BMC is releasing version 11.1.00 of the BMC Performance for DB2® SQL solution.

This solution includes the following components:

- BMC APPTUNE for DB2
- BMC SQL Explorer for DB2
- BMC Workbench for DB2

NOTE
Before you begin installation, BMC recommends that you check the Support Central website at http://www.bmc.com/support for:

- Updated product documentation (for example, flashes and technical bulletins)
- Product downloads, patches, and fixes (PTFs)
- Product availability and compatibility (PAC) data

These release notes supplement and supersede the product documentation:

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Solution overview

The new Performance for DB2 SQL solution enables DBAs, application developers, and system programmers to identify and correct performance problems in DB2 applications that run in IBM® z/OS® environments. This solution increases application efficiency by enabling you to fine-tune the application from planning and growth stages through retirement. Page 1 lists all of the components that are included in this solution.

Key benefits of using the Performance for DB2 SQL solution include:

- Secure self-service for application developers via a browser-based graphical user interface (GUI) that lets you:
  - View the DB2 catalog
  - Extract DDL
  - Visually describe and compare access paths
  - Conduct what-if analysis of SQL access path changes

  **NOTE**
  Using the GUI requires no knowledge of or access to the IBM TSO or ISPF programs.

- Simplifying SQL tuning by identifying statements with high resource consumption and recommending changes to improve performance:
  - The SQL analysis enforces best-practice SQL coding standards to ensure that your statements provide optimal performance at the lowest cost.
  - The ability to resolve SQL performance problems early in the application life cycle lets you protect against introducing problems into the production environment.

- Cost-effective analysis of SQL performance through:
  - Collecting data efficiently, without using DB2 performance traces
  - Optimizing retention of historical data for online analysis

- Comprehensive reporting in an online or batch environment

- “What-if” analysis showing the impact of changes on SQL statements, allowing you to validate tuning hypotheses before implementing them

- Information about which DB2 objects are being accessed

- Migration of access path statistics within and across DB2 subsystems, supporting consistent statistics for multiple environments

  As a result, DB2 optimizes all SQL based on the same metrics.
Use of BMC Common Explain, expanding on standard DB2 Explain

By detailing predicate usage, object statistics, and rules violations, the solution provides detailed access path analysis.

Comparison of workload-level access paths to identify potential performance changes when SQL is migrated across DB2 environments

Analysis of existing indexes to ensure that they are optimally structured for the SQL that you are executing

The solution also suggests new indexes for a workload to improve the access paths and performance.

Automation of application tuning via performance advisors

Retention of long-term performance data measurements for future analysis

## Installation

Download the latest version of the Performance for DB2 SQL solution by using the Electronic Product Distribution (EPD) facility. You can navigate to the EPD page from the Support Central website at [http://www.bmc.com/support](http://www.bmc.com/support).

NOTE

To request physical shipments, contact your BMC sales representative. Contact information is available on the BMC website.

The Performance for DB2 SQL solution is installed by using the BMC Installation System. This section contains installation information that supplements or supersedes the information in the *Installation System User Guide*.

## Requirements

For software, hardware, and other requirements, see the *Installation System User Guide*.

## Installation changes

For information about installation changes, see the Installation System release notes.
Migration from SQL Performance for DB2

If you have the BMC SQL Performance for DB2 solution installed, you can migrate to the new Performance for DB2 SQL solution. To do so, install the Performance for DB2 SQL solution and apply the CPU authorization password for the Performance for DB2 SQL solution. For more information about installing the solution or applying passwords, see the Installation System User Guide.

FMID and version information

This release of the Performance for DB2 SQL solution uses version 2.3.70 or later of the Installation System and installation media.

**NOTE**

If you have a later version of the Installation System or the installation media, use that version to install the solution, product, or component.

