COPY PLUS for DB2®
Version 11.1.00
April 3, 2014

BMC originally issued these release notes on June 25, 2013. They are being reissued to reflect new support for the IBM® DB2® Version 11 system. Revision bars denote differences from the previous edition.

BMC is releasing version 11.1.00 of the COPY PLUS for DB2 product.

COPY PLUS is also a component of the following BMC solutions:

- Database Administration for DB2
- Recovery Management 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 and discuss product enhancements:

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What’s new

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

For a short demo describing what’s new in this release, see https://webapps.bmc.com/infocenter/index.jsp. In the BMC Documentation Center, you can access the demo library via BMC Quick Course Demo Library in the Contents pane on the left.

DB2 Version 11 support

COPY PLUS now supports the following features of the IBM DB2 Version 11 system.

Mode and extended RBA and LRSN support

COPY PLUS supports DB2 Version 11 in all modes (CM, ENFM, and NFM) and includes support for extended RBAs and LRSNs in the following items:

- BSDSs
- Logs
- Table spaces
- Index spaces

Pseudo-deleted index support

COPY PLUS supports pseudo deletes and automatic cleanup of pseudo-deleted index entries for DB2 Version 11.

End of support for DB2 Version 8

Starting with this release, COPY PLUS does not support IBM DB2 Version 8. Earlier releases will continue to support Version 8.
Extended RBA and LRSN support

All COPY PLUS output (such as the output in Chapter 5, “Examples of COPY PLUS jobs” in the COPY PLUS for DB2 Reference Manual) has been converted to show 10-byte RBAs and LRSNs. The BMC utilities database has also changed to support extended RBAs and LRSNs.

New EXPORT command for the Copy Migration feature

For the Recovery Management Copy Migration feature, COPY PLUS adds the EXPORT command for use in migrating a copy or set of copies to another DB2 subsystem. The EXPORT command creates a sequential file that contains BMCXC COPY and SYSCOPY table information about all selected table spaces. The RECOVER PLUS MIGRATE and IMPORT commands use this file to move data from one or more table spaces to another.

NOTE

This feature requires one of the following valid passwords:

- Recovery Management solution password
- Database Administration solution password

This release also includes the following changes:

- Adds the EXPOUT option to the OUTPUT command
- Adds new EXPSSID, EXPSLRSN, and EXPTLRSN columns to the BMCXC COPY table to accommodate the EXPORT, MIGRATE, and IMPORT commands
- Adds ICTYPE column value m, and COPY_TYPE column values X and I

In addition to the COPY PLUS for DB2 Reference Manual, see the following resources for more information:

- MIGRATE and IMPORT command descriptions in the RECOVER PLUS for DB2 Reference Manual
- Chapter 11, “Moving data with a migration file,” in Recovery Management for DB2 User Guide
COPY IMAGECOPY support for system-level backups

COPY IMAGECOPY can now create the following types of copies from a system-level backup on disk:

- Standard image copies on disk or tape
- Cabinet copies if you have the Recovery Management solution

COPY PLUS can register these copies in the SYSCOPY or BMCXCOPY tables.

COPY IMAGECOPY support for multitasking

COPY PLUS now supports multitasking when you use COPY IMAGECOPY.

Support for VSAM output on nonsnappable disks

COPY PLUS can now make VSAM copies, even if the data set is not on a snappable disk. To provide this new functionality, COPY PLUS adds the new installation option SNAP. SNAP is also available on the OPTIONS command. When the SNAP value is VSAM, COPY PLUS uses conventional VSAM I/O to copy a VSAM data set.

Additionally, COPY PLUS adds the new FCPPRC installation option. You can use FCPPRC to control what happens if you specify SNAP=VSAM and the data sets are on a disk that is capable of IBM FlashCopy®.

New GENSYSPPAGES option

COPY PLUS can now automatically materialize system pages before making a copy to use for migration. To accommodate this feature, this release adds GENSYSPPAGES as an installation option, and as an option for the COPY command. Valid values for GENSYSPPAGES are AUTO and NO.

New SUMMARY value for HISTORY option

You can now use SUMMARY as a value for the HISTORY installation option. HISTORY=SUMMARY provides summary information about each execution of COPY PLUS. In contrast, HISTORY=YES provides more detailed information, and HISTORY=NO (the default) provides no information.
New MAXRECDAYS option

The MAXRECDAYS option for the DELETE subcommand on the MODIFY command provides an alternative method for SYSCOPY or BMCXCOPY cleanup. You specify the number of whole calendar days for which you want to ensure recoverability, and COPY PLUS retains that recovery information in SYSCOPY or BMCXCOPY. COPY PLUS deletes SYSCOPY or BMCXCOPY rows that are not needed for recovery based on your specification.

New symbolic variables

COPY PLUS adds the &UNIQ (or &UQ) symbolic variable to generate unique names for image copy data sets. For example, you can use this variable with the DSNAME parameter on the OUTPUT command.

If you use &UNIQ, COPY PLUS generates a 1- to 8-character value that is based on the system clock. The first character is always an uppercase letter. Each remaining character is either an uppercase letter or a numeral from 0 through 9.

NOTE

Support for &UNIQ is available by PTF for COPY PLUS version 10.1 (BPU3449) and COPY PLUS version 9.2 (BPU3347).

COPY PLUS also adds the &PART5 symbolic variable that you can use for any data set. COPY PLUS generates 5-character partition numbers as follows:

- Partition 1 = 00001
- Partition 10 = 00010
- Partition 100 = 00100
- Partition 1000 = 01000
- Nonpartitioned = 00000

Documentation changes

This release includes the following documentation changes:

- The COPY PLUS for DB2 Reference Manual specifies updated items to consider when using cabinet copies.
All messages are now available in the BMC Documentation Center, which is accessible from the BMC Support Central site (http://www.bmc.com/support). A separate messages manual is no longer available.

Installation and configuration information is located in the following books:

— *Installation System User Guide*
— *BMC Products and Solutions for DB2 Configuration Guide*

### Installation

Download the latest version of the COPY PLUS 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.

**NOTE**

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

COPY PLUS 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* and the *BMC Products and Solutions for DB2 Configuration 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.
This release of COPY PLUS uses version 2.3.60 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>Product or component</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASAR71C</td>
<td>SAS_C and SAS_C++</td>
<td>7.1.00</td>
</tr>
<tr>
<td>BBAPW32</td>
<td>BMC Password Security System</td>
<td>3.2.00</td>
</tr>
<tr>
<td>ZACPB10</td>
<td>COPY PLUS</td>
<td>11.1.00</td>
</tr>
<tr>
<td>ZAIN031</td>
<td>Install Execution Code</td>
<td>3.1.00</td>
</tr>
<tr>
<td>ZBMR15E</td>
<td>ISR External Routines</td>
<td>1.5</td>
</tr>
<tr>
<td>ZDIG190</td>
<td>Dignus C runtimes and C++ objects</td>
<td>1.9</td>
</tr>
<tr>
<td>ZSCCB10</td>
<td>DB2 Solution Common Code (SCC)</td>
<td>11.1.00</td>
</tr>
<tr>
<td>ZZIO160</td>
<td>Option value migration (ZIO)</td>
<td>1.6.00</td>
</tr>
</tbody>
</table>

The preceding table contains the FMIDs for COPY PLUS 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 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 COPY PLUS, BMC strongly recommends that you apply all available maintenance for the product and for the components and associated products that you installed with it. 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 via 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.

**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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