Version 2 Release 2

DB2 Administration Solution Pack for z/OS
User's Guide

IBM
Note:
Before using this information and the product it supports, read the "Notices" topic at the end of this information.
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About this information

DB2® Administration Solution Pack Overview and Customization Guide is a product that combines a number of IBM components into a consolidated solution to help you manage your DB2 for z/OS environment. These topics provide an overview of the components and capabilities that are included with DB2 Administration Solution Pack Overview and Customization Guide as well as common usage scenarios to help you understand the capabilities of this product. These topics also include post-SMP/E customization instructions that must be performed before the solution pack can be used.

What to put in this topic:

This topic is required. Use this topic to describe the purpose of the information, not the product.

These topics provide instructions for installing, configuring, and using DB2 Administration Solution Pack Overview and Customization Guide.

These topics are designed to help database administrators, system programmers, application programmers, and system operators perform these tasks:

• Plan for the installation of DB2 Administration Solution Pack Overview and Customization Guide
• Install and operate DB2 Administration Solution Pack Overview and Customization Guide
• Customize your DB2 Administration Solution Pack Overview and Customization Guide environment
• Diagnose and recover from DB2 Administration Solution Pack Overview and Customization Guide problems
• Design and write applications for DB2 Administration Solution Pack Overview and Customization Guide
• Use DB2 Administration Solution Pack Overview and Customization Guide with other DB2 or IMS products

Always check the DB2 Tools Product Documentation page for the most current version of this information:

http://www.ibm.com/software/data/db2imstools/db2tools-library.html
DB2 Administration Solution Pack overview

IBM® DB2 Administration Solution Pack for z/OS® (also referred to as DB2 Administration Solution Pack) consists of a number of IBM components that have been combined into a consolidated solution that enables enterprises to simplify database administration and day-to-day DBA tasks, compare database objects and generate reports that show the differences between the objects, manage and track changes to DB2 objects, and view and modify DB2 tables.

What is DB2 Administration Solution Pack?

DB2 Administration Solution Pack is a set of functionally compatible components that help you to perform change management tasks, to work with DB2 tables and table spaces, to efficiently configure DB2 databases and clients, and to generally manage your DB2 for z/OS environment.

IBM DB2 Administration Tool for z/OS

DB2 Administration Tool helps you with the day-to-day tasks that are associated with managing DB2 environments efficiently and effectively. DB2 Administration Tool simplifies the complex tasks that are associated with safely managing DB2 objects and schema throughout the application lifecycle and does so with the least possible impact to availability. DB2 Administration Tool provides the following capabilities:

- Navigate the DB2 catalog quickly and easily
- Builds and runs dynamic SQL statements without requiring you to know the exact SQL syntax
- Manages and tracks changes that are made to DB2 object definitions, resolving any potential conflicts before execution
- Helps build DB2 commands to run against databases and tables
- Builds and runs utility jobs, which allows you to take advantage of LISTDEFs and TEMPLATES for increased productivity
- Create, alter, migrate, drop, and reverse engineer DB2 objects

IBM DB2 Object Comparison Tool for z/OS

DB2 Object Comparison Tool enables you to identify the structural differences that exist between two DB2 catalogs, DDL, or version files. Identifying these differences is key for effective change management. DB2 Object Comparison Tool also generates the jobs that are required to apply the changes to align the catalogs.

Because DB2 Object Comparison Tool simplifies the process of synchronizing source and target objects, you can more easily keep your production database in step with your test and development databases. DB2 Object Comparison Tool also enables you to do the following tasks:

- Build a compare operation by using the walk-through option, which provides an end-to-end framework for specifying job options.
- Generate target changes to a work statement list (WSL) for propagation to remote sites.
- Report differences by using various reports.
- Account for intentional differences and naming discrepancies between two sets of objects.
IBM DB2 Table Editor for z/OS

DB2 Table Editor makes it easy to view and modify your DB2 tables. The primary function of DB2 Table Editor is to modify data that is stored in one of the DB2 family of databases. DB2 Table Editor consists of five different components that serve the following purposes.

