BMC is announcing a new feature in the REORG PLUS for DB2 product that reports compatibility with the BMC Next Generation Technology Reorg for DB2 for z/OS (NGT Reorg) product.

Overview of the compatibility reporting feature

When you run REORG PLUS, it uses the compatibility reporting feature to analyze your job and identify any functions that are not compatible with NGT Reorg. Specifically, REORG PLUS identifies incompatible:

- Installation options (for example, ARCHFORMAT)
- Syntax options (for example, DEADLINE)
- Object types or other product features (for example, XML objects)

**Note**

REORG PLUS reports a function of *compatible* for those job steps that have no incompatibilities.

REORG PLUS 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 user needs
BMC plans to add *transparency functionality* to the equivalent NGT products. Transparency functionality will enable you to use much of your current REORG PLUS JCL with NGT Reorg. Compatibility reporting identifies only functions that will be deemed incompatible by the transparency functionality when it becomes available.

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**Enabling the compatibility reporting feature**

Use the following procedure to enable compatibility reporting by applying the PTF and creating the tables to which REORG PLUS will write.

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**Note**

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

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**To enable the compatibility reporting feature**

1. **Apply PTF BPU8692.**

   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 REORG PLUS will write:**

   **Note**

   These tables will contain the following information:

   - 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.
You might have already created these tables if you enabled compatibility reporting for LOADPLUS for DB2 or UNLOAD PLUS for DB2. For more information, see the LOADPLUS and UNLOAD PLUS technical bulletin dated April 8, 2016.

a Copy the following DDL to your system:

```sql
CREATE DATABASE BMCNGTCSR ;
COMMIT ;
CREATE TABLESPACE BMCNGTCS IN BMCNGTCSR
DSSIZE 1G
USING STOGROUP SYSDEFLT
PRIQTY -1
SECQTY -1
MAXPARTITIONS 1
FREEPAGE 20
PCTFREE 10
COMMIT ;
CREATE TABLESPACE BMCNGTTS IN BMCNGTCSR
DSSIZE 1G
USING STOGROUP SYSDEFLT
PRIQTY -1
SECQTY -1
MAXPARTITIONS 1
FREEPAGE 20
PCTFREE 10
COMMIT ;
CREATE TABLE BMCNGTCSR.BMCNGTCT (  
    UTILNAME CHAR (8) ,
    STARTTS TIMESTAMP ,
    ENDTS TIMESTAMP ,
    COUNT INTEGER ,
    FUNCTION VARCHAR (60) )
IN BMCNGTCSR.BMCNGTCS ;
COMMIT ;
CREATE UNIQUE INDEX BMCNGTCSR.BMCNGTCI
ON BMCNGTCSR.BMCNGTCT (UTILNAME, FUNCTION)
USING STOGROUP SYSDEFLT
PRIQTY -1
SECQTY -1
NOT PADDED
FREEPAGE 20
PCTFREE 10 ;
COMMIT ;
CREATE TABLE BMCNGTCSR.BMCNGTTT (  
    UTILNAME CHAR (8) ,
    JOBNAME CHAR (8) ,
    UTILID CHAR (16) ,
    AUTHID CHAR (8) ,
    STEPNAME CHAR (8) ,
    PROCSTNM CHAR (8) ,
    STARTTS TIMESTAMP ,
    ENDTS TIMESTAMP )
```
COUNT INTEGER,
FUNCTION VARCHAR (60)
)
IN BMCNGTCR.BMCNGTTS
;
COMMIT
;

SET CURRENT SQLID = 'productPlanQualifier';
CREATE SYNONYM BMC_NGTCOMPAT FOR BMCNGTCR.BMCNGTCT
;
CREATE SYNONYM BMC_NGTTRANS FOR BMCNGTCR.BMCNGTTT
;

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 BMCNGTTS (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 reorganization activity.

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**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 Reorg. Sample queries for REORG PLUS follow.

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

```
--REORG 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 ('ARU$OPTS','REORG')
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 (ARU$OPTS) or the utility name from the JCL (REORG).
- **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.

```
+----------+--------------------------------+------+
| UTILNAME | FUNCTION                        | COUNT|
+----------+--------------------------------+------+
| ARU$OPTS | ARCHFORMAT BMC                  | 1    |
| ARU$OPTS | COMPATIBLE                      | 1    |
| REORG    | ANALYZE ONLY                    | 4    |
| REORG    | BMCSSTATS YES                   | 162  |
| REORG    | COMPATIBLE                      | 15   |
| REORG    | DDLIN DD                        | 8    |
| REORG    | DSRSEXIT                        | 4    |
| REORG    | MAPPINGTABLE                    | 27   |
| REORG    | MAXRO DEFER                     | 147  |
| REORG    | ON FAIL UNLOAD TERM             | 8    |
| REORG    | ON MESSAGE 50251 CON            | 8    |
| REORG    | ORIGINADISP RENAME              | 27   |
| REORG    | REBALANCE                       | 20   |
| REORG    | REFERENCE UNLOADONLY            | 3    |
| REORG    | SHRLEVEL NONE                   | 66   |
| REORG    | SHRLEVEL REFERENCE              | 68   |
| REORG    | SYSIDCIN DD                     | 24   |
| REORG    | TIMEOUT TERM                    | 19   |
| REORG    | UNLOAD PAUSE                    | 2    |
+----------+--------------------------------+------+
SUCCESSFUL RETRIEVAL OF 19 ROW(S)
```
The following query reports incompatibilities found only in options modules with names that begin with ARU that the executed jobs used:

```
-- REORG PLUS OPTIONS MODULE INCOMPATIBILITIES

SELECT *
FROM BMCNGTCR.BMCNGTCT
WHERE UTILNAME LIKE 'ARU%';
```

The following query reports incompatibilities found at the step-name level for the executed jobs that have a utility name of REORG:

```
-- ALL REORG PLUS INCOMPATIBILITIES AT STEPNAME LEVEL

SELECT JOBNAME, STEPNAME, UTILNAME, SUBSTR(FUNCTION,1,25), COUNT(*)
FROM BMCNGTCR.BMCNGTTT
WHERE UTILNAME = 'REORG'
GROUP BY JOBNAME, STEPNAME, UTILNAME, FUNCTION;
```

## 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.

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