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

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:

What’s new ............................................................................................................. 2
Timestamp columns ............................................................................................ 2
Additional DB2 Version 10 support ................................................................. 3
Clone objects ....................................................................................................... 3
Ability to cancel threads .................................................................................... 3
Additional output messages data set ............................................................... 5
Message severity code changes ...................................................................... 5
MSGSEV option ................................................................................................. 6
ACFORTSS removal ......................................................................................... 6
System and software requirements .................................................................. 6
End of support for DB2 8, DB2 9 CM, and DB2 10 CM8 ............................... 6
Documentation ................................................................................................ 7
Installation ........................................................................................................... 7
Requirements ................................................................................................. 7
Installation changes ......................................................................................... 7
FMID and version information ....................................................................... 8
Maintenance .................................................................................................... 9
Support status ................................................................................................. 9
Product documentation .................................................................................. 10
Customer support ......................................................................................... 10
What’s new

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

Timestamp columns

CHECK PLUS now supports the following timestamp columns:

- Timestamp columns that are defined as TIMESTAMP WITH TIME ZONE
- Timestamp columns that are defined with a precision other than 6

In addition to checking these columns, this enhancement includes the following capabilities:

- When including a timestamp constant on a predicate, you can specify a precision (number of microseconds) other than 6 or a time zone.
- A new command option, IMPLICIT_TZ, enables you to specify a global time zone. When comparing a timestamp to a column that is defined as TIMESTAMP WITH TIME ZONE, CHECK PLUS uses this global time zone if the predicate does not include a time zone.

 NOTE
You cannot include WITH TIME ZONE on a CURRENT TIMESTAMP specification. However, you can use IMPLICIT_TZ to provide a time zone for this comparison.

The syntax for this option is as follows:

```
IMPLICIT_TZ 'timeZoneString'
```

Specify a time zone, within quotation marks, as the difference between local time and Coordinated Universal Time (UTC). You can specify a value from -12:59 through +14:00. If CHECK PLUS expects a time zone and you do not specify one explicitly on the comparison value or with this option, CHECK PLUS uses the IMPLICIT_TIMEZONE DSNHDECPS value.
Additional DB2 Version 10 support

CHECK PLUS now supports the following IBM® DB2 Version 10 objects:

- Temporal tables and indexes on those tables
- Indexes that contain non-key columns
- Universal table spaces that are defined with MEMBER CLUSTER

Clone objects

CHECK PLUS now checks clone objects. To support this functionality, this release includes a new CLONE keyword. You can specify this keyword at any point in the syntax after the primary CHECK TABLESPACE, CHECK INDEX, or CHECK DATA command.

**NOTE**

You cannot specify CLONE on the CHECK DATA command if referential constraints exist on a table in the specified table space or table space set.

Ability to cancel threads

You can now tell CHECK 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
The following new command option, FORCE, enables this functionality:

- FORCE ALL tells CHECK PLUS to cancel both read and write claimers at the point specified by the FORCE_AT option.
- FORCE REPORTONLY tells CHECK PLUS to display a report of the threads that it would have canceled if you had specified FORCE ALL. When reporting which threads it would have canceled, CHECK PLUS takes into account the current values of FORCE_AT and FORCE_DELAY.
- FORCE_AT START tells CHECK PLUS to start canceling threads when the drain request begins.
- FORCE_AT RETRY tells CHECK PLUS to start canceling threads the first time the drain process times out and CHECK PLUS attempts to retry the drain.
- FORCE_AT LASTRETRY tells CHECK PLUS to start canceling threads at the beginning of the last retry attempt following a drain process timeout.
- The FORCE_DELAY option tells CHECK PLUS how long to wait, in hundredths of a second, before starting the thread cancelation process. For example, specify 7 to tell CHECK PLUS to wait .07 seconds.
- The FORCE_RPT option tells CHECK PLUS whether to display a thread cancelation report. If you specify YES and a BMCFORCE DD statement exists in your JCL, CHECK PLUS sends the report to that data set. If you do not specify a BMCFORCE DD statement in your JCL, CHECK PLUS sends the report to your SYSPRINT.

The following new installation options provide defaults for these command options:

- FORCE
- FORCE_AT (which consists of two parameters, the second of which corresponds to the FORCE_DELAY option of the FORCE option)
- FORCE_RPT
Additional output messages data set

You can now send CHECK 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.

Message severity code changes

Severity codes for the following messages have changed. These changes might affect the completion code of your check jobs:

- For the following message, the severity code has changed from I to U:
  - BMC52421

- For the following messages, the severity code has changed from I to S:
  - BMC52406
  - BMC52425
  - BMC52435
  - BMC52437
  - BMC52539

- For the following messages, the severity code has changed from E to S:
  - BMC52474
  - BMC52478
  - BMC52564
  - BMC52565
  - BMC52572
  - BMC52573
MSGSEV option

Documentation about the MSGSEV option is incorrect. You can use the MSGSEV option to change or omit the severity indicator only on a message in the stated range whose original indicator is I (an informational message).

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 CHECK PLUS has the following changes to minimum requirements from version 10.1.00 of CHECK 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, CHECK PLUS does not support DB2 Version 8. Earlier releases will continue to support Version 8.

Future releases of CHECK PLUS will not support the following modes:

- DB2 Version 9 CM
- DB2 Version 10 CM8
Documentation

The CHECK PLUS for DB2 Reference Manual was not updated for this release; you can use the information in these release notes along with the reference manual for CHECK PLUS version 10.1.

In addition, 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

Installation

Download the latest version of the CHECK 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.

NOTE

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

CHECK 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.
This release of CHECK 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>ZACKA20</td>
<td>CHECK 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 runtimes 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 CHECK 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.

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**Maintenance**

After you install CHