BMC Software is releasing version 10.1.00 of the DASD MANAGER PLUS for DB2® product.

DASD MANAGER PLUS is also a component of the BMC Database Performance for DB2 solution.

NOTE
Before you begin installation, BMC recommends that you check the Customer Support 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 and discuss product enhancements:

What’s new .................................................................................................................. 2
  DB2 Version 10 support ................................................................. 2
  Simple Space Estimation (SSE) ......................................................... 3
  Index on expression ............................................................................ 3
  AREO* pending (AREOPENED keyword and AREOPENED exception) shared exception ................................................................. 4
  New LOB exceptions .............................................................. 4
  Access path stability ................................................................ 4
  zIIP processing ........................................................................ 4
  System and software requirements .................................................. 5
  Documentation ............................................................................. 5
  Imagecopy and Altdd options .......................................................... 5
  POF keywords to suppress the DD name for copy data sets .............. 6
  RUNTIME_HLQ ........................................................................ 6
  Maximum number of tape volumes .................................................. 6
Installation .......................................................................................... 6
  Installation System changes ............................................................. 7
  DB2 support ............................................................................. 8
  Known installation issues ............................................................... 8
What’s new

These topics describe the changes or new features in this release.

DB2 Version 10 support

DASD MANAGER PLUS supports the following DB2 Version 10 features and changes:

- online schema deferred ALTER
  
  BMCTRIG supports the new ARERPEND exception to detect table spaces and indexes placed in advisory REORG-pending (AREOR) status.

- compression dictionaries that were created during DB2 SQL INSERT processing

- DEFINE NO for XML columns
  
  XML objects that are defined with DEFINE NO are bypassed if the underlying data set has not been materialized.

- index include columns
  
  BMCSTATS collects statistics on columns added to a unique index that are not part of the key and are not used to enforce uniqueness.

- temporal tables
  
  Statistics are now collected for the new temporal data types.

- timestamp columns that are defined with a precision other than 6
  
  The TIMESTMP data type now allows variable precision in the fractional seconds portion of the timestamp.
Simple Space Estimation (SSE)

DASD MANAGER PLUS, CATALOG MANAGER, and CHANGE MANAGER have added a new stand-alone feature that allows you to estimate simple space for table spaces or index objects, giving you “what if” capability. Unlike DASD MANAGER PLUS statistics, you do not need to run BMCSTATS before using SSE. For more information, see the DASD MANAGER PLUS for DB2 User Guide.

Index on expression

DASD MANAGER PLUS supports collecting statistics on expressions. The following new statistics tables (and their associated synonyms) contain data for the first key target:

- BMCATSnn.RS_KEYTGTDIST (synonym BMCASU_SKTGDIST) contains one or more rows for the first key target of an extended index key.
- BMCATSnn.RS_KEYTGTDISTSTATS (synonym BMCASU_SKTGDISTSTA) contains zero or more rows for the first key target of a data-partitioned secondary index.

For more information, see the DASD MANAGER PLUS for DB2 Reference Manual.
AREO* pending (AREOPEND keyword and AREOPEND exception) shared exception

AREO* pending allows you to specify whether an exception should be raised if the index or the table space is in advisory REORG-pending (AREOR) status. For more information, see the DASD MANAGER PLUS for DB2 User Guide.

New LOB exceptions

DASD MANAGER PLUS has added the following new exceptions:

- **Reorg disorg LOB** (REORGDISORGLOB keyword and REORGLOB exception) allows you to specify whether to reorganize a table space based on the percentage of not-perfectly-chunked LOBs that have been inserted since the last REORG.

- **LOB Disorganize** (LOBORGRATI0 keyword and LOBORGR exception) allows you to specify whether to reorganize a table space based on the organization percentage of the table space.

- **LOB Freespace** (LOBFREESPACE keyword and LOBFRSPC exception) allows you to specify whether to reorganize a table space based on the percentage of the LOB that is freespace.

For more information, see the DASD MANAGER PLUS for DB2 User Guide.

