LOADPLUS for DB2 and UNLOAD PLUS for DB2
Version 11.1.00 and 11.2.00
April 8, 2016
Tracking number QM001883486, QM001883487: BMC is providing the capability to report compatibility between BMC Utility Products for DB2 and BMC Next Generation Technology products

BMC is announcing the availability of a feature in the LOADPLUS for DB2 and UNLOAD PLUS for DB2 products that reports compatibility between these products and the comparable BMC Next Generation Technology products.

Overview of the compatibility reporting feature

When you run LOADPLUS or UNLOAD PLUS, the utility uses the compatibility reporting feature to analyze your job and identify any functions that are not compatible with the equivalent BMC Next Generation Technology (NGT) product. Specifically, the utility identifies incompatible:

- Installation options (for example, ROWSETSZ in UNLOAD PLUS)
- Syntax options (for example, IFZEROROWS in LOADPLUS)
- Object types or other product features (for example, unloading from encrypted copies in UNLOAD PLUS)

**Note**

The utility reports a function of compatible for those job steps that have no incompatibilities.

The utility writes the information to two tables that you create. You can query those tables to obtain incompatibility information. (For sample queries, see “Using the compatibility output” on page 5.)

The reported information provides the following benefits:

- Helps your organization prepare for the transition to NGT by identifying which current jobs:
  - Can run as is ("transparently") with the equivalent NGT product
  - Will require updates in order to run with the equivalent NGT product
Helps BMC prioritize development requirements for the NGT products based on customer needs

Note
BMC plans to add transparency functionality to the equivalent NGT products. Transparency functionality will enable you to use much of your current LOADPLUS and UNLOAD PLUS JCL with those NGT products. Compatibility reporting identifies only functions that will be deemed incompatible by the transparency functionality when it becomes available.

Enabling the compatibility reporting feature

Use the following procedure to enable the compatibility reporting feature by applying the appropriate PTFs and creating the tables to which the utility will write.

Note
If you have questions, contact Customer Support at 1 800 537 1813 (United States or Canada) or call your local support center.

To enable the compatibility reporting feature

1. Apply the appropriate PTF:

<table>
<thead>
<tr>
<th>Product and version</th>
<th>PTF</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOADPLUS 11.1.00</td>
<td>BPU8753</td>
</tr>
<tr>
<td>LOADPLUS 11.2.00</td>
<td>BPU8754</td>
</tr>
<tr>
<td>UNLOAD PLUS 11.1.00</td>
<td>BPU8829</td>
</tr>
<tr>
<td>UNLOAD PLUS 11.2.00</td>
<td>BPU8831</td>
</tr>
</tbody>
</table>

BMC recommends using BMC Internet Service Retrieval (ISR) to obtain PTFs. For information about ISR, see the maintenance information in the *Installation System Reference Manual*.

You can also obtain PTFs from eFix PTF Distribution Services (eFix). You can access eFix directly at [http://efix.bmc.com](http://efix.bmc.com) or from the support site. For information about eFix, see the online Help.

2. Create the BMCNGTCT and BMCNGTTT tables to which the utility will write:
Note

Table BMCNGTCT will contain summarized information about the use of incompatible keywords. The primary purpose of this table is to report summary usage information to BMC Software. Table BMCNGTTT will contain details that you can use to identify jobs that contain incompatible keywords, and the users who run those jobs.

a Copy the following DDL to your system:

```
CREATE DATABASE BMCNGTCR ;
COMMIT ;
CREATE TABLESPACE BMCNGTCS IN BMCNGTCR
DSSIZE 1G
USING STOGROUP SYSDEFLT
PRIQTY -1
SECQTY -1
MAXPARTITIONS 1
FREEPAGE 20
PCTFREE 10
COMMIT ;
CREATE TABLESPACE BMCNGTTS IN BMCNGTCR
DSSIZE 1G
USING STOGROUP SYSDEFLT
PRIQTY -1
SECQTY -1
MAXPARTITIONS 1
FREEPAGE 20
PCTFREE 10
COMMIT ;
CREATE TABLE BMCNGTCR.BMCNGTCT (
  UTILNAME CHAR (8) ,
  STARTTS TIMESTAMP ,
  ENDTTS TIMESTAMP ,
  COUNT INTEGER ,
  FUNCTION VARCHAR (60)
) IN BMCNGTCR.BMCNGTCS ;
COMMIT ;
CREATE UNIQUE INDEX BMCNGTCR.BMCNGTCI ON BMCNGTCR.BMCNGTCT (UTILNAME, FUNCTION)
USING STOGROUP SYSDEFLT
PRIQTY -1
SECQTY -1
NOT PADDED
FREEPAGE 20
PCTFREE 10
COMMIT ;
CREATE TABLE BMCNGTCR.BMCNGTTT (
  UTILNAME CHAR (8) ,
  JOBNAME CHAR (8) ,
  UTILID CHAR (16) ,
  AUTHID CHAR (8) ,
  STEPNAME CHAR (8) ,
  PROCSTNM CHAR (8)
) ;
```
b (optional) If necessary, change the names for the following objects in the DDL (for example, BMCNGTCR for the database) to names that are meaningful to your organization:

- Database
- Table spaces
- Storage group
- Index
- Tables
- Creator

c Change productPlanQualifier in the SET CURRENT SQLID statement to the product plan qualifier that was defined during installation.

d If you have additional products or product plan qualifiers, include a SET CURRENT SQLID statement and the two CREATE SYNONYM statements for each qualifier.

e Before running the DDL, check the following guidelines and edit your DDL if necessary:

- BMC recommends that you do not change the DDL for table space BMCNGTTTS (other than the table space or storage group name).

