BMC Software is releasing version 10.2.00 of the UNLOAD PLUS for DB2® product.

UNLOAD PLUS is a component of the BMC Database Administration for DB2 solution.

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.

### Clone tables

UNLOAD PLUS now unloads clone tables and base tables that participate (or have participated) in a clone relationship. In UNLOAD PLUS version 10.1, this feature required that you specify DIRECT NO. You can now use this feature with either DIRECT YES or DIRECT NO.

The new CLONE option on the UNLOAD TABLESPACE command enables this feature. For more information, see the *UNLOAD PLUS for DB2 Reference Manual*.

### Universal table spaces defined with MEMBER CLUSTER

UNLOAD PLUS now supports universal table spaces that are defined with MEMBER CLUSTER. In UNLOAD PLUS version 10.1, this feature required that you specify DIRECT NO. You can now use this feature with either DIRECT YES or DIRECT NO.

### Temporal tables

UNLOAD PLUS now supports temporal tables. In UNLOAD PLUS version 10.1, this feature required that you specify DIRECT NO. You can now unload temporal tables with either DIRECT YES or DIRECT NO.

The following enhancements are part of this support:

- You can use either DIRECT YES or DIRECT NO to unload history tables.
When unloading temporal tables, UNLOAD PLUS generates control cards for the following CNTLCARDS values:

- DB2LOAD
- BMCLOAD
- DB2
- DB2DDL

For specific information about which control cards UNLOAD PLUS generates for temporal tables, see the individual CNTLCARDS values in Chapter 3 of the UNLOAD PLUS for DB2 Reference Manual.

**Timestamp columns defined with a precision other than 6**

UNLOAD PLUS now supports timestamp columns that are defined with a precision (number of microseconds) other than 6. In UNLOAD PLUS version 10.1, this feature required that you specify DIRECT NO. You can now use this feature with either DIRECT YES or DIRECT NO.

You can now specify a precision other than 6 when including a timestamp constant in a predicate.

**TIMESTAMP WITH TIME ZONE data**

UNLOAD PLUS now supports timestamp columns that are defined as TIMESTAMP WITH TIME ZONE. In UNLOAD PLUS version 10.1, this feature required that you specify DIRECT NO. You can now use the following functions with either DIRECT YES or DIRECT NO:

- Specify the TIMESTAMP WITH TIME ZONE data type on your field specification. For more information, see the UNLOAD PLUS for DB2 Reference Manual.
- Use the new IMPLICIT_TZ command option to specify a time zone to use in any of the following situations:
  - You are unloading a TIMESTAMP column (without a time zone) and the field specification for the column is TIMESTAMP WITH TIME ZONE.
  - You include a SELECT statement on a TIMESTAMP WITH TIME ZONE field, and the SELECT statement specifies a timestamp constant that does not include a time zone.
  - You include a WHERE clause on a TIMESTAMP WITH TIME ZONE column, and the WHERE clause specifies a timestamp constant that does not include a time zone.
For more information, see the description of this option in the *UNLOAD PLUS for DB2 Reference Manual*.

You cannot include WITH TIME ZONE on a CURRENT TIMESTAMP specification.

**Binary XML data**

When DIRECT YES is in effect, UNLOAD PLUS now unloads binary XML data to referenced files. You can specify the BINARYXML keyword with the CHAR and VARCHAR BLOBF data types. For more information, see the descriptions of these keywords in the *UNLOAD PLUS for DB2 Reference Manual*.

**Logical partitions**

When DIRECT YES is in effect, you can now specify the LOGICAL keyword with the PART option to tell UNLOAD PLUS which logical partitions you want to unload instead of having to specify the corresponding physical partitions. For more information, see the description of the PART keyword in the *UNLOAD PLUS for DB2 Reference Manual*.

**DSNTYPE option**

The DSNTYPE installation and command options have been expanded to enable you to specify the type of output data set that you want UNLOAD PLUS to create during dynamic allocation. For more information, see the description of the DSNTYPE installation option or command option in the *UNLOAD PLUS for DB2 Reference Manual*.

**Cabinet copies**

UNLOAD PLUS now unloads from cabinet copies that have been created by the BMC Recovery Management for DB2 solution. To unload from a cabinet copy, specify INFILE IMAGECOPY.
Ability to cancel threads

You can now tell UNLOAD PLUS to cancel threads in DB2 that might prevent a successful drain. You must have the following authorizations to use this functionality. (These additional authorizations might be implicit in the authority that you have.)

