu, click Test.
   - If Test is not available for selection, in the Explorer window, click Local Configuration, and then from the Actions menu, click Test.

3. If the test fails, reconfigure the affected properties and then test again.

4. From the Actions menu, click Start.
   It may take a few minutes for the IBM Cognos service to start.
   This action starts all installed services that are not running. If you want to start a particular service, select the service node in the Explorer window and then click Start from the Actions menu.

**Use SPSS-supported Content Languages in IBM Cognos BI**

IBM® Cognos® Statistics is powered by IBM SPSS. The Statistics output in Report Studio contains mainly SPSS-rendered output; however, it may also contain the IBM Cognos Business Intelligence (BI) output rendered by the report server (RSVP) or Custom Content Provider (CCP).
The language of the SPSS-rendered output is based on the SPSS locale setting OLANG, and the RSVP/CCP-rendered output is based on the IBM Cognos BI content language. Not all IBM Cognos content languages are supported by SPSS. Therefore, a locale map is used to associate the locales in both environments. English is the default for non-supported locales.

When IBM Cognos BI is configured to use a content language that is not supported by SPSS, IBM Cognos Statistics may produce output in mixed languages. To avoid that, set the content language in IBM Cognos BI to one of the following SPSS-supported languages:

- English
- French
- German
- Italian
- Japanese
- Korean
- Spanish
- Simplified Chinese
- Traditional Chinese

You specify the IBM Cognos BI content language in IBM Cognos Connection. From My Area Options, click My Preferences, and on the General tab, choose the required Content language.

---

**Securing IBM Cognos Statistics**

Administrators control access to different administration tasks and different functional areas of the user interface in IBM® Cognos® products, such as statistical functions in Report Studio.

Depending on the permissions for the secured functions and features, users, such as report authors, can access specific components and perform specific tasks in the IBM Cognos BI environment.

To secure access to statistical functions in Report Studio, an administrator must perform the following steps:

- "Add Members to the Statistics Authors Role" (p. 15).
- "Set Access to IBM Cognos Statistics Secured Functions and Features" (p. 16).

---

**Add Members to the Statistics Authors Role**

Using IBM® Cognos® Administration, add the appropriate report authors to the Statistics Authors role.
To administer users, groups, and roles, you must have execute permissions for the Users, Groups, and Roles secured feature, and traverse permissions for the Administration secured function. For more information, see the IBM Cognos Administration and Security Guide.

**Steps**

1. In IBM Cognos Connection, from the Launch menu in the upper-right corner, click IBM Cognos Administration.


3. Click on the Cognos namespace.

4. In the Actions column, click the properties icon for the Statistics Authors role.

5. Click the Members tab.

6. To add members, click Add and do the following:
   - To choose from listed entries, click the appropriate namespace.
   - To search for entries, click the appropriate namespace and then click Search. In the Search string box, type the phrase you want to search for. For search options, click Edit. Find and click the entry that you want.
   - To type the name of entries that you want to add, click Type and type the names of groups, roles, or users using the following format, where a semicolon (;) separates each entry:
     namespace/group_name;namespace/role_name;namespace/user_name;
     Here is an example: Cognos/Authors;LDAP/scarter;

7. Click the right-arrow icon, and when the entries that you added appear in the Selected entries box, click OK.

   To remove entries from the Selected entries list, select them and click Remove. To select all entries in a list, click the check box in the upper-left corner of the list. To make the user entries visible, click Show users in the list.

8. Click OK.

9. Ensure that you remove the Everyone group from the Statistics Authors role to restrict access.

The Statistics functionality in Report Studio is now visible.

**Set Access to IBM Cognos Statistics Secured Functions and Features**

The administrator must secure statistical calculations that are available to report authors in IBM® Cognos® Report Studio to ensure that only the required users, groups, and roles have access.

Administrators can set up access to the secured functions and features using the Capabilities page on the Security tab in IBM Cognos Administration.
You must have the required permissions to change the user, group, and role capabilities.

