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

RECOVER PLUS is available as a stand-alone product and as a component of the following solutions:

- BMC Recovery for DB2
- BMC High Speed Utilities for DB2
- BMC Recovery Management for DB2

**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:

**What's new**

- End of support for DB2 versions
- Tagged copies for migration
- Support for migrating XML spaces
- Support for migrating statistics
- New options for making output copies
- Rebuilding indexes with SHRLEVEL CHANGE
- Incremental copies with Instant Snapshots
- Online consistent copies for LOBs
- Support for CHANGE ACCUM on DB2 Version 11
- Recovery of individual spaces using system backups
- Instantiated data sets for DEFINE NO
- Migration of partition-by-growth (PBG) spaces with more than one data set
What's new

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

End of support for DB2 versions

Starting with this release, RECOVER PLUS does not support Version 9 of the IBM DB2 database management system. In addition, RECOVER PLUS supports DB2 Version 10 only in new-function mode. Earlier releases will continue to support Version 9 and other modes of DB2 Version 10.

Tagged copies for migration

In the previous release, running EXPORT to identify copies for migration did not always clearly identify which copies were exported, especially if the copies were made in multiple jobs. With the new TAG option, this release allows the user to "tag" output copies to simplify selecting copies for migration.
Support for migrating XML spaces

This release adds support for migrating XML spaces by using image copies.

Support for migrating statistics

This release adds support for migrating statistics with the new IMPORT STATS option.

New options for making output copies

With this release, you can make output copies by using inline input copies or Instant Snapshot input copies.

Rebuilding indexes with SHRLEVEL CHANGE

You can now use SHRLEVEL CHANGE to rebuild indexes.

Incremental copies with Instant Snapshots

This release adds support for using incremental copies based on full Instant Snapshot copies for recovery.

Online consistent copies for LOBs

RECOVER PLUS can now recover large object (LOB) spaces using online consistent copies.

Support for CHANGE ACCUM on DB2 Version 11

This release of RECOVER PLUS supports CHANGE ACCUM on Version 11 of the IBM DB2 database management system.
Recovery of individual spaces using system backups

This release adds support for recovering individual spaces by using system backups.

Instantiated data sets for DEFINE NO

When migrating data to a space that is DEFINE NO, RECOVER PLUS now updates the DB2 catalog and creates the cluster if it does not exist.

Migration of partition-by-growth (PBG) spaces with more than one data set

The new MIGRATE TOLOCATION option improves the handling of partition-by-growth spaces with more than one data set. The new option allows RECOVER PLUS to alter the number of data sets on the target system automatically.

Support for not indexing keys that are NULL

Starting with this release, RECOVER PLUS can omit null keys during REBUILD INDEX operations.

Support for RBA/LRSN conversion during REBUILD INDEX

RECOVER PLUS can now convert the RBA/LRSN format (basic-extended) during REBUILD INDEX operations.

Support for RBA/LRSN conversion for point-in-time recovery

RECOVER PLUS allows recovery to a point in time where the RBA/LRSN format for the partition is different from the current RBA/LRSN format.
Prevention of recovery to a point in time before dropped columns

This release of RECOVER PLUS checks for dropped columns and disallows recovery to a point in time before a DROP COLUMN operation.

Recovery to a point in time before materializing changes

RECOVER PLUS now allows recovery to a point in time before certain materializing changes (for example, DSSIZE, PGSIZE, and SEGSIZE).

INDEP OUTSPACE with OBJECTSET

You can now use INDEP OUTSPACE with the RECOVER and REBUILD commands when an object list is specified via OBJECTSET syntax.

New RICHK option

If RICHK YES is specified and a partial recovery is performed on spaces with referential integrity constraints, RECOVER PLUS now sets check pending on related spaces that were not recovered.

New AUX ALL option

In previous releases, AUX YES would recover history tables and auxiliary spaces. This release uses the HISTORY option to recover history tables and adds AUX ALL to recover all of the auxiliary spaces.

Support for persistent read only (PRO) and read-or-replication-only (RREPL) statuses

This release adds support for PRO and RREPL statuses.
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

Documentation changes

This release includes the following documentation changes:

- The name of the *BMC Global Infrastructure Administration Guide* has changed to *BMC Infrastructure Components Administration Guide*.

- The name of the *BMC Products and Solutions for DB2 Configuration Guide* has changed to *BMC Products and Solutions for DB2 Customization Guide*.

- In addition to the *Installation System Reference Manual*, BMC now provides the *Installation System Quick Start*, which enables you to quickly install the product with the Installation System.

- Revision bars in the documentation denote differences from the previous edition.
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.

   Note
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.

RECOVER 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 RECOVER 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++</td>
<td>7.1.00</td>
</tr>
<tr>
<td>BBASC70</td>
<td>SAS_C</td>
<td>7.0.00</td>
</tr>
<tr>
<td>ZAIN031</td>
<td>Install Execution Code</td>
<td>3.1.00</td>
</tr>
<tr>
<td>ZAFRB20</td>
<td>RECOVER PLUS <em>for DB2</em></td>
<td>11.2.00</td>
</tr>
<tr>
<td>ZAUP241</td>
<td>BMCSORT</td>
<td>2.4.01</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>ZDIG190</td>
<td>Dignus C runtimes and C++ objects</td>
<td>1.9.00</td>
</tr>
<tr>
<td>ZDIG1A0</td>
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</tr>
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<td>DB2 Solution 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 RECOVER 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, 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.

## 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 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.
Telephone 1 713 918 8800 (or 1 800 841 2031 United States and Canada)
Customer Support: 1 800 537 1813 (United States and Canada) or contact your local support center