Access path stability

BMCTRIG now supports the REBIND options PLANMGMT and PLANMGMTSCOPE. For more information, see the DASD MANAGER PLUS for DB2 Reference Manual.

zIIP processing

DASD MANAGER PLUS now provides the option to offload eligible processing to an IBM® System z® Integrated Information Processor (zIIP). To enable and use zIIP processing, you must have an installed and authorized version of the EXTENDED BUFFER MANAGER (XBM) product or the SNAPSHOT UPGRADE FEATURE (SUF) technology. For this release, the minimum version of XBM or SUF is 5.6.00 with PTF BPE0313.
System and software requirements

This version of DASD MANAGER PLUS has the following changes to minimum requirements. For full requirement information, see Chapter 2 of the DASD MANAGER PLUS for DB2 User Guide.

- IBM z/OS® Version 1.10
- DB2 Solution Common Code (SCC) version 10.1.00
- DB2 Utilities Common Code (D2U) version 10.1.00
- XBM or SUF version 5.6.00

**NOTE**
To enable DB2 Version 10 support, XBM and SUF also require PTF BPE0311.

Documentation

Chapter 10 of the DASD MANAGER PLUS for DB2 User Guide includes an updated customized reports table that indicates which reports require BMCSTATS to run.

Imagecopy and Altddd options

The Imagecopy and Altddd options in BMCSTATS will no longer be supported in a future release of this product.
POF keywords to suppress the DD name for copy data sets

The JCL Generation component offers the following POF keywords to suppress adding DD names to prefixes for the copy data sets:

- FCPY.Suppress.SUFF
- PCPY1 Suppress.SUFF
- PCPY2 Suppress.SUFF
- RCPY1 Suppress.SUFF
- RCPY2 Suppress.SUFF

RUNTIME_HLQ

The RUNTIME_HLQ POF keyword supports the following symbolic variables:

- &DB2V2 and &DB2V3, which resolve to the version of DB2
- &SSID, which resolves to the DB2 subsystem ID

When you include the &SSID symbolic variable, the product can use a single POF with multiple subsystems.

Maximum number of tape volumes

You can now specify 0 for the maximum number of tape volumes. BMC recommends specifying 0 when you are using any of the following items:

- BMC UNLOAD PLUS for DB2 utility
- dynamically allocated data sets
- IBM Storage Management Subsystem (SMS) to manage tape allocations

You can set this value on the JCL Generation Tape Options Update panel or with the TAPE_VOLCNT POF keyword.

Installation

DASD MANAGER PLUS is installed by using the BMC Installation System. This section contains installation information that supplements or supersedes the information in the *Administrative Products for DB2 Installation Guide*.

**Installation System changes**

The Installation System includes the following changes:

- The Product Customization menus accommodate new features, such as the DB2 Product Configuration technology, the DB2 Component Services (DBC), and the Next Generation Logger (NGL). Some MainView products and the System and SQL Performance products use this technology.

- The *Database Performance for DB2 Installation Guide* includes information about a new feature, BMC Internet Service Retrieval (ISR). This feature identifies and applies fixes to all products that you install via the Installation System.

- The products now use the following conventions for synonym qualifiers, collection IDs, and plan names:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Convention</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>synonym qualifier</td>
<td><code>prdvry</code></td>
<td>ASUvrD</td>
</tr>
<tr>
<td>collection ID</td>
<td><code>prdv_y_MAIN</code></td>
<td>ASUvr_D_MAIN</td>
</tr>
<tr>
<td></td>
<td><code>prdv_y_#_MAIN</code></td>
<td></td>
</tr>
<tr>
<td>plan name</td>
<td><code>prdvryz</code></td>
<td>ASUvrDJ</td>
</tr>
</tbody>
</table>