**Steps**

1. In IBM Cognos Connection, from the **Launch** menu in the upper-right corner, click **IBM Cognos Administration**.

2. On the **Security** tab, click **Capabilities**.
   
   A list of available secured functions appears.

3. Next to the **Statistics** function, click the actions icon and click **Set properties**.

4. In the **Set Properties - Statistics** dialog box, click the **Permissions** tab, and choose whether to use the permissions of the parent entry or specify different permissions:
   - To use the permissions of the parent entry, clear the **Override the access permissions acquired from the parent entry** check box, and click **OK**.
   - To set access permissions explicitly for the entry, select the **Override the access permissions acquired from the parent entry** check box, and then perform the remaining steps.

5. If you want to remove an entry from the list, select the appropriate check box, and click **Remove**.
   
   **Tip:** To select or deselect all entries in a page, click **Select all** or **Deselect all** at the bottom of the list.

6. If you want to add new entries to the list, click **Add** and choose how to select entries:
   - To choose from listed entries, click the appropriate namespace, and then select the check boxes next to the users, groups, or roles.
   - To search for entries, click **Search** and in the **Search string** box, type the phrase that you want to search for. For search options, click **Edit**. Find and click the entry.
   - To type the name of entries that you want to add, click **Type** and type the names of groups, roles, or users using the following format, where a semicolon (;) separates each entry:
     
     namespace/group_name;namespace/role_name;namespace/user_name;
     
     Here is an example: Cognos/Authors;LDAP/scarter;

7. Click the right-arrow icon and when the entries that you want to add appear in the **Selected entries** box, click **OK**.

8. Select the check box next to the entry for which you want to set access to the function or feature.

9. In the box next to the list, select the proper check boxes to grant execute permissions for the entry, and click **Apply**.
   
   In the **Permissions** column, an icon that denotes the execute permissions granted appears next to the namespace, user, group, or role.

10. Repeat steps 8 to 9 for each entry, and click **OK**.
Test the Installation of IBM Cognos Statistics

Test the installation of IBM® Cognos® Statistics to ensure that you can use the statistical functions in IBM Cognos Report Studio.

Statistical functions are available to IBM Cognos Report Studio users if

- the statistics service is configured correctly and registered in Content Manager.
- the administrator granted the user the Statistics and Report Studio capabilities in IBM Cognos Administration.

Ensure that you first test the startup configuration in IBM Cognos Configuration. By default, the statistics service is enabled.

**Steps**

1. Open a web browser.

2. Type the following, where ibmcognos is the virtual directory that you created when you configured the web server:

   http://host_name:port/ibmcognos

   It may take a few minutes for the web page to open. If you see the Welcome page of IBM Cognos Connection, your IBM Cognos BI installation is working.

3. On the Welcome page, click Author advanced reports, or from the Launch menu, click IBM Cognos Report Studio.

   *Note:* Before you can use Report Studio, a package must be available. For more information about sample packages, see “Setting up the Samples for IBM Cognos Statistics” (p. 21).

4. Select a package.

5. Click Create a new report or template.

   You should see Statistics listed as a report object.

   If you do not see Statistics listed, ensure that the statistics service is enabled and started in IBM Cognos Configuration.

   You can start using the statistical functions available in Report Studio. To learn more about them, see the Report Studio online help.

Managing IBM Cognos Statistics

After IBM® Cognos® Statistics is installed and configured as part of the IBM Cognos BI environment, an administrator uses IBM Cognos Administration to monitor the performance and to administer the statistics service, similar to other services that run under a dispatcher.

The statistics service performs the statistical calculations and produces the statistical charts in reports.

For more information, see the IBM Cognos Administration and Security Guide.
Uninstall IBM Cognos Statistics
Uninstall the product if you no longer require IBM® Cognos® Statistics, or if you are upgrading.

