BMC is releasing version 11.2.00 of the DASD MANAGER PLUS for DB2 product.

DASD MANAGER PLUS is available as a stand-alone product and as a component of Performance for DB2 Databases solution.

**Note**
Before you begin installation, BMC recommends that you check the Support Central website at [http://www.bmc.com/support](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 data

These release notes supplement and supersede the product documentation and discuss product enhancements.

The following topics are discussed:

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What's new

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

BMCSTATS enhancements

DASD MANAGER PLUS now supports the following BMCSTATS enhancements:

■ Additional zIIP OFFLOAD
  BMCSTATS offloads additional eligible workloads to utilize the IBM System z Integrated Information Processor (zIIP), reducing the Total Cost of Ownership (TCO). You can enable zIIP offloading globally through the zIIP=E default options specification or you can define options through the zIIP E syntax.

■ REPEATABLE keyword
  BMCSTATS page sampling has been enhanced to include a specified seed value through the usage of the REPEATABLE keyword. Usage of the default or a specified seed value enables the page sampling algorithm to ensure that repeated executions of BMCSTATS return the same results.

■ Non Partition Index (NPI) key monitoring
  NPI key monitoring provides storage relief during key column statistics collection for multi-data sets (MUDS) through definable parameters. BMCSTATS now provides three new keywords, NPICACHEACTION, NPICACHETHRESH, and NPICACHEDSNUM, that can be used to tune high-storage consuming NPI objects. Values for these keywords can be globally established in the default options module (DOPTs) and can be individually overridden in the BMCSTATS syntax.

■ RESET ACCESSPATH option
  BMCSTATS supports a new RESET ACCESSPATH option that resets the access path statistics for all tables and indexes for the specified table space on the BMCSTATS statement.

■ RESETHISTORY option
  BMCSTATS supports a new RESETHISTORY option. When you use RESET ACCESSPATH, RESETHISTORY ACCESSPATH, BMCSTATS inserts a row for each object in SYSIBM.SYSTABLES_HIST and SYSIBM.SYSINDEXES_HIST to indicate that a reset has been performed.

■ Ability to suppress null indexes
  BMCSTATS supports suppressing null indexes. All table statistics derived from an index defined with the EXCLUDE NULL KEYS clause are adjusted by the number of excluded NULL values.
BMCTRIG enhancements

DASD MANAGER PLUS now supports the following BMCTRIG enhancements:

- The new ICPYPEND exception that detects table spaces and indexes placed in informational COPY-pending (ICOPY) status
- The new ACHKPEND exception that detects table spaces placed in Auxiliary CHECK-pending (ACHKP) status
- The new CHKPEND exception that detects table spaces placed in CHECK-pending (CHKP) status
- The new RBDPEND exception that detects indexes placed in REBUILD-pending (RBDP,RBDP*,PSRDB) status

User interface enhancements

The DASD MANAGER PLUS user interface now features an improved look and feel.

Enhancements include an improved process flow for defining and generating service actions, collecting and managing statistics, and detecting and correcting object exceptions. The following changes and new menus provide better organization of the DASD MANAGER PLUS features:

- BMCCOPY (COPY PLUS) option changes
  - INIT
  - GENSYSPages
  - RESYNC
  - CHANGELIMIT
  - SNAP
- BMCMOD option changes
  - MAXRECDAYS
  - MAXIMUM DAYS
  - MAXIMUM LOGS
  - MINIMUM COPIES
— MINIMUM FULLCOPIES
— OFFSITE
— ON DSNOTFOUND
— ON ERROR NOTSUPPORTED (can now accept keyword END)
— ON ERROR BADSTATUS (can now accept keyword END)
— ON NOTRECOVERABLE
— SITETYPE
— SYSLGRNX

- BMCREORG option changes
  — ARCHDDN
  — ARCHFORMAT
  — DDLIN
  — FORCE (can now accept keyword REPORTONLY)
  — FSFALLBACK
  — FSTHRESHOLD
  — IMPLICIT_TZ
  — LOG NO
  — MAPPINGDATABASE
  — MAPEXIT
  — RBALRSN_CONVERSION
  — REBLANCE ON
  — SHORTMEMORY
  — SORTDATA

- REORG option changes
  — LOGRANGES
— DRAIN_ALLPARTS
— SWITCHTIME
— NEWMAXRO
— SORTCLUSTER
— SORTNPSI
— RBALRSN_CONVERSION
— PARALLEL
— RECLUSTER
— HISTOGRAM NUMCOLS
— HISTOGRAM NUMQUANTILES
— SELECT COLGROUP COLUMNS
— COLUMN SELECTION
— COLGROUP FREQVAL COUNT
— COLGROUP HISTOGRAM NUMQUANTILES
— HISTOGRAM NUMCOLS
— HISTOGRAM NUMQUANTILES

Runstats option changes
— RESET ACCESSPATH
— RESETHISTORY ACCESSPATH
— TABLESAMPLE SYSTEM
— REPEATABLE
— USE PROFILE
— INCLUDE NPI
— SET PROFILE
— FROM EXISTING STATS
JCL generation and execution changes

This release also includes support for Extended Address Volume (EAV) data sets for the JCL generation and execution component of DASD MANAGER PLUS.

Additional enhancements

The following additional enhancements are included:

- Capture of statistical information
  DASD MANAGER PLUS now uses the ASU_HISTORY product table to capture statistical information about BMCSTATS and BMCTRIG executions. The LOGMETRICS=Y option enables you to collect this statistical information, which can be analyzed to see how these components are being used in your environment.

- Archive Enabled tables
  DASD MANAGER PLUS object sets now support archive tables. You can now use object sets tablespace specifications to include or exclude related archive table spaces. If you specify Include ACH Y in an object set definition, BMCSTATS and BMCTRIG will include archive-related table spaces.

End of support for IBM DB2 Version 9

Starting with this release, DASD MANAGER PLUS does not support IBM DB2 Version 9.

DASD MANAGER PLUS supports the following versions of DB2:

- IBM DB2 Version 11
- IBM DB2 Version 10 new-function mode (NFM)
BMC Documentation Center changes

The primary BMC Documentation Center is now available without a support login. This center offers:

- Documentation and Quick Courses for all products except Cost Optimization products
- Messages for all products, including Cost Optimization products

A new, secured Cost Optimization Documentation Center offers documentation and Quick Courses for the following products:

- BMC Application Accelerator for IMS
- BMC Cost Analyzer for zEnterprise (CAzE)
- BMC Intelligent Capping for zEnterprise (iCap)
- BMC Subsystem Optimizer for zEnterprise (Subzero)

Note
You must log in using your BMC Support ID to access the Cost Optimization Documentation Center.

To access the Documentation Centers, go to:

- BMC Documentation Center
- BMC Cost Optimization Documentation Center

Installation

To download the latest version of the Installation System, complete these steps:

1. Go to http://www.bmc.com/support/reg/installation-system.html, or navigate to the “BMC data management for DB2 and IMS, MainView, and cost optimization products installation and maintenance” section of the BMC Support Central website.
   A BMC support user ID and password are required.

2. Click Installation.

3. Follow the procedures.
BMC recommends updating the Installation System each time you use it to ensure that you have the most recent information. To do so, on the Installation System Main Menu, select **Check for Installation System Update**. For additional information, see the *Installation System Reference Manual*.

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

DASD MANAGER PLUS is installed by using the Installation System. This section contains installation information that supplements or supersedes the information in the Installation System documentation.

## Requirements

For software, hardware, and other requirements, see the Installation System documentation.

## Installation changes

For information about installation changes, see the Installation System release notes.

## FMID and version information

This release of DASD MANAGER PLUS uses version 2.4.10 of the Installation System.

