BMC is releasing version 12.1.00 of the BMC Next Generation Technology Check for DB2 for z/OS (NGT Check) product.

NGT Check is available as a stand-alone product and as a component of the following solutions:

- BMC High Speed Utilities for DB2
- BMC Recovery for DB2
- BMC Next Generation Technology Utility Suite Accelerator 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 ................................................................. 2
- Installation of NGT products ................................ 2
- Installation System changes ................................. 2
- Authorization ID .................................................... 3
- Synonyms ................................................................. 3
- Component and library names ............................ 3
- Concurrent access control .................................. 3
- New component requirement ............................... 4
- Maintenance listing .............................................. 4
- SQL functionality .................................................. 4
- Utility parameters .................................................. 4
- Support for IBM DB2 Version 12 ....................... 5
- Installation and maintenance ............................... 5
What's new

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

Installation of NGT products

You now use the BMC Installation System to install and configure the NGT products.

Use the following documentation to assist you in installing, configuring, and customizing the NGT products:

- *Installation System Quick Start*
- *Installation System Reference Manual*
- *BMC Products and Solutions for DB2 Customization Guide*

The *BMC Next Generation Technology Installation Guide* is now obsolete.

Installation System changes

Beginning with version 3.1.00 of the Installation System, new product releases necessitate a new Installation System FMID. Before installing any products, always ensure that you have the most recent version of the Installation System installed and that you have refreshed its runtime environment.

This change enables PTF maintenance for individual levels of the Installation System. The change also eliminates the requirement to provide the Installation Maintenance Value, which simplifies the installation process.

For more information, see the release notes for the most current version of the Installation System.
Authorization ID

The NGT products now enable you to use the DBM1 authorization ID.

Synonyms

The NGT products now use aliases instead of synonyms.

Component and library names

Many of the NGT product components and libraries with names beginning with CDB have been renamed to begin with NGT.

In most cases, the name change only substitutes NGT for CDB (for example, CDBDISP is now NGTDISP). CDBEXEC is the exception in that it has been renamed to NGTAUTO. These name changes are reflected in the NGT messages and in the documentation.

Concurrent access control

The following products now use the BMCUTIL and BMCSYNC common tables to control concurrent access to the objects on which they operate. Using these tables does not replace using the BMC Next Generation Technology (NGT) Matrix and the utility internal databases (IDBs).

- NGT Check
- NGT Load
- NGT Reorg
- NGT Stats
- NGT Unload

As part of this enhancement, you can use the NGTDISP utility to display entries from these two tables. For more information about the new options to specify with NGTDISP, see the BMC Next Generation Technology General User Guide.

BMC provided this enhancement for version 11.2 via BMC PTFs BPU8370, BPU8384, and BPJ1316.
New component requirement

The NGT products now use the DB2 Solution Common Code (SCC) component. SCC is installed when you install the NGT products.

BMC introduced this requirement for version 11.2 via BMC PTFs BPU8370, BPU8384, and BPJ1316.

Maintenance listing

Each NGT product now reports the BMC maintenance that has been applied for that product. This information appears in your CDBPRINT.

SQL functionality

The following products now enable you to use an SQL-like language known as NGT SQL:
- NGT Check
- NGT Load
- NGT Reorg
- NGT Unload
- NGT Utility Manager

The NGT utility products use NGT SQL for such specifications as WHERE or WHEN clauses, SELECT lists, and indexes on expression. For more information, see the BMC Next Generation Technology General User Guide.

Utility parameters

This release adds the following new NGT utility parameters (UTLPARMS):

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ALLERROR</td>
<td>Enables you to set the behavior of SYSERROR</td>
</tr>
<tr>
<td>+DSNUTILB</td>
<td>Specifies whether to enable NGT Reorg to invoke DSNUTILB when needed</td>
</tr>
<tr>
<td>+IGNOBJSETPARTS</td>
<td>Specifies whether to disregard partition numbers defined in object sets</td>
</tr>
<tr>
<td>+LOGPDS</td>
<td>Overrides the default log data set name</td>
</tr>
<tr>
<td>+NGTAUTO1</td>
<td>Overrides the default NGT automation data set name</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>+NGTAUTO2</td>
<td>Enables you to configure a second NGT automation data set</td>
</tr>
<tr>
<td>+NGTCHKPT</td>
<td>Overrides the default NGT checkpoint data set name</td>
</tr>
<tr>
<td>+NGTSVR</td>
<td>Overrides the default name of the NGT server JCL data set</td>
</tr>
<tr>
<td>+OBJSETSTOGROUP</td>
<td>Defines the storage group that NGT utilities use to store temporary objects</td>
</tr>
<tr>
<td>+OVERRIDEOUTPUT</td>
<td>Specifies whether NGT automation control points override OUTPUT command values</td>
</tr>
<tr>
<td>+USER1 and +USER2</td>
<td>Define user-defined variables that you can use with certain configuration parameters</td>
</tr>
<tr>
<td>+XBMID</td>
<td>Specifies which XBM subsystem to use when NGT Load invokes NGT Copy</td>
</tr>
</tbody>
</table>

For more information about these parameters, see the *BMC Next Generation Technology General User Guide*.

**Support for IBM DB2 Version 12**

This release adds support for DB2 Version 12.