Steps
1. From the Start menu, click Programs, IBM Cognos 10, Uninstall IBM Cognos.
   The Uninstall wizard appears.
   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. Follow the prompts to begin the uninstallation.
3. When you are prompted to select the packages that you want to uninstall, select the check box for IBM Cognos Statistics, and then 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.
   For more information, see your web browser documentation.
   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.
You can use the sample data to learn how to create statistical calculations and charts in IBM Cognos Report Studio, and to learn some basic techniques to identify hidden trends and patterns in the data. You can safely use the samples instead of accessing corporate data.

The statistical functionality shown in the samples is highly sensitive to the right type of data, and it answers a specific statistical question. You must know which functions are appropriate for the data sets to ensure that the results are valid.

For more information about the samples, see the Report Studio User Guide and online help.

Before you can use the samples, IBM Cognos BI, including Framework Manager and IBM Cognos Statistics, must be installed, configured, and running.

To set up the samples, do the following:

- "Install the IBM Cognos BI Samples" (p. 22).
- "Restore the Samples Databases" (p. 23).
- "Create a Data Source Connection to the Samples Databases" (p. 25).
- "Import the Samples Content" (p. 27).

After you complete these tasks, the samples are ready to use.

Sample Database Models

The statistical samples are based on the following sample database models:

- statisticscpf
  This model refers to the CSTATD sample database that contains the sample statistical data. This model is available in the c10_installation_location\webcontent\samples\models\statistics directory.

- great_outdoors_warehouseCPF
  This model refers to the GOSALES DW database that contains sample data that other IBM Cognos products use. Some of the statistical reports reference data from this database. This model is available in the c10_installation_location\webcontent\samples\models\great_outdoors_warehouse directory.

For more information about the GOSALES DW sample database, see relevant sections in the IBM Cognos Administration and Security Guide, or the IBM Cognos BI Installation and Configuration Guide.
Install the IBM Cognos BI Samples

Samples for IBM® Cognos® Statistics are available on the IBM Cognos Business Intelligence Samples disk.

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 Statistics is available in the following location: c10_installation_location\webcontent\samples\datasources\database_type.

Steps for UNIX and Linux

1. 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.

2. 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, do the following:
   - Add the pfs_mount directory in your path.
     For example,
     \n     PATH=/usr/sbin/:$PATH
     export PATH
   - To start the required NFS daemons and run the daemons in the background, type bg pfs_mountd and then type bg pfsd
   - 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.
   - When the installation is complete, type pfs_umount /cdrom and kill the pfsd and pfs_mountd daemons to unmount the disk.

3. To start the installation wizard, go to the operating system directory and type
   ```
   ./issetup
   ```
   **Note:** When you use the issetup command with XWindows®, 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.
4. Follow the directions in the installation wizard and copy the required files to your computer. Install the samples in the same location as the gateway component.

5. In the Finish page of the installation wizard, click Finish.

**Steps for Windows**

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.

   Use the Microsoft® Windows® Start menu to start IBM Cognos Configuration from the shortcut folder.

   You can now "Restore the Samples Databases" (p. 23).

**Restore the Samples Databases**

To use the samples, you must restore backup files for the samples databases. This action re-creates multilingual versions of the samples database.

You must restore the CSTATD and GOSALESdw samples databases.

The following table shows the statistics sample database for each supported database type:

<table>
<thead>
<tr>
<th>Database type</th>
<th>Database file name</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB2®</td>
<td>CSTATD.tar.gz</td>
</tr>
<tr>
<td>Oracle</td>
<td>CSTATD.DMP.gz</td>
</tr>
<tr>
<td>Microsoft® SQL Server</td>
<td>CSTATD.zip</td>
</tr>
</tbody>
</table>
For information about the GOSALES DW samples database, see the samples section in the IBM Cognos Administration and Security Guide, or the IBM Cognos BI Installation and Configuration Guide.

**Steps for DB2**

1. Use the UTF-8 character set on the Microsoft Windows computer that is the DB2 client to see reports in multiple languages.
   