- The DB2 Table Editor Console allows you to configure your connection to DB2 and Informix® databases.
- The DB2 Table Editor User allows you to edit DB2 tables by using custom forms. You create these forms by using DB2 Table Editor Developer or manually as needed.
- The DB2 Table Editor Developer allows you to create custom forms to be used to edit DB2 tables.
- The DB2 Table Editor ISPF allows you to view and edit DB2 tables.

DB2 Table Editor can also be incorporated into the DB2 Control Center as an add-in so that you can start DB2 Table Editor directly from the table that you want to edit.

IBM DB2 Configuration Manager for z/OS

DB2 Configuration Manager offers centralized management of database and client configurations. The solution is based on IBM DB2 technology and is designed to manage data more effectively and efficiently. Greater availability is delivered through DB2 enhancements such as online, automated database reorganization. In addition, the increased scalability and the ability of DB2 to use the latest in server technology helps deliver increased performance of backup and recovery processes. Database administrators can track configuration changes to the application’s data clients or servers that to help proactively identify the root cause of a sudden performance degradation or outage of a production application.

DB2 Configuration Manager provides the following capabilities:

- Shows enterprise data assets by using information that is obtained from database application clients and scheduled server discovery tasks
- Modifies properties of deployed database clients to improve database transaction performance and to enforce security and privacy controls between data clients and data
- Enforces properties of deployed database clients so that they conform to the established policies of z/OS Workload Management Service Classes
- Routes data clients within z/OS data sharing groups or across z/OS data servers so that performance and availability objectives are met and sustained
- Allocates data clients among data servers to achieve optimal workload balancing in the database

Benefits

By using DB2 Administration Solution Pack, you can simplify database administration tasks.

DB2 Administration Solution Pack provides a comprehensive, end-to-end solution to manage objects and schemas in the DB2 for z/OS environment, including robust change management capabilities and the ability to track database configurations over time.

DB2 Administration Tool provides the following benefits:
Change management

The Change Management function in DB2 Administration Tool simplifies the process of recording and tracking the changes that you make to your DB2 objects, which can be complex, especially when other individuals have defined changes that must be run.

Change Management batch interface enables you to create, customize, and reuse batch jobs when managing changes in DB2 Administration Tool change management. You can import, analyze, and run changes by submitting batch jobs, and without using the change management ISPF panels.

Explore databases

DB2 Administration Tool lets you quickly navigate the DB2 catalog and display tables, table columns, and indexes. If you are authorized by DB2, you can also display the content of tables either by doing a simple list of the table or by building SQL statements and running them against a table.

You can use the DB2 Administration Tool functions to explore unknown databases rapidly or get a quick overview of a database. None of these uses require that you remember the exact syntax of DB2 commands or SQL statements.

Determine and correct problems

You can use DB2 Administration Tool to identify and fix problems with your databases. With its ability to navigate the catalog and use DB2 commands and utilities on objects, DB2 Administration Tool can help you discover, analyze, and fix database problems in a more user-friendly fashion than is available with native DB2.

Develop small applications

You can use DB2 Administration Tool to rapidly develop small applications. As you become familiar with the tool, you might find that you can develop small DB2 Administration Tool dialogs quickly and easily. For example:

- If you have a tool at your installation that manipulates DB2 tables, you can develop your own line command to access it from DB2 Administration Tool panel that displays tables (implementing the line command as an SMP/E USERMOD). Then, you can start the table tool as a natural follow-on to using DB2 Administration Tool.

- Perhaps you want to generate more DECLARE statements for a PL/I table than is possible with the DB2 DCLGEN tool. You can write an application to start DCLGEN directly from the DB2 Administration Tool panel that displays tables. You can also modify the output that you receive from DCLGEN to meet your installation's standards and requirements.

