

IBM DB2 Toolkits for z/OS the SAP Editions

Highlights

- **Optimize SAP system performance**
- **Increase database administrator (DBA) productivity**
- **Simplify monitoring and management tasks, lowering maintenance costs**
- **Support both routine and challenging database administration tasks**

Optimizing SAP environments

Many IBM customers leverage the performance, scalability and reliability of IBM DB2® Universal Database™ for z/OS® to support an SAP® enterprise resource planning (ERP) installation.

If you are one of them, IBM's new offering is designed specifically for you—to help you better manage and monitor your DB2 for z/OS SAP environment. SAP provides a set of basic monitoring and management functions for the portion of DB2 supporting your SAP environment. Now, IBM has created specially packaged toolkits comprised of IBM DB2 Tools for z/OS, for use on a zSeries® machine dedicated to an SAP ERP application. The DB2 Toolkits for z/OS the SAP Editions provide functionality beyond that which is found in the SAP tools shipped with SAP. These toolkits help you optimize SAP performance and database administrator (DBA) productivity.

IBM DB2 Toolkits for z/OS the SAP Editions deliver:

- *Comprehensive and enhanced support for both routine and challenging database administration tasks, such as SAP upgrades, database upgrades, database reorganizations and SQL script development for automated alerts – all increasing DBA productivity.*

- *Help for improving SAP system performance, adding to customer satisfaction.*
- *Simplification of monitoring and management tasks, lowering maintenance costs.*

Get complete tool support with specially packaged editions

IBM DB2 Toolkits for z/OS the SAP Editions consist of the following tools packaged together to make your administrative operations more efficient and save you money:

- *IBM DB2 Automation Toolkit for z/OS the SAP edition*
 - *IBM DB2 Automation Tool for z/OS*
- *IBM DB2 Performance Toolkit for z/OS the SAP Edition*
 - *IBM DB2 Performance Expert for z/OS*
 - *IBM DB2 Query Monitor for z/OS*
- *IBM DB2 Administration Toolkit for z/OS the SAP Edition*
 - *IBM DB2 Administration Tool for z/OS*
 - *IBM DB2 Object Comparison Tool for z/OS*

DB2 Automation Toolkit for z/OS the SAP Edition consists of DB2 Automation Tool for z/OS.

Save maintenance time with autonomic capabilities

DB2 Automation Tool for z/OS advances the goal of enterprise autonomic computing and offers enhancements to ERP environments by providing capabilities such as automating the execution of COPY, REORG and other utilities to provide better management of system resources. Key features include:

- *Use of your definitions of exception criteria for the execution of utilities against an object or group of objects. Once this definition is done, it is used each time DB2 Automation Tool checks to determine if a utility needs to be executed.*
- *Addition or deletion of objects from processing, once profiles are set up, thus saving time in manual procedures, avoiding job creation language (JCL) errors, and adding to your arsenal of autonomic resources.*
- *LOAD balancing, supported in a variety of ways to give you more control over system resources.*
- *An exit that you can use to make smarter decisions when a utility needs to be executed.*
- *A variety of statistical sources enabling you to choose the one that best applies to your situation. You have two choices in how real time statistics are checked: DB2 Automation Tool can do it directly or you can have DB2 Automation Tool use the DSNACCOR stored procedure.*

- *An object counter displayed on the screen, showing, for example, “50 of 12,000.” This automatic object counter enhances your efficiency, helping you to deal with the large number of objects displayed in SAP environments.*

DB2 Performance Toolkit for z/OS the SAP Edition consists of DB2 Performance Expert and DB2 Query Monitor.

DB2 Performance Expert builds on IBM's expertise in autonomic computing by providing recommendations for system tuning, helping you to optimize performance.

