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

RECOVERY MANAGER is available as a stand-alone product and as a component of the following solutions:

- BMC Recovery 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 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.

End of support for DB2 versions

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

DB2 Version 11 support

This release adds support for the following DB2 Version 11 features:

- Persistent read only (PRO) and read-or-replication-only (RREPL) statuses for Exception Groups
- Archive-enabled tables
  This release provides an INCLUDE option when creating groups or object sets online and in batch. This option includes related archive tables in the group or object set.
- Enhancements and restrictions to point-in-time (PIT) recoveries
- RBALRSN_CONVERSION for catalog/directory Rebuild Index
Online creation of groups by INDEXSPACE name

This release adds the option to create groups online by INDEXSPACE name. RECOVERY MANAGER and DASD MANAGER PLUS share the same repository for groups/object sets. Creating groups by index space gives RECOVERY MANAGER the same functionality as the DASD MANAGER PLUS interface.

Method to copy groups from one DB2 subsystem to another

The GA line command on the group list panel generates JCL for the batch program ARMBGRP to create all of the groups in the list. By changing the SSID, you can use this job to create the same groups on another subsystem. You can also use this JCL as a backup, in case one or more groups are inadvertently deleted.

Support for VARBINARY and PENDINGDDL for recoverability

This release adds support for statuses VARBINARY and PENDINGDDL. You can see these statuses on the group object list panel and in the ARMBGPV Exception report.

Enhancements for CHECK DATA after recovery

Table spaces that have parents or hash tables will be selected to have CHECK DATA after they are recovered and when the group option Check Pend Action is CHECK.

ARMBGRP changes

This release includes the following changes for ARMBGRP:

- Adds support for the following additional statuses when creating Exception Groups:
  - ERRORRANGE
  - ADVISORYREORG
  - ADVISORYREBUILD
  - INFORMATIONALCOPY
  - AUXILIARYCHECK
  - AUXILIARYWARN
—GRECP
—REBUILDPEND
—REORGPEND
—PERSISTENTREADONLY
—REPLICATIONONLY

- Enables IVP to report synonyms

**ARMBSRR changes**

This release includes the following changes for ARMBSRR:

- Bypass Quiesce supports VALIDATE FAIL/WARN.

- New syntax BSDS HOURSLIMIT and BSDS DAYSLIMIT provide alternate methods to specify the maximum number of logs that you want ARMBSRR to process.

- New syntax LIMIT HOURS and LIMIT DAYS provide alternate methods to specify how many log data sets are to be restored for each recovery-site archive log copy.

- This release adds the option to initialize active logs with DSNJLOGF. This option improves performance by avoiding initialization overhead the first time the active log is used by DB2.

**New batch program ARMBACT**

The ARMBACT batch program allows you to initialize all active logs for a specified SSID by calling DSNJLOGF.

For more information, see "ARMBACT—Initialize active logs with DSNJLOGF" in the RECOVERY MANAGER for DB2 User Guide.

**ARMBRPR and Progress Reports changes**

Recovery Progress Reports and the batch program ARMBRPR were introduced in the last release. This release changes the online name to Progress Reports. The batch program name, ARMBRPR, remains the same.
Additionally, this release extends the functionality of Progress Reports and ARMBRPR. New functions include:

- ARMBRPR command to externalize real-time statistics
- 'What if' scenarios for backup elapsed time estimates
- 'What if' scenarios for recover elapsed time estimates

New functionality requires a BMC Recovery for DB2 password. For more information, see the following chapters in the RECOVERY MANAGER for DB2 User Guide:

- "Accessing online Progress Reports"
- "ARMBRPR—Progress Reports"

Withdrawal of the ARMBREP repository conversion program

The ARMBREP repository conversion program has been withdrawn. Customers running version 9.1.00 or earlier who install version 11.2.00 will need to manually re-create their groups in the new common repository. These customers should contact BMC customer support for assistance.

ANSI printer carriage control characters

RECOVERY MANAGER reports are no longer produced with ANSI printer carriage control characters.

Changes for RECOVER PLUS

RECOVERY MANAGER now supports the following items for the RECOVER PLUS product:

- MAXPRIM and AUTOSIZE for OUTCOPY
- TOTIMESTAMP and TOLOGMARK for OUTCOPY
  
  TOTIMESTAMP and TOLOGMARK offer more flexibility when specifying OUTCOPY ONLY by allowing you to set a migration point to any point in time, not just the last copy.

- &PART5 Variable for Output Data Set Names
Alternate Resource SB (System Backup)
RECOVER PLUS supports recovering individual spaces using system backups. RECOVERY MANAGER adds SB (System Backup) to the Alternate Resource Selection panel (ARMR005C).

Changes for COPY PLUS

RECOVERY MANAGER now supports the following items for the COPY PLUS product:

- &PART5 Variable for Output Data Set Names
- Shlevel Change Consistent replacing PGM=NSCMAIN

In previous releases, online consistent copies were made by executing the program NSCMAIN. Starting with this release, you can make online consistent copies by executing ACPMAIN with the CONSISTENT YES option.

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
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](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.
RECOVERY MANAGER 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 RECOVERY MANAGER 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>LOSZ120</td>
<td>RTCS C Library</td>
<td>2.0.00</td>
</tr>
<tr>
<td>ZAIN031</td>
<td>Install Execution Code</td>
<td>3.1.00</td>
</tr>
<tr>
<td>ZARMB20</td>
<td>RECOVERY MANAGER for DB2</td>
<td>11.2.00</td>
</tr>
<tr>
<td>ZBMRI5E</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>ZDCA10</td>
<td>DB2 Component Services</td>
<td>10.1.00</td>
</tr>
<tr>
<td>ZDIGI90</td>
<td>Dignus C runtimes and C++ objects</td>
<td>1.9.00</td>
</tr>
<tr>
<td>ZDIGI0A</td>
<td>Dignus C runtimes and C++ objects</td>
<td>1.9.08</td>
</tr>
<tr>
<td>ZLGC10</td>
<td>DB2 Product Configuration</td>
<td>10.1.00</td>
</tr>
</tbody>
</table>
The preceding table contains the FMIDs for RECOVERY MANAGER 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 \textit{FORFMID}.

- View one of the following reports:
  - \texttt{bxx\_ozi\_tape\_product\_list.txt} lists FMIDs for cost optimization products, products shared across product lines, and infrastructure products.
  - \texttt{cxx\_ozi\_tape\_product\_list.txt} lists FMIDs for BMC products for IBM DB2.
  - \texttt{ixx\_ozi\_tape\_product\_list.txt} lists FMIDs for BMC products for IBM IMS.
  - \texttt{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 \url{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 \textbf{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 (\url{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](http://www.bmc.com/support).

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**Product documentation**

From the Support Central website ([http://www.bmc.com/support](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](http://www.bmc.com/available/documentation-center.html) or, for secured documentation sets, [http://www.bmc.com/available/documentation-center-secure.html](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)
  - BMC Mainframe YouTube channel ([https://www.youtube.com/user/BMCSoftwareMainframe](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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