- You might want to build prototypes of SQL SELECT statements. You can build the statements, test them, and then copy them to a data set to include in your application program.

- DB2 Administration Tool can help you maintain any DB2 tables that you use for installation standards and special requirements. You can use DB2 Administration Tool to develop a small application that describes all of the applications that you have in the system. Or you can use it to display existing tables that, for example, contain information about DB2 plan performance or batch job execution statistics.
Copy tables from one DB2 system to another
You can use the table utilities that DB2 Administration Tool generates to copy tables from one DB2 system to another. You need to make a few modifications to the generated JCL.

Start DB2 Tools
You can start installed IBM DB2 tools that have an ISPF interface directly from DB2 Administration Tool. DB2 Administration Tool guides you through the process of creating a launchpad with the names of your DB2 tools. After this table is created, you can simply select an entry in it to start one of the DB2 tools.

DB2 Object Comparison Tool provides the following benefits:

**Helps you keep your production system a mirror image of your test and development systems**
New applications, application modifications, or mistakes can cause DB2 objects in one system to have different attributes from objects in other systems. DB2 Object Comparison Tool lets you compare objects (and dependent objects) between one DB2 catalog and another. DB2 Object Comparison Tool creates a file of the differences that it finds. DB2 Object Comparison Tool can then generate batch jobs to synchronize the catalogs.

**Supports the use of compare masks so that you can compare objects with different names**
You can use compare masks to convert the names of objects so that you are comparing only for actual differences, not for differences in the names of objects. For example, you can specify that all owner IDs that begin with ABC* in the source be converted to DEF* in the target (the asterisk is a wildcard).

**Provides an option to specify fields to ignore when objects are compared**
You can specify ignore fields to handle intentional differences between the objects that you are comparing. When you do not want to build test objects the same as production objects, you might specify ignores for size, or buffer pools.

**Uses DDL files, DB2 catalog, or version files to get the definition of DB2 objects that are to be compared**
DB2 object comparison definitions can come from the following sources:

A DDL file
A file that contains SQL statements (for example, a SPUFI file). The file should contain data definitions (object definitions).

An extract from the DB2 catalog
An extract of one or more databases, table spaces, or tables and all the dependent objects

A previously created version file
An internal representation of a set of objects. A version file represents a snapshot at a particular point in time. DB2 Object Comparison Tool creates a version file for each source and target. Version files can be used to perform all comparisons.

**Produces a report about the objects compared**
DB2 Object Comparison Tool produces different reports depending on the reporting options that were in effect or chosen by the user.
Can generate jobs to apply to the target any changes that were found or, alternatively, generate a work statement list of the changes

The generate apply jobs function generates either jobs or a work statement list. The job or work statement list can be subsequently used to apply changes to the target object. You do not need to run the apply jobs until you are satisfied with the changes. Changes also can be imported as a change in the Change Management database.

Supports undoing of implemented changes

The undo capability uses a version file to restore application objects to a previous version, if you have made changes and need to revert to the original state of the objects.

DB2 Table Editor provides the following benefits:

Quick and easy manipulation of data

DB2 Table Editor helps you make the best use of your time. It reduces staff training time; enhances database administrator (DBA) productivity; increases the ability to respond to workforce's need for high-performance business applications; and enables the IT team to institute proactive database maintenance.

DB2 Table Editor makes quick and easy work of navigating IBM DB2 databases, tables, and views; finding related data; and updating, deleting, or creating data with full support for your existing DB2 security and logon IDs. It provides drag-and-drop functionality and wizards to rapidly create versatile, task-specific Java or Windows based table editing forms that contain built-in data validation and business rules.

Easy access to data

You can choose from various user entry points to edit DB2 tables: Java enabled web browsers, Java based interfaces that are started from the IBM DB2 Control Center, Microsoft Windows, or an ISPF interface. This variety of user interfaces allows users of all skill levels to interact with your database.