Key features of DB2 Performance Expert include:

- *Rule-of-thumb recommendations on how to tune performance.*
- *Snapshot history on statistics, accounting and long-term history in Performance Warehouse (PWH).*
- *Interval mode and “since reset” support history as opposed to only information from DB2 “start” or from “reset start.”*
- *A complete data-sharing view. Using only the monitoring tool included with SAP, a data-sharing view is only available for Thread Activity and Cached Statements.*
- *Network statistics correlated with DB2 thread, performance check and OS statistics to detect problems outside DB2.*

- *Richer object location simulation through DB2 Buffer Pool Analyzer, since simulation is not restricted to SAP statistics.*
- *Reporting capabilities for SMF data.*
- *Capability to define and observe threshold alerts.*
- *Query parallelism support and flexibility on how performance data is stored and monitored, specifically:*
 - *A complete history of all alerts, not just a subset.*
 - *Support for CPU and SYSPLEX query parallelism.*
 - *Flexibility in how collected performance data is stored to help reduce workload on the SAP system.*

DB2 Query Monitor provides autonomic capabilities such as proactive event notification and knowledge-based analysis of your SQL queries. In an SAP environment, DB2 Query Monitor captures alerts and shows performance data from multiple subsystems, helping DBAs to make better decisions and customize and tune SQL workloads to improve performance.

Key features of DB2 Query Monitor include:

- *Reports on all SQL statements, not just the first occurrence.*
- *Identification of objects accessed for each SQL statement executed.*
- *Statement-level alerts for SQL statements that exceed specified performance thresholds.*
- *Capture of comprehensive statistics for SQL statements which trigger alerts.*
- *Capture of host variables for statements.*
- *Enablement for viewing alerts and performance data from multiple subsystems on multiple LPARs.*

The DB2 Administration Toolkit for z/OS the SAP Edition consists of DB2 Administration Tool and DB2 Object Comparison Tool, working together to form a function-rich object management solution.

DB2 Administration Tool reduces the complexity of managing and executing SAP-initiated database changes, which enables DBAs to make faster and more accurate decisions and provides important features for the administration of SAP systems.

Key features of DB2 Administration Tool include:

- *Easy and fast navigation of a DB2 catalog, allowing you to issue DB2 commands, execute utilities and examine schema structures.*
- *Changing all ZPARMS and guidance on how to use the online feature of DB2 V7.*

DB2 Object Comparison Tool promotes quality assurance and database object integrity when objects are transported from test to production environments. This tool also helps to identify potential risks or long-running changes.

Key features of the DB2 Object Comparison Tool include:

- *Reduction of the time required to verify that changes are propagated to each SAP instance. While there are seldom ad hoc changes, when SAP does change or send instructions to change the structures, these changes – including testing – will sometimes take a long time to accomplish.*
- *Alerts for your DBA of any user-defined objects, usually indexes, which will be affected by applying the change.*

System requirements

The IBM DB2 Toolkits for z/OS the SAP Editions support DB2 for z/OS, Version 7 or later, on a zSeries machine dedicated to the SAP ERP environment. The Toolkits' support for DB2 Universal Database for z/OS, Version 8 enables you to take advantage of the many features in the latest DB2 release, such as long names for many object qualifiers.

Simplify, automate and gain ground

Large, complex applications such as SAP consume a significant percentage of your key system resources. Why not take advantage of these toolkits to efficiently optimize the computing resources in your data center while improving your SAP application

performance? Order the IBM DB2 Toolkits for z/OS the SAP Editions today and experience the benefits they bring to your environment.

DB2 Toolkits for z/OS the SAP Editions are intended for SAP ERP users who have a zSeries machine dedicated to that environment. SAP users who do not have a dedicated zSeries machine can still benefit from the same capabilities by utilizing the individual tools that comprise the DB2 Toolkits.

For more information

Please contact your IBM marketing representative or IBM Business Partner, or call 1 800 IBM-CALL within the U.S. or visit: ibm.com/software/data/db2imstools/db2tools/db2sap

When ordering DB2 Toolkits for z/OS the SAP Editions, please refer to the following program numbers:

DB2 Automation Toolkit for z/OS the SAP Edition: 5697-J31

DB2 Performance Toolkit for z/OS the SAP Edition: 5697-J32

DB2 Administration Toolkit for z/OS the SAP Edition: 5697-J30



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