The variables represent the following items:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Represents</th>
</tr>
</thead>
<tbody>
<tr>
<td>v</td>
<td>version level</td>
</tr>
<tr>
<td>r</td>
<td>release level</td>
</tr>
<tr>
<td>y</td>
<td>access type (D=direct, I=indirect)</td>
</tr>
<tr>
<td>z</td>
<td>the plan’s function or the unique plan identifier</td>
</tr>
</tbody>
</table>
DB2 support

DASD MANAGER PLUS for DB2 supports all of the following DB2 modes:

Table 1  Supported DB2 modes

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM8</td>
<td>conversion mode from DB2 Version 8</td>
</tr>
<tr>
<td>CM8*</td>
<td>conversion mode* from DB2 Version 8</td>
</tr>
<tr>
<td>CM9</td>
<td>conversion mode from DB2 Version 9</td>
</tr>
<tr>
<td>CM9*</td>
<td>conversion mode* from DB2 Version 9</td>
</tr>
<tr>
<td>ENFM8\textsuperscript{a}</td>
<td>enabling-new-function mode from DB2 Version 8</td>
</tr>
<tr>
<td>ENFM8*</td>
<td>enabling-new-function mode* from DB2 Version 8</td>
</tr>
<tr>
<td>ENFM9\textsuperscript{a}</td>
<td>enabling-new-function mode from DB2 Version 9</td>
</tr>
<tr>
<td>ENFM9*</td>
<td>enabling-new-function mode* from DB2 Version 9</td>
</tr>
<tr>
<td>NFM</td>
<td>new-function mode</td>
</tr>
</tbody>
</table>

\textsuperscript{a} Before using the DASD MANAGER PLUS product in this mode, you must run the IBM DSNTIJEN job to successful completion. DSNTIJEN converts DB2 to enabling-new-function mode from DB2 Version 8 or 9.1. Successful completion of DSNTIJEN completes catalog migration. BMC does not support DB2 catalogs that are not completely migrated.

Known installation issues

This section describes installation issues that remain open in this release.

DB2 Version 10 security parameter

If both of the following conditions exist at your site, contact BMC Customer Support before attempting to use the Installation System to customize your BMC products:

- Your subsystem is using DB2 Version 10.
- The DSNZPARM SEPARATE_SECURITY subsystem parameter is set to YES.

DB2 Product Configuration component

The name of the BMC Product Management (BPM) component is changing to the DB2 Product Configuration component (FMID ZLGCxxx). Documentation for the April 2011 release reflects the name change. A future release of the Installation System will replace BPM with DB2 Product Configuration in the installation panels and associated Help.
**FMIDSETs**

For products that contain the ZDIG190 FMID as part of an FMIDSET, attempting to run an apply check job ($B75APCF or $B80APCP) or an apply job ($B76APLF or $B81APLP) might result in the following errors:

GIM24801S ** NO SYSMODS SATISFIED THE OPERANDS SPECIFIED ON THE APPLY COMMAND.  
GIM20501I APPLY PROCESSING IS COMPLETE. THE HIGHEST RETURN CODE WAS 12.

To address this issue, take the appropriate action as follows:

- **If you have not yet generated the installation ($B) jobs**, ensure that the Create FMIDSETs field on the Data Set Options panel is set to No (the default) before proceeding.

- **If you have already generated the installation jobs and received the specified error**, run the #D9 jobs to delete the data sets, and regenerate the JCL by using FMIDs instead of FMIDSETs.

BMC plans to correct this issue in the next release of the Installation System.

**Version and FMID information**

This release of DASD MANAGER PLUS uses version 2.3.10 of the Installation System and installation media.

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**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.