During installation, the following versions and SMP/E FMIDs are installed:

<table>
<thead>
<tr>
<th>FMID</th>
<th>Component</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASAR71C</td>
<td>SAS/C Resident Library</td>
<td>7.1.00</td>
</tr>
<tr>
<td>BBAPW32</td>
<td>BMC Password Security System</td>
<td>3.2.00</td>
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<tr>
<td>BBASC70</td>
<td>SAS/C Transient Library</td>
<td>7.0.00</td>
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<tr>
<td>LOSZ120</td>
<td>RTCS C Library</td>
<td>1.2.00</td>
</tr>
<tr>
<td>ZACSB10</td>
<td>Common SQL</td>
<td>11.1.00</td>
</tr>
<tr>
<td>ZACTB10</td>
<td>CATALOG MANAGER</td>
<td>11.1.00</td>
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<tr>
<td>ZAEXB10</td>
<td>JCL Generation and Execution</td>
<td>11.1.00</td>
</tr>
<tr>
<td>ZAIN031</td>
<td>Install Execution Code</td>
<td>3.1.00</td>
</tr>
<tr>
<td>ZASHB10</td>
<td>BMC Space Estimation Common Code</td>
<td>11.1.00</td>
</tr>
<tr>
<td>ZBMR15E</td>
<td>ISR External Routines</td>
<td>1.5.00</td>
</tr>
<tr>
<td>ZBST100</td>
<td>BMC Support Tool</td>
<td>1.0.00</td>
</tr>
<tr>
<td>ZDASB10</td>
<td>DB2 Assist Component</td>
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<td>Dignus C runtimes and C++ objects</td>
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<td>Common Infrastructure Component</td>
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<tr>
<td>ZLGCA10</td>
<td>DB2 Product Configuration</td>
<td>10.1.00</td>
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<tr>
<td>ZMRE110</td>
<td>Rules Engine “C” code</td>
<td>1.1.00</td>
</tr>
</tbody>
</table>
The preceding table contains the FMIDs for the Performance for DB2 SQL solution only. You can also obtain product, solution, and component information (FMIDs, codes, and versions) in the following ways:

- View the $B76APLF JCL member.
  
  To search the file, search on the word FORFMID.

- View one of the following reports:
  
  - bxx_ozi_tape_product_list.txt lists products and components for the B-series installation (shared and infrastructure products).
  
  - cxx_ozi_tape_product_list.txt lists products and components for the C-series installation (BMC products for IBM® DB2).
  
  - ixx_ozi_tape_product_list.txt lists products and components for the I-series installation (BMC products for IBM IMS).
  
  - mxx_ozi_tape_product_list.txt lists products and components for the M-series installation (MainView products).

To access the reports on the BMC electronic software distribution (ESD) site, take the following steps:


2. Click Electronic Downloads.

3. Click readme.

4. In the “Before you begin” section, click a product media listing.
Maintenance

After you install the Performance for DB2 SQL solution, you can download any additional SMP/E maintenance by using either BMC Internet Service Retrieval (ISR) or eFix PTF Distribution Services (http://apps.bmc.com/support/efix.cgi). BMC ISR is available for all products that you install by using the Installation System. For more information, see the Installation System User Guide.

NOTE
Before applying maintenance, ensure that you have completed the $B76APLF job to set up your maintenance environment.

BMC provides fixes for the Performance for DB2 SQL solution at the component level. To apply fixes for this solution, you must apply fixes for each component of the solution.

Support status

You can find the support status for specific product versions on the Support Central website. Selecting a product from the “A – Z Supported Product List” shows:

- All versions of the product and their current support levels (full or limited)
- Dates on which support ends

For more information about the latest support policies, see the Support Central website at http://www.bmc.com/support.

Product documentation

From the Support Central website (http://www.bmc.com/support), you can:

- Link to the BMC Documentation Center (https://webapps.bmc.com/infocenter/index.jsp) to browse documentation sets
- View BMC Quick Course demos (short overviews of selected product concepts, tasks, or features), which are included in the BMC Documentation Center
- View individual product documents (books and notices) within the “A – Z Supported Product List”
You can order hardcopy documentation from your BMC sales representative or from the support site. You can also subscribe to proactive alerts to receive e-mail messages when notices are issued.

Customer support

If you have problems with or questions about a BMC product, see the support website at http://www.bmc.com/support. You can view or download product documents, find answers to frequently asked questions, and download products and maintenance. If you do not have access to the web and you are in the United States or Canada, contact Customer Support at 1 800 537 1813. Outside the United States or Canada, contact your local BMC office or agent.

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