



## DB2 Administration and Change Management Tools from IBM

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### Highlights

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- ***Automate routine database administration tasks to improve DBA productivity***
- ***Support application upgrades and enhancements by keeping production, testing and development databases in sync***
- ***Improve database throughput and performance, promoting better business agility***
- ***Provide protection for your database investment with superior service and support from IBM***
- ***Allow groups of users to work collaboratively using changes stored in one change management database***
- ***Offer a comprehensive, easy-to-use change management process that provides an audit trail and also increases the efficiency with which users can address complex activities***

### **Empowering DBAs with powerful tools**

Every new application in your data center puts new demands on your IBM DB2® for z/OS® information management system—and more pressure on your database administrators (DBAs). That's why IBM has automated DB2 administration activities through its high-performance, comprehensive administration and change management tools: IBM DB2 Administration Tool for z/OS, Version 7.2 and IBM DB2 Object Comparison Tool for z/OS, Version 7.2. Backed by IBM's best-of-breed services and support, these tools empower DBAs to easily and efficiently complete the tasks that keep DB2 performing at optimal levels. With DB2 running smoothly in the background, your business users can focus on delivering the responsiveness your customers expect.

### **Managing database changes**

When database structures change, DBAs often spend significant time creating complex scripts, even though the application update itself might be a simple one. Performing such tasks manually can be error prone, potentially impacting the applications on which your business users depend.

Database changes can have cascading effects on database and application performance, pushing errors deeper into the database and making it more difficult to correct mistakes. To avoid application failure, data loss or broken dependencies, DBAs must proceed meticulously through the processes of data unloading, object dropping and rebuilding, and data reloading.

DB2 administration and change management tools from IBM eliminate the need to undergo such cumbersome object management processes. Whether your DBAs are seasoned veterans or new to the job, they can increase their productivity quickly with DB2 Administration Tool and DB2 Object Comparison Tool.

These tools allow groups of users to collaborate in building changes by managing information through a series of DB2 tables stored in a change management database. They can then audit the changes, determine where the changes are in the process, and understand which changes have been deployed. Key to streamlining this process is the capability of the tools to capture only the change information, not all the related objects. The tools can

handle urgent changes that need to occur immediately. They also support virtual changes, giving users the ability to see changes that are in process but not apparent in the DB2 catalog.

To illustrate this collaborative change management process, envision a user who adds a new column to a table but does not implement the change immediately. A second user then creates an index on this table. This second user will be able to see the first user's new column and can decide whether to use it. This collaborative processing ability can reduce the time users take to perform change management activities and decrease errors that may occur in a complex process.

DB2 Administration Tool and DB2 Object Comparison Tool are designed with an easy-to-use interactive system productivity facility (ISPF) interface, that enables DBAs to manage all version files for a database and track the history of changes from a list, organizing them properly for better system throughput and maximum convenience.

### **Interoperability streamlines operations**

DB2 Administration Tool and DB2 Object Comparison Tool interoperate to make short work of routine activities, helping to minimize system downtime and maximize user productivity.

Operations that would require multiple steps when performed manually turn into single jobs. For example, when a physical data model needs to be modified, DBAs can use the DB2 Administration Tool to quickly make changes to the relevant objects underneath the model. And because DB2 Object Comparison Tool simplifies the process of comparing objects and their dependents from different sources and then synchronizing the sources, your DBAs can consistently keep production databases in step with those for testing and development.

In addition to supporting DB2 Version 7 for z/OS, both DB2 Administration Tool and DB2 Object Comparison Tool exploit the functions of DB2 Version 8 for z/OS by providing support for long names in all panels, 4096 partitions and data-partitioned secondary indexes, materialized query tables, sequence object supports and identity column enhancements. As with the other tools in the DB2 family, the DB2 Administration Tool and DB2 Object Comparison Tool will continue to evolve, supporting DB2 9 and future releases to enable you to increase the return on your investment and be more responsive to your customers, partners, suppliers and employees.

### **DB2 Administration Tool for z/OS, Version 7.2**

DB2 Administration Tool provides a comprehensive set of functions to help you manage your DB2 environments efficiently and effectively. DB2 Administration Tool provides in-depth catalog navigation by displaying and interpreting objects in the DB2 catalog and executing dynamic SQL statements. Catalog query capabilities are greatly enhanced in this version. DB2 Administration Tool integrates with other DB2 utilities to simplify the creation of DB2 utility jobs.

DB2 Administration Tool enables you to:

- *Use Online Schema Evolution (OSE) to simplify and streamline changes (available with DB2 Version 8 only).*
- *Run utilities against objects to accomplish tasks such as unloading, reloading, reorganizing, copying and catalog management.*
- *Determine who in the organization is authorized to access which objects.*
- *Grant access privileges to objects as appropriate.*
- *Find the status of a particular object quickly.*

Version 7.2 improves performance by helping you avoid any unnecessary steps in the change management process. Other enhancements for change management include:

- *Alter Table Columns (ALC) or Object Compare: Specify a change owner and name for each piece of work and, using a management interface, track and query changes to objects and find components involved in a change.*
- *Redefine: Change the database for a table space or change the index creator.*
- *Work Statement List (WSL): Allow longer jobname prefixes for WSL-generated jobs, append or replace an existing WSL.*
- *Complex alters using ALC: Alter a view or foreign key, change the target database or table space name.*
- *Rename: Rename a database.*

### **DB2 Object Comparison Tool for z/OS, Version 7.2**

DB2 Object Comparison Tool enables you to see what differences exist between two or more DB2 catalogs, a necessary capability for effective change management. DB2 Object Comparison Tool generates the jobs to align the catalogs. Because DB2 Object Comparison Tool simplifies the process of synchronizing sources, you can more easily keep your production

database in step with your test and development database. DB2 Object Comparison Tool features enhancements to areas such as identity columns, stored procedures and user definable functions, further strengthening the tool's ability to support DB2 Version 8 for z/OS.

DB2 Object Comparison Tool also enables you to:

- *Build a compare operation using the walk-through option.*
- *Generate target changes to a WSL for propagation to remote sites.*
- *Report differences using improved reports.*
- *Account for intentional differences and naming discrepancies between two sets of objects.*

DB2 Object Management Tool includes specific enhancements for change management, including:

- *Batch interface enhancements.*
- *Escalate to table space for partitioned tables.*
- *Masking of column names.*

### **For SAP users**

SAP® provides a set of basic monitoring and management functions for the portion of DB2 supporting your SAP

environment. To offer enhanced functionality, IBM has created the DB2 Administration Toolkit for z/OS the SAP Edition, which is comprised of DB2 Administration Tool and DB2 Object Comparison Tool. This toolkit is intended for use on a System z™ machine dedicated to an SAP environment. For more information, visit [ibm.com/software/data/db2imstools/db2tools/db2sap](http://ibm.com/software/data/db2imstools/db2tools/db2sap).

### **For more information**

Please contact your IBM marketing representative or IBM Business Partner, or call 1 800 IBM-CALL within the U.S.

When ordering the IBM DB2 Administration and Change Management Tools, please refer to the following program numbers:

IBM DB2 Administration Tool for z/OS, Version 7.2: 5697-L90

IBM DB2 Object Comparison Tool for z/OS, Version 7.2: 5697-L40

Note that DB2 Object Comparison Tool, Version 7.2, works only with DB2 Administration Tool, Version 7.2. DB2 Administration Tool, Version 7.2 does not support prior versions of DB2 Object Comparison Tool. The change management functions in Version 7.2 of DB2 Administration Tool and DB2 Object Comparison Tool require the tools to be used together.



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