- DISPLAY privileges
- One of the following authorities:
  - SYSADM
  - SYSOPR
  - SYSCTRL

A new command option, FORCE, enables this functionality; corresponding installation options FORCE, FORCE_AT, and FORCE_RPT provide default values for this option.

You can also specify a new DD statement, BMCFORCE DD, to contain the thread cancelation report.

For more information, see the descriptions of the FORCE options and the BMCFORCE DD statement in the UNLOAD PLUS for DB2 Reference Manual.

Additional output messages data set

You can now send UNLOAD PLUS output messages to a second output data set by specifying a SYSPRIN2 DD statement in your JCL. The content of this optional data set is identical to the content of the SYSPRINT data set.

SYSPRIN2 is not a substitute for SYSPRINT. If you include a SYSPRIN2 DD statement in your JCL, you must still include a SYSPRINT DD statement.

In a worklist environment, you can specify SYSPRIN2 DD SYSOUT=* to view output in real time from any of the BMC Utility products that run in that worklist.

NOTE

PTF BPU3886 provided this functionality for version 10.1.00.
ON FAILURE option

The ON FAILURE option has changed: UNLOAD PLUS now always terminates the unload job on failure. If your job includes the now-obsolete syntax STOP UTILITY, UNLOAD PLUS changes it to TERMINATE UTILITY.

VSAM ddname prefix

You can now specify a ddname prefix instead of the default VSAMDD when unloading from VSAM data sets. The new VSAMDDPREFIX keyword of the INFILE option enables this functionality, allowing you to unload from more than 99 data sets. For more information, see the description of this keyword in the UNLOAD PLUS for DB2 Reference Manual.

ACFORTSS removal

This release removes the ACFORTSS option. Now, if the following conditions exist, you must ensure that the DB2 external security exit (DSNX@XAC) from Computer Technologies is implemented:

- You use the Computer Technologies CA-ACF2 or CA-Top Secret security product for DB2.
- You previously used ACFORTSS=Y.

System and software requirements

This version of UNLOAD PLUS has the following changes to minimum requirements from version 10.1 of UNLOAD PLUS:

- BMCSORT version 2.4.01
- DB2 Solution Common Code (SCC) version 11.1.00
- DB2 Utilities Common Code (D2U) version 10.2.00

End of support for DB2 8, DB2 9 CM, and DB2 10 CM8

Starting with this release, UNLOAD PLUS does not support IBM® DB2 Version 8. Earlier releases will continue to support Version 8.
Future releases of UNLOAD PLUS will not support the following modes:

- DB2 Version 9 CM
- DB2 Version 10 CM8

**Documentation changes**

This release includes the following documentation changes:

- 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*

**Known issue**

UNLOAD PLUS might not unload all rows when the following conditions exist:

- You are running UNLOAD PLUS on a data sharing system.
- You are unloading a table space that is defined with MEMBER CLUSTER.
- DIRECT YES is in effect.

PTF BPU5780 resolves this issue.

**Installation**

Download the latest version of the UNLOAD PLUS for DB2 product 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.

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**NOTE**

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

FMID and version information

This release of UNLOAD PLUS uses version 2.3.60 or later 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>ZADUA20</td>
<td>UNLOAD PLUS for DB2</td>
<td>10.2.00</td>
</tr>
<tr>
<td>ZAIN031</td>
<td>Install Execution Code</td>
<td>3.1.00</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>ZDIG190</td>
<td>Dignus C Runtime and C++ objects</td>
<td>1.9.01</td>
</tr>
<tr>
<td>ZD2UA20</td>
<td>DB2 Utilities Common Component</td>
<td>10.2.00</td>
</tr>
<tr>
<td>ZSCCB10</td>
<td>DB2 Solution Common Code</td>
<td>11.1.00</td>
</tr>
<tr>
<td>ZZIO160</td>
<td>DB2 Option Carryover</td>
<td>1.6.00</td>
</tr>
</tbody>
</table>
The preceding table contains the FMIDs for UNLOAD 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 UNLOAD 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 by using the Installation System. For more information, see the Installation System User Guide.
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.