Administrators can browse database tables and views (even with no prior understanding of the database structure), or search and replace, filter data, and open tables that are related to selected data. Users at the front lines of your business, such as customer service personnel, can access your database through forms that contain business rules and command buttons that make it easy to retrieve data and quickly perform specific, important tasks with virtually no training. DB2 Table Editor offers all your users an environment that meets their needs. Employees who do not know SQL can perform inserts, updates, and deletes, which frees your SQL experts for more demanding tasks.

Control of data integrity

In today’s competitive environment, data integrity is more important than ever. Whether your concern is as basic as accurate customer records or as complex as running applications that depend on hundreds of interdependent tables, DB2 Table Editor makes preserving data integrity easy to accomplish, no matter the level of experience of your employees. With DB2 Table Editor, all of your knowledge workers, both novice and expert, can use this single, powerful tool, to manipulate your data while maintaining tight control over data editing privileges.
Cross-platform support

DB2 Table Editor for z/OS supports DB2 for z/OS. DB2 Table Editor for Multiplatforms supports DB2 for Linux, UNIX, and Windows and the Informix database server (IDS).

DB2 Configuration Manager provides the following benefits:

Record and analyze activity in your data systems and control your client applications

By using DB2 Configuration Manager, you can modify client configurations to meet the following objectives:

- Isolate poorly performing client applications within a DB2 for z/OS data sharing group to meet performance and availability objectives.
- Redirect client applications from one system to another to achieve high availability or to facilitate a staged migration of all clients.
- Map application transactions to the appropriate DB2 for z/OS workload management service classes.
- Tune the workload balancing properties of driver connection pooling on DB2 for z/OS and DB2 pureScale® (also known as DB2 application cluster transparency).
- Reduce the maximum number of simultaneous connections to a driver and throttle an application.

Modify your client configuration by using dialogs to create client rules.

You determine which rules to define by analyzing your system. DB2 Configuration Manager provides multiple views for exploring system, database, client, and historical information that include drill-down and filtering capabilities. From these views, you can do the following tasks:

- Show enterprise data assets by using information that is gathered from application clients and scheduled database server jobs.
- Track changes to server and client configurations to quickly determine the root cause of performance degradation. The Configuration Changes page shows you the latest data and the history of configuration changes.
- Centralize client connection definitions and server data models.

Scenario: Deploying and verifying database changes across multiple subsystems

The database administrator of a large IT organization needs to register, track, and deploy changes to database objects across multiple subsystems.

DB2 Administration Tool can store data directly into an DB2 Configuration Manager repository database. The repository database stores information about schema and authorization changes. The tight integration of the tools provides a single view of schema and authorization changes that are committed to DB2 for z/OS for one or more DB2 systems.

Database administrators can use DB2 Configuration Manager user interface to view the DB2 information that is stored in Optim™ Configuration Manager. The interface provides various flexible filtering and sorting capabilities. For example, you can filter by statement type, object name, object type, user ID. The type of information that is stored for each change includes the following:
• DB2 subsystem information
• Unique change ID (determined by DB2 Admin)
• Change name and comment about the change (determined by the user)
• Status of the change beginning from when it first starts to run until it completes
• What DDL and DCL statements were committed to DB2 for the change
• The user that made the change

DB2 Administration Tool makes it possible to modify one or more databases on different subsystems, and then view the changes by using DB2 Configuration Manager.

Recording database changes that were made using DB2 Administration Tool change management in the DB2 Configuration Manager repository database has the following benefits:
• DB2 Administration Tool data can be linked with other data that is stored in DB2 Configuration Manager. For example, DB2 Configuration Manager stores a snapshot of the DB2 catalog that shows differences (regardless of how they were made) between two points in time. This snapshot allows linking between DB2 Configuration Manager configuration changes and the DB2 Administration Tool viewer in DB2 Configuration Manager.
• You can view the status of a change starting from when it begins running for the first time. The status of a change can be viewed across subsystems.
• DDL, GRANT, and REVOKE statements that are applied to DB2 for a change are recorded.
• Problem diagnostics and reporting by showing the ID of the person who ran the statement, the approximate run time, the change name and comment, and more. To determine why the change was made, you can customize the change name and comment so that it records your internal project and work order number of the change.