   **Tip:** You must set the DB2CODEPAGE environment variable to a value of 1208.

2. Create a database named CSTATD that uses the UTF-8 character set.
   
   Set the DB2CODEPAGE environment variable to a value of 1208.

3. Create a buffer pool with a page size of 16 KB and specify a regular tablespace for it.

4. On the computer where the IBM Cognos samples are installed, go to the db2 directory located in $c10_location/webcontent/samples/datasources and locate the CSTATD.tar.gz file.

5. Extract the DB2 move file using either the `gnutar -xcvf DB2_move_filename` or `tar -xcvf DB2_move_filename` command.

6. Go to the CSTATD directory.

7. Use the DB2 move command to restore the CSTATD database.
   
   For example, type `db2move CSTATD import -u username -p password`
   
   When restoring the database, ensure that you have sufficient disk space available in the target location.

8. Create or use existing users with select privileges for the tables in the database.

**Steps for Oracle**

1. Use the UTF-8 character set on the Windows computer that is the Oracle client to see reports in multiple languages.
   
   **Tip:** 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.

2. On the computer where the IBM Cognos samples are installed, go to the oracle directory located in $c10_location/webcontent/samples/datasources and locate the CSTATD dmp.gz file.

3. Extract the file and copy the extracted dmp file to the computer where Oracle is installed.

4. In your Oracle instance, create a 50 MB tablespace for the dmp file.

5. Create a user named CSTATD.
   
   The user name you use will create a schema of the same name (CSTATD) for the dmp file.

6. Add the DBA role for the user.

7. Import the dmp file to the tablespace.
On the computer where Oracle is installed, use the following command to import the database content:

```
imp user/password@instance
```

For example, if you created a CSTATD user with a password of CSTATD and your database instance is named COG_SAMPLES, the command would look like:

```
imp CSTATD/CSTATD@COG_SAMPLES
```

8. When prompted, type the name of dmp file that you are importing. For example, CSTATD.dmp

9. Ensure that you type Yes when you are prompted to import the entire export file. You can accept the defaults for the other prompts.

**Steps for Microsoft SQL Server**

1. On the computer where the IBM Cognos BI samples are installed, go to following location: `c10_location/webcontent/samples/datasources/sqlserver/CSTATD.zip`.

2. If required, copy the backup files for the samples databases to the Microsoft SQL Server database backup directory.

3. Restore the database using the database management tool.

   **Tip:** 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.

4. Create at least one user who has select permissions for all the tables in the restored databases.

   You can now "Create a Data Source Connection to the Samples Databases" (p. 25).

**Create a Data Source Connection to the Samples Databases**

You must create a data source connection to the IBM® Cognos® Statistics sample database that you restored. IBM Cognos BI uses this information to connect to the database and run the sample reports or use the sample package.

You must create connections to the following sample databases:

- **CSTATD**
  
  This is the Statistics sample database.

- **GOSALESDW**
  
  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 BI Installation and Configuration Guide.

Before you create the data source connections, you must:

- Restore the backup file for the samples database (p. 23).
Steps
1. Log on to IBM Cognos Connection by clicking Administer IBM Cognos Content in the Welcome page.
2. Click the Configuration tab.
3. Click the new data source icon.
4. In the Name box, type statistics, and then click Next.
5. In the connection page, from the Type list, click the required type of database, select an isolation level, and then click Next.
   The connection string page for the selected database appears.
   Tip: The user specified must have select privileges on the tables in the CSTATD schema.
6. Do one of the following:
   ● If you restored the samples databases in Microsoft® SQL Server, in the Server Name box, type the name of the server where the restored databases are located. In the Database name box, type CSTATD.
   IBM Cognos BI samples require TCP/IP connectivity with Microsoft SQL Server. Ensure the SQL Server Security is set to SQL Server and Windows®, 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 Oracle connection string.
   ● If you restored the samples database in DB2®, in the DB2 database name box, type CSTATD using uppercase letters. In the DB2 connect string box, type the DB2 connection string.
7. Under Signons, select the both 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 databases, and then click Finish.
   Tip: To test whether the parameters are correct, click Test the connection.
8. Click Finish.