- Do not add a unique index to table BMCNGTTT. Doing so would likely result in meaningless data in that table.

f Run the DDL to create your tables and synonyms.

The synonyms automatically enable the feature. To obtain the most thorough information across your enterprise, BMC recommends that you keep this feature enabled during periods of typical load and unload activity.

**Note**
To turn the feature off, drop the synonyms. The content of the tables will remain intact. To turn the feature on again, create the synonyms again.
Using the compatibility output

You can run queries against the compatibility feature's tables to provide information that can help you with your transition to BMC NGT products. Sample queries for UNLOAD PLUS follow, but BMC encourages you to customize them to your needs and to add queries for LOADPLUS.

The following query provides a count of incompatible functions. The count is reported from the syntax of executed jobs with utility name UNLOAD and from ADU$OPTS options modules that the executed jobs used:

```
--UNLOAD PLUS INFORMATION FROM BOTH TABLES
-----------------------------------------------------------------------
SELECT A.UTILNAME, SUBSTR(A.FUNCTION,1,25) AS FUNCTION,
       COUNT(*) AS COUNT
FROM BMCNGTCR.BMCNGTCT AS A LEFT OUTER JOIN BMCNGTCR.BMCNGTTT AS B
ON   A.UTILNAME = B.UTILNAME  AND A.FUNCTION = B.FUNCTION
WHERE A.UTILNAME IN ('ADU$OPTS','UNLOAD')
GROUP BY A.UTILNAME, A.FUNCTION;
-----------------------------------------------------------------------
```

The following figure illustrates sample output from this query:

- The **UTILNAME** field indicates the name of the options module (ADU$OPTS) or the utility name from the JCL (UNLOAD).
- **FUNCTION** describes the incompatible function.
- **COUNT** provides the number of instances of that function found for all utility executions that used that options module or utility name.

<table>
<thead>
<tr>
<th>UTILNAME</th>
<th>FUNCTION</th>
<th>COUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>ADU$OPTS</td>
<td>1</td>
</tr>
<tr>
<td>2.</td>
<td>ADU$OPTS</td>
<td>1</td>
</tr>
<tr>
<td>3.</td>
<td>ADU$OPTS</td>
<td>1</td>
</tr>
<tr>
<td>4.</td>
<td>ADU$OPTS</td>
<td>1</td>
</tr>
<tr>
<td>5.</td>
<td>ADU$OPTS</td>
<td>1</td>
</tr>
<tr>
<td>6.</td>
<td>UNLOAD</td>
<td>12</td>
</tr>
<tr>
<td>7.</td>
<td>UNLOAD</td>
<td>575</td>
</tr>
<tr>
<td>8.</td>
<td>UNLOAD</td>
<td>31</td>
</tr>
<tr>
<td>9.</td>
<td>UNLOAD</td>
<td>623</td>
</tr>
<tr>
<td>10.</td>
<td>UNLOAD</td>
<td>15</td>
</tr>
<tr>
<td>11.</td>
<td>UNLOAD</td>
<td>163</td>
</tr>
<tr>
<td>12.</td>
<td>UNLOAD</td>
<td>8</td>
</tr>
<tr>
<td>13.</td>
<td>UNLOAD</td>
<td>15</td>
</tr>
<tr>
<td>14.</td>
<td>UNLOAD</td>
<td>6</td>
</tr>
</tbody>
</table>

SUCCESSFUL RETRIEVAL OF 14 ROW(S)

The following query reports incompatibilities found only in options modules with names that begin with ADU that the executed jobs used:

```
--UNLOAD PLUS OPTIONS MODULE INCOMPATIBILITIES
```
Providing the compatibility output to BMC

Reporting information to BMC can help BMC prioritize continuing development efforts. If you need additional assistance, contact BMC Customer Support.

To provide the compatibility output to BMC

1. Create a DSN1COPY of both table spaces.
2. Open an issue with BMC Customer Support.
   
   **Note**
   
   If you have already opened an issue related to the compatibility reporting feature (for example, if you opened an issue for assistance in creating the tables), use the same issue.

4. Follow the FTP instructions to upload your DSN1COPYs.

Where to get the latest product information

To view the latest BMC documents, see the Support Central website at http://www.bmc.com/support.

Notices such as flashes, technical bulletins, and release notes are available on the website. You can subscribe to proactive alerts to receive e-mail messages when
notices are issued or updated. For more information about proactive alerts, see the Support Central website.

© Copyright 2016 BMC Software, Inc.

BMC, BMC Software, and the BMC Software logo are the exclusive properties of BMC Software, Inc., are registered with the U.S. Patent and Trademark Office, and may be registered or pending registration in other countries. All other BMC trademarks, service marks, and logos may be registered or pending registration in the U.S. or in other countries. All other trademarks or registered trademarks are the property of their respective owners.

DB2 is a trademark or registered trademark of International Business Machines Corporation in the United States, other countries, or both.

The information included in this documentation is the proprietary and confidential information of BMC Software, Inc., its affiliates, or licensors. Your use of this information is subject to the terms and conditions of the applicable End User License agreement for the product and to the proprietary and restricted rights notices included in the product documentation.

BMC SOFTWARE INC
2103 CITYWEST BLVD, HOUSTON TX 77042-2827, USA
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