Example
The following example illustrates how a schema change that is made to three database subsystems using the change management batch interface is then viewed by using the DB2 Administration change management batch interface. The DB2 Configuration Manager front-end interface is used to display DB2 Administration data that is recorded in the DB2 Configuration Manager repository database.

For this example, assume data set SAMPLE.AOCOCM.DDL(W001) contains the following DDL:

```sql
SET CURRENT SCHEMA = 'OCMTEST';
CREATE DATABASE OCMTEST;
CREATE TABLE TB01 (C1 INT)  
IN DATABASE OCMTEST;
CREATE UNIQUE INDEX TB01X1  
ON TB01 (C1)  
BUFFERPOOL BP1;
```

The following JCL provides an example of using the change management batch interface. This change management batch job will, for each of the three DB2 subsystems, create a change entry in the DB2 Administration Tool change
management database, analyze the change to determine what is needed to apply the change on the respective DB2 subsystem, and apply the change statements to DB2.

```
//P001W001 JOB (SAMPLE,ICE,ICE,ICE),'SAMPLE',CLASS=B,
// MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=SAMPLE,TIME=(,30),
// REGION=0M
/*/ JOBPARM S=SY4A
/*
/LSCLIBS JCLLIB ORDER=SAMPLE.AOCOCM.PROCLIB
/
//**********************************************************************
//**********************************************************************
//INPUT STATEMENTS
//**********************************************************************
//INPUT EXEC PGM=IEFBR14
//STMTS DD DISP=(SHR,PASS),DSN=SAMPLE.AOCOCM.DDL(W001)
//**********************************************************************
//***************************************************************
//DSNA EXEC GOCCM,SSID=DSNA,PLAN=ADB
//PARMS DD *
//CHANGE_NAME = 'OCMTEST: &PRJ#, &WORK#.'
//CHANGE_COMMENT = 'CREATE OBJECTS'

ACTION_RUN_CHANGE = 'Y'

PREFIX_FOR_DATA_SETS = '&USERID..OCMTEST'

SYMBOL_NAME = '&PRJ#,' SYMBOL_VALUE = 'P001';
SYMBOL_NAME = '&WORK#,' SYMBOL_VALUE = 'W001';

/* //IMCHG001 DD DISP=(SHR,PASS),DSN=*.INPUT.STMTS
//***************************************************************
//DBAC EXEC GOCCM,SSID=DBAC,PLAN=ADB
//PARMS DD *
//CHANGE_NAME = 'OCMTEST: &PRJ#, &WORK#.'
//CHANGE_COMMENT = 'CREATE OBJECTS'

ACTION_RUN_CHANGE = 'Y'

PREFIX_FOR_DATA_SETS = '&USERID..OCMTEST'

SYMBOL_NAME = '&PRJ#,' SYMBOL_VALUE = 'P001';
SYMBOL_NAME = '&WORK#,' SYMBOL_VALUE = 'W001';

/* //IMCHG001 DD DISP=(SHR,PASS),DSN=*.INPUT.STMTS
//***************************************************************
//DB9C EXEC GOCCM,SSID=DB9C,PLAN=ADB
//PARMS DD *
//CHANGE_NAME = 'OCMTEST: &PRJ#, &WORK#.'
//CHANGE_COMMENT = 'CREATE OBJECTS'

ACTION_RUN_CHANGE = 'Y'

PREFIX_FOR_DATA_SETS = '&USERID..OCMTEST'

SYMBOL_NAME = '&PRJ#,' SYMBOL_VALUE = 'P001';
SYMBOL_NAME = '&WORK#,' SYMBOL_VALUE = 'W001';

/* //IMCHG001 DD DISP=(SHR,PASS),DSN=*.INPUT.STMTS
//***************************************************************
```

This example assumes that the objects were registered in the local change management database and created in DB2 as expected. The job completed with return code 0:
1. Start DB2 Configuration Manager and select **DB2 Admin Tool Explorer** from the **Open** menu.