The IBM Cognos Statistics data source connection appears as an entry in the Data Source Connections page.

You can now import the sample content from the statistical data archive (p. 27). You do not need to import any sample content for the GOSALES DW database.
Import the Samples Content

To use the sample packages and other content, you must import them from the sample deployment archive. Reports that show insight into the distribution and shape of data, statistical process control charts, and data analysis and testing, are available when you deploy the samples.

The deployment archive that contains the statistical data is available in the following location: `c10_installation_location/webcontent/samples/content/IBM_Cognos_Statistics.zip`. This archive contains all packages that are required for the statistical samples.

Before you import the deployment archives, you must:

- Restore the sample database (p. 23).
- Create one or more named users with select permissions for the database tables.
- Create a data source connection to the sample database (p. 25).

Steps

1. Copy the `IBM_Cognos_Statistics.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 IBM® Cognos® Configuration. For information about changing the location, see the configuration tool online help.

2. Open IBM Cognos Administration by connecting to the IBM Cognos BI portal and clicking Administer IBM Cognos Content on the Welcome page.

3. On the Configuration tab, click Content Administration.

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

4. On the toolbar, click the new import icon.

   The New Import wizard appears.

5. In the Deployment Archive box, select IBM_Cognos_Statistics, and click Next.

6. Type a unique name, and an optional description and a screen tip for the deployment archive, select the folder where you want to save it, and then click Next.

7. In the Public Folders Content box, select the packages and folders that you want to import.

8. Select the options you want, and your conflict resolution choice for options that you select, and then click Next.

9. In the Specify the general options page, select whether to include access permissions and references to external namespaces, and who should own the entries after they are imported, and then click Next.

10. Review the summary information, and click Next.

11. Select the action that you want:
Chapter 3: Setting up the Samples for IBM Cognos Statistics

- 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**.

You can now use the sample packages to create statistical reports and charts in Report Studio. You can also run the sample reports that are available on the Public Folders tab in the portal.
Appendix A: 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 in 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>
<thead>
<tr>
<th>To do this</th>
<th>Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>Move to the next field on a page</td>
<td>Tab</td>
</tr>
<tr>
<td>Return to the previous field on a page</td>
<td>Shift+Tab</td>
</tr>
<tr>
<td>Close the installation wizard</td>
<td>Alt+F4</td>
</tr>
<tr>
<td>Move to the next configuration step</td>
<td>Alt+N</td>
</tr>
<tr>
<td>Return to the previous configuration step</td>
<td>Alt+B</td>
</tr>
<tr>
<td>Move to the next selection in a list</td>
<td>Down arrow</td>
</tr>
<tr>
<td>Move to the previous selection in a list</td>
<td>Up arrow</td>
</tr>
</tbody>
</table>

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>
<thead>
<tr>
<th>To do this</th>
<th>Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>Move to the next field on a page</td>
<td>Tab</td>
</tr>
<tr>
<td>Return to the previous field on a page</td>
<td>Shift+Tab</td>
</tr>
<tr>
<td>Close the installation wizard</td>
<td>Alt+F4</td>
</tr>
<tr>
<td>Move to the next selection in a list</td>
<td>Down arrow</td>
</tr>
<tr>
<td>Move to the previous selection in a list</td>
<td>Up arrow</td>
</tr>
</tbody>
</table>
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>
<thead>
<tr>
<th>To do this</th>
<th>Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accept the license agreement</td>
<td>Alt+A</td>
</tr>
<tr>
<td>Decline the license agreement</td>
<td>Alt+D</td>
</tr>
<tr>
<td>Quit the installation wizard</td>
<td>Alt+x</td>
</tr>
</tbody>
</table>
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