This release supports:

- DB2 Version 12
- DB2 Version 11
- DB2 Version 10 in new-function mode (NFM) only

**Installation and maintenance**

You install NGT Check by using the Installation System.

**Installing the Installation System or a product**

The Installation System is installed and maintained by using SMP/E. Installing the Installation System creates the required SMP/E environment. Use the following procedures to install the Installation System or products.
Before you begin

If you need more information, see these sources:

- For software, hardware, and other requirements, see the Installation System documentation.

- For information about installation changes, see the Installation System release notes.

If you prefer physical installation media instead of downloaded images, request physical media from your BMC sales representative. Contact information is available on the BMC website.

To install the Installation System

1. Review the most recent Installation System release notes on any product page from the A-Z Supported Product List on Support Central.


3. Click Installation System.

4. Click the method you want to use to obtain the Installation System, and follow the provided procedures.

   WARNING
   The Installation System must be installed into its own SMP/E zone. You should not install anything else into this zone.

To install a product

1. Ensure that you have the most recent version of the Installation System installed and that it has any required PTFs applied.
   To determine the most recent version number, see the most recent Installation System release notes on any product page from the A-Z Supported Product List on Support Central. To determine the version number of your current Installation System, see the title line on the Installation System Main Menu. Required PTFs are announced in technical bulletins.

2. Start the Installation System.

3. Follow the on-screen prompts.
   For more information, see the Installation System documentation.
Maintaining the Installation System or a product

Use the following procedures to maintain the Installation System or products.

To maintain the Installation System

1. Perform one of the following actions:
   - If you have the most recent version of the Installation System installed, apply any required PTFs.
   - Install the most recent version of the Installation System, and apply any required PTFs.

   To determine the most recent version number, see the most recent Installation System release notes on any product page from the A-Z Supported Product List on Support Central. To determine the version number of your current Installation System, see the title line on the Installation System Main Menu. Required PTFs are announced in technical bulletins.

2. Refresh the Installation System runtime data sets by running the $205RTEC and $206RTEC jobs (in order).

3. Restart the Installation System.

To maintain a product

1. Check Support Central for product notices, such as technical bulletins about fixes and Recommended Service Level (RSL) availability.

2. Use BMC ISR (recommended) to obtain product PTFs and RSLs.

3. Run the $176APLF installation job to ensure that all required FMIDs are applied.

4. Apply the product maintenance to the product's SMP/E environment.
   For more information, see Installation System Reference Manual.

FMID and version information

NGT Check uses version 3.1.00 (or more recent) of the Installation System.
Always use the most recent version of the Installation System and ensure that it has any required PTFs applied.

To determine the most recent version number, see the most recent Installation System release notes on any product page from the A-Z Supported Product List on Support Central. To determine the version number of your current Installation System, see the title line on the Installation System Main Menu. Required PTFs are announced in technical bulletins.

Installation installs the following versions and SMP/E FMIDs:

<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++ V71</td>
<td>7.1.00</td>
</tr>
<tr>
<td>BBASC70</td>
<td>SAS_C V70B</td>
<td>7.0.00</td>
</tr>
<tr>
<td>ZACPC10</td>
<td>BMC NGT COPY for DB2</td>
<td>12.1.00</td>
</tr>
<tr>
<td>ZAFRC10</td>
<td>BMC NGT RECOVER for DB2</td>
<td>12.1.00</td>
</tr>
<tr>
<td>ZAIN031</td>
<td>Install Execution Code</td>
<td>3.1.00</td>
</tr>
<tr>
<td>ZATSC10</td>
<td>BMCSTATS API</td>
<td>12.1.00</td>
</tr>
<tr>
<td>ZAUP241</td>
<td>BMCSORT</td>
<td>2.4.01</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>ZDIG1A0</td>
<td>DIGNUS C runtimes and C++ objects</td>
<td>1.10.00</td>
</tr>
<tr>
<td>ZDIG190</td>
<td>DIGNUS C runtimes and C++ objects</td>
<td>1.9.00</td>
</tr>
<tr>
<td>ZNGTC10</td>
<td>NEXT GENERATION TECHNOLOGY</td>
<td>12.1.00</td>
</tr>
<tr>
<td>ZPWD330</td>
<td>BMC Password Security System</td>
<td>3.3.00</td>
</tr>
<tr>
<td>ZSCCC10</td>
<td>Solution Common Code</td>
<td>12.1.00</td>
</tr>
<tr>
<td>ZZIOC10</td>
<td>DB2 Options Carryover</td>
<td>12.1.00</td>
</tr>
</tbody>
</table>

The preceding table contains the FMIDs for NGT Check 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:
  - Optimization products, common products, and common components
  - BMC products for IBM DB2
— BMC products for IBM IMS
— MainView products

To access the reports on Support Central, take the following steps:


2. Click Product codes and FMIDs.

3. Click one of the listed reports.

### 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.

© Copyright 2016 BMC Software, Inc.

BMC, BMC Software, the BMC logo, the BMC Software logo, and other BMC marks are the exclusive properties of BMC Software, Inc. and are registered or may be registered in the U.S. and in other countries. BladeLogic and other BladeLogic marks are the exclusive properties of BladeLogic, Inc. and are registered or may be registered in the U.S. and in other countries. All other trademarks or registered trademarks are the property of their respective owners. DB2, IBM, IMS, and z/OS are trademarks or registered trademarks 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