2. On the **DB2 Admin Tool Explorer** tab, the change entry data for each change on each subsystem is displayed. Notice that the status of each change is **COMPLETE**.

3. Click the **change ID** value for the DSNA location to show the details of one of the subsystem changes.

4. To view all of the changes, return to the summary view by clicking **DB2 Admin Tool Explorer Summary**, then, on the summary view, click **Show All**.
5. The details for all are displayed in a single view. You can apply even more filters to show only the changes for a table, a statement type, and so on.

Scenario: Synchronizing test and production systems

You can synchronize multiple copies of a database by using the DB2 Object Comparison Tool to avoid having to keep meticulous records of all table changes in each database.
Consider a scenario in which the manager of a DB2 application development group must track multiple development teams in an environment that consists of a copy of the production database and several duplicate databases in a test environment. While working on any release cycle, each application coding team is assigned their own test database and requests changes to individual tables for their development work.

Because each team works independently, the database tables in each database soon become quite different from one another. In addition, different stages of change integration result in additional table modifications. You might have ten different databases and table structures in your test environment.

To synchronize these changes with each other, the database administrator can use DB2 Object Comparison Tool to compare the original production schema with each test database and create a baseline from which to create the new production system.

After all of the schema changes are migrated to QA and then to production, you then use the production environment as the new master database to synchronize all of the tables in the test environment.

To synchronize the test database with the database in the production database, use DB2 Object Comparison Tool to compare the database within the test environment and the database within the production database.

Using DB2 Object Comparison Tool you can keep multiple database schemas synchronized.

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**Scenario: Validating data after schema changes have been made**

Tight integration between the tools in DB2 Administration Solution Pack allow database administrators to easily create and validate database schema changes.

The database administrator of a large retail chain wants to make a schema change to a table to convert a DATE format column to a CHAR column.

DB2 Configuration Manager easily permits the change to be made, while the DB2 Table Editor allows the DBA to confirm that the change was made and properly applied.

To modify the schema, the database administrator first uses the DB2 Configuration Manager to change the DATE format to a CHAR format column. Next, the DBA uses DB2 Table Editor to view the table data to confirm that the data in the table is in the expected format. The integration of the tools within DB2 Administration Solution Pack allows the DBA to start DB2 Table Editor by using the EDIT command from within DB2 Administration Tool to start DB2 Table Editor to view the data.

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**Tools Customizer overview**

IBM Tools Customizer for z/OS (also referred to as Tools Customizer) standardizes many of the customization processes that are required to customize IBM Tools that run on z/OS. Tools Customizer is a component of IBM Tools Base for z/OS.

Tools Customizer provides a consistent ISPF interface to ensure that the customization process is the same for all IBM Tools products and solution pack
components. It also provides the ability to "discover" parameter values from products or solution pack components that you previously customized manually or by using Tools Customizer.