*Note*

If you have a later version of the Installation System, 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>Product or component</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASAR71C</td>
<td>SAS_C and SAS_C++ V71</td>
<td>7.1.00</td>
</tr>
<tr>
<td>BBASC70</td>
<td>SAS_C V70B</td>
<td>7.0.00</td>
</tr>
<tr>
<td>ZACSB20</td>
<td>Common SQL (ACS)</td>
<td>11.2.00</td>
</tr>
<tr>
<td>ZAEXB20</td>
<td>Execution for DB2</td>
<td>11.2.00</td>
</tr>
<tr>
<td>ZAIN031</td>
<td>Install Execution Code</td>
<td>3.1.00</td>
</tr>
<tr>
<td>FMID</td>
<td>Product or component</td>
<td>Version</td>
</tr>
<tr>
<td>-----------</td>
<td>--------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>ZASHB20</td>
<td>Common Admin Code</td>
<td>11.2.00</td>
</tr>
<tr>
<td>ZASUB20</td>
<td>DASD MANAGER PLUS for DB2</td>
<td>11.2.00</td>
</tr>
<tr>
<td>ZATSB20</td>
<td>BMCSTATS API</td>
<td>11.2.00</td>
</tr>
<tr>
<td>ZBMUB20</td>
<td>Utility Automation</td>
<td>11.2.00</td>
</tr>
<tr>
<td>ZBST100</td>
<td>BMC Support Tool</td>
<td>1.0.00</td>
</tr>
<tr>
<td>ZDIG190</td>
<td>Dignus C runtimes and c++ objects</td>
<td>1.9.00</td>
</tr>
<tr>
<td>ZD2UB20</td>
<td>Utilities Common Component</td>
<td>11.2.00</td>
</tr>
<tr>
<td>ZPWD330</td>
<td>BMC Password Security System</td>
<td>3.3.00</td>
</tr>
<tr>
<td>ZSCCB10</td>
<td>DB2 COMMON CODE</td>
<td>11.1.00</td>
</tr>
<tr>
<td>ZZIO180</td>
<td>DB2 OPTION CARRYOVER</td>
<td>1.8.00</td>
</tr>
</tbody>
</table>

The preceding table contains the FMIDs for DASD MANAGER PLUS only. You can also obtain product, solution, and component information (FMIDs, codes, and versions) in the following ways:

- View the generated installation JCL member $176APLF.
  To search the file, search on the word FORFMID.

- View one of the following reports:
  - `bxx_ozi_tape_product_list.txt` lists FMIDs for cost optimization products, products shared across product lines, and infrastructure products.
  - `cxx_ozi_tape_product_list.txt` lists FMIDs for BMC products for IBM DB2.
  - `ixx_ozi_tape_product_list.txt` lists FMIDs for BMC products for IBM IMS.
  - `mxx_ozi_tape_product_list.txt` lists FMIDs for MainView products.

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

1. Go to [http://www.bmc.com/support/reg/installation-system.html](http://www.bmc.com/support/reg/installation-system.html), or navigate to the “BMC data management for DB2 and IMS, MainView, and cost optimization products installation and maintenance” section of the BMC Support Central website.

2. Click **Product codes and FMIDs**.

3. Click one of the listed reports.
**Maintenance**

After you install your software, you can download any additional SMP/E maintenance by using either BMC Internet Service Retrieval (BMC 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 documentation.

*Note*
Before applying maintenance, ensure that you have successfully run the $176APLF job to set up your maintenance environment.

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**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.

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**Product documentation**

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

- Link to the BMC Documentation Center to browse documentation sets (http://www.bmc.com/available/documentation-center.html or, for secured documentation sets, http://www.bmc.com/available/documentation-center-secure.html)

- View Quick Course videos (short overviews of selected product concepts, tasks, or features), which are available from the following locations:
  - Documentation Center (primary center and secured center)
  - Support Central (at http://www.bmc.com/support/mainframe-demonstrations)
— BMC Mainframe YouTube channel (https://www.youtube.com/user/BMCSoftwareMainframe)

- View individual product documents (books and notices) within the “A – Z Supported Product List” (https://webapps.bmc.com/support/faces/az/supportlisting.jsp)

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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