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

<table>
<thead>
<tr>
<th>Product or component</th>
<th>Version</th>
<th>FMID</th>
</tr>
</thead>
<tbody>
<tr>
<td>DASD MANAGER PLUS for DB2</td>
<td>10.1.00</td>
<td>ZASUA10</td>
</tr>
<tr>
<td>BMC Common Statistics (ATS)</td>
<td>10.1.00</td>
<td>ZATSA10</td>
</tr>
<tr>
<td>BMC Password Security System</td>
<td>3.2.00</td>
<td>BBAPW32</td>
</tr>
<tr>
<td>BMC Space Estimation Common Code (ASH)</td>
<td>10.1.00</td>
<td>ZASHA10</td>
</tr>
<tr>
<td>DB2 Solution Common Code (SCC)</td>
<td>10.1.00</td>
<td>ZSCCA10</td>
</tr>
<tr>
<td>DB2 Utilities Common Code (D2U)</td>
<td>10.1.00</td>
<td>ZD2UA10</td>
</tr>
<tr>
<td>Dignus C runtimes and C++ objects</td>
<td>1.9.00</td>
<td>ZDIG018</td>
</tr>
<tr>
<td></td>
<td>1.9.01</td>
<td>ZDUG190</td>
</tr>
<tr>
<td>Install Execution Code (AIN)</td>
<td>3.1.00</td>
<td>ZAIN031</td>
</tr>
<tr>
<td>JCL Generation and Execution</td>
<td>10.1.00</td>
<td>ZAEXA10</td>
</tr>
<tr>
<td>Option value migration (ZIO)</td>
<td>1.5.00</td>
<td>ZZIO150</td>
</tr>
</tbody>
</table>
The preceding table contains the FMIDs for DASD MANAGER PLUS only. During installation, view one of the following generated JCL members to see a list of FMIDs for all of the products that you are installing:

- Express installation (JES2): $B90SMPE
- Express installation (JES3): $B91SMPE
- Custom installation: $B76APLF

To search the file, search on the word FMID.

### Maintenance

After you install DASD MANAGER PLUS, 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](http://apps.bmc.com/support/efix.cgi). BMC ISR is available for all products that you install via the Installation System. For more information, see your installation guide.

### NOTE

Before applying maintenance, ensure that you have completed the appropriate jobs (based on your installation method) to set up your maintenance environment, as follows:

- Custom installation: $B78ACPF and $B83ACCP
- Express installation (JES2): $B90SMPE
- Express installation (JES3): $B90SMPE and $B91SMPE

### PUT maintenance schedule

BMC did not deliver first-quarter 2011 PUT maintenance (PUT1101A). Instead, BMC will deliver that maintenance as part of the second-quarter cumulative maintenance in PUT1101B. For information about the PUT delivery schedule, see [http://www.bmc.com/support/put-availability-schedule.html](http://www.bmc.com/support/put-availability-schedule.html).
In the interim, you can use the new BMC Internet Service Retrieval (ISR) feature to identify and apply fixes to all products that you installed via the Installation System. BMC ISR simplifies ordering and retrieving service updates, either on demand or through your scheduler. You can use BMC ISR to inventory your target zones and generate a single request, or schedule a request on a recurring basis to retrieve maintenance updates. For more information, see the maintenance section of your installation guide.

**NOTE**

If you prefer, you can continue to use eFix PTF Distribution Services to obtain fixes on demand.

### Support status

BMC supports the following versions of DASD MANAGER PLUS:

<table>
<thead>
<tr>
<th>Version</th>
<th>Level of support</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.1.00</td>
<td>full</td>
</tr>
<tr>
<td>9.3.00</td>
<td>full</td>
</tr>
<tr>
<td>9.1.x</td>
<td>limited</td>
</tr>
<tr>
<td>8.1.00</td>
<td>none</td>
</tr>
</tbody>
</table>

For more information about the latest support policies, see the Customer Support website at [http://www.bmc.com/support](http://www.bmc.com/support).

### Product documentation

BMC provides a documentation CD in product shipments and offers a link to the CD image on the EPD page of the Customer Support website. Individual product documents (books and notices) are also available on the website. You can order hardcopy documentation from your BMC sales representative or from the website. You can also subscribe to proactive alerts to receive e-mail messages when notices are issued or updated.
Customer support

If you have problems with or questions about a BMC product, see the Customer 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 800 537 1813. Outside the United States or Canada, contact your local BMC office or agent.

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