**Features and benefits**

Tools Customizer provides the following features:

- A single, consistent ISPF interface ensures that the customization process is the same for all IBM Tools products and solution pack components.
- A Discover EXEC discovers values for common product, LPAR, and DB2 parameters from a product or solution pack component that you previously customized manually or by using Tools Customizer. Each IBM Tools product and solution pack component has a unique Discover EXEC. The discovered parameters are stored in the data store. If the product or solution pack component that you want to customize exists in the Tools Customizer data store, Tools Customizer issues a warning before it overwrites existing values. Use the Discover EXEC by issuing the DISCOVER command on the Customizer Workplace panel.
- The data store retains discovered and manually specified parameter values. Because the parameter information is persistently stored, you have to manually specify or discover parameter values only once. Tools Customizer uses these parameter values where they are applicable.
- A metadata repository contains the members that define the following customization attributes for products and solution pack components:
  - Parameters, tasks, and steps for the product or solution pack component to be customized. Some product or solution pack parameters, tasks, and steps are required.
  - LPAR parameters for the local LPAR. All of the LPAR parameters are required.
  - DB2 parameters for the DB2 subsystem or DB2 data sharing member on which you will customize the product or solution pack component. All of the DB2 parameters are required.
- Default values are provided for product parameters and solution pack component parameters, LPAR parameters, and DB2 parameters. The default values show examples of how to complete fields.

**Service updates and support information**

Service updates and support information for this product, including software fix packs, PTFs, frequently asked questions (FAQs), technical notes, troubleshooting information, and downloads, are available from the web.

To find service updates and support information, see the following website:

```
http://www.ibm.com/support/entry/portal/Overview/Software/
Information_Management/DB2_Tools_for_z-OS
```

**Product documentation and updates**

DB2 Tools information is available at multiple places on the web. You can receive updates to DB2 Tools information automatically by registering with the IBM My Notifications service.
Information on the web

The DB2 Tools Product Documentation web page provides current product documentation that you can view, print, and download. To locate publications with the most up-to-date information, refer to the following web page:

http://www.ibm.com/software/data/db2imstools/db2tools-library.html

You can also access documentation for many DB2 Tools from IBM Knowledge Center:

http://www.ibm.com/support/knowledgecenter

Search for a specific DB2 Tool product or browse the Information Management > DB2 for z/OS family.

IBM Redbooks® publications that cover DB2 Tools are available from the following web page:

http://www.redbooks.ibm.com

The Data Management Tools Solutions website shows how IBM solutions can help IT organizations maximize their investment in DB2 databases while staying ahead of today’s top data management challenges:


Receiving documentation updates automatically

To automatically receive emails that notify you when new technote documents are released, when existing product documentation is updated, and when new product documentation is available, you can register with the IBM My Notifications service. You can customize the service so that you receive information about only those IBM products that you specify.

To register with the My Notifications service:
1. Go to http://www.ibm.com/support/mysupport
2. Enter your IBM ID and password, or create one by clicking register now.
3. When the My Notifications page is displayed, click Subscribe to select those products that you want to receive information updates about. The DB2 Tools option is located under Software > Information Management.
4. Click Continue to specify the types of updates that you want to receive.
5. Click Submit to save your profile.

How to send your comments

Your feedback is important in helping to provide the most accurate and high-quality information. If you have any comments about this book or any other IBM product documentation, use one of the following options:

• Use the online reader comment form, which is located at http://www.ibm.com/software/data/rcf/.
• Send your comments by email to comments@us.ibm.com. Include the name of the book, the part number of the book, the version of the product that you are
using, and, if applicable, the specific location of the text you are commenting on, for example, a page number or table number.

Accessibility features

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use a software product successfully.

The major accessibility features in this product enable users to perform the following activities:

- Use assistive technologies such as screen readers and screen magnifier software. Consult the assistive technology documentation for specific information when using it to access z/OS interfaces.
- Customize display attributes such as color, contrast, and font size.
- Operate specific or equivalent features by using only the keyboard. Refer to the following publications for information about accessing ISPF interfaces:
  - z/OS ISPF User’s Guide, Volume 1
  - z/OS TSO/E Primer
  - z/OS TSO/E User’s Guide

These guides describe how to use the ISPF interface, including the use of keyboard shortcuts or function keys (PF keys), include the default settings for the PF keys, and explain how to modify their functions.

DB2 Administration Solution Pack documentation and updates

This topic explains where to find DB2 and IMS™ Tools information on the web, and explains how to receive information updates automatically.

DB2 Database Solution Pack information on the web

The DB2 Tools Product publications web page provides current product documentation that you can view, print, and download. To locate publications with the most up-to-date information, refer to the following web page:

www.ibm.com/support/docview.wss?uid=swg27020910

IBM Redbooks publications that cover DB2 Tools are available from the following web page:

http://www.redbooks.ibm.com/cgi-bin/searchsite.cgi?query=db2+AND+tools

The Data Management Tools Solutions website shows how IBM solutions can help IT organizations maximize their investment in DB2 databases while staying ahead of today’s top data management challenges:


Receiving information updates automatically

To automatically receive a weekly e-mail that notifies you when new technote documents are released, when existing product documentation is updated, and when new product documentation is available, you can register with the IBM My Support service. You can customize the service so that you receive information about only those IBM products that you specify.
To register with the My Support service:

2. Enter your IBM ID and password, or create one by clicking **register now**.
3. When the My Support page is displayed, click **add products** to select those products that you want to receive information updates about. The DB2 and IMS Tools category is located under **Software -> Data and Information Management -> Database Tools & Utilities**.
4. Click **Subscribe to e-mail** to specify the types of updates that you would like to receive.
5. Click **Update** to save your profile.

**Prerequisite knowledge**

Before using this information, you must understand basic DB2 concepts, the DB2 environment, and your installation's DB2 system. Therefore, DB2 publications are prerequisite for all DB2 Database Solution Pack products and components.

**Accessibility features**

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use a software product successfully.

The major accessibility features in DB2 Administration Solution Pack enable users to:

- Use assistive technologies such as screen readers and screen magnifier software. Consult the assistive technology documentation for specific information when using it to access z/OS interfaces.
- Customize display attributes such as color, contrast, and font size.
- Operate specific or equivalent features by using only the keyboard. Refer to the following publications for information about accessing ISPF interfaces:
  - z/OS ISPF User’s Guide, Volume 1
  - z/OS TSO/E Primer
  - z/OS TSO/E User’s Guide

These guides describe how to use ISPF, including the use of keyboard shortcuts or function keys (PF keys), include the default settings for the PF keys, and explain how to modify their functions.

**Summary of changes**

This topic summarizes the technical changes for this edition.

New and changed information is indicated by a vertical bar (|) to the left of a change. Editorial changes that have no technical significance are not noted.

**Version 2.2, September 2015, SC27-4564-00**

Information has been added or revised for new enhancements and maintenance. The major additions and changes include the following:

- This manual contains links to the most recent versions of the Administration Solution Pack components:
  - DB2 Administration Tool User's Guide
  - DB2 Object Comparison Tool User's Guide
- DB2 Table Editor User's Guide
- IBM InfoSphere® Optim Configuration Manager
Customizing the DB2 Administration Solution Pack

You use Tools Customizer to customize DB2 Admin Tool and DB2 Object Comparison Tool. Customizing the solution pack consists of customizing each of the components. You can customize the components in any order.

**DB2 Administration Tool**
- Preparing to customize DB2 Admin
- Customizing DB2 Admin
- Optional DB2 Admin customization tasks

**DB2 Object Comparison Tool**
- Preparing to customize DB2 Object Comparison Tool
- Customizing DB2 Object Comparison Tool

**DB2 Table Editor**
- Installing and customizing DB2 Table Editor

**InfoSphere Optim Configuration Manager**
- Installing and configuring IBM InfoSphere Optim Configuration Manager
- Roadmaps for installing and configuring IBM InfoSphere Optim Configuration Manager
- Planning for installation
- Installing IBM InfoSphere Optim Configuration Manager Server

**Tools Customizer**
- Tools Customizer overview
- Tools Customizer terminology and data sets
- Starting and preparing Tools Customizer for use
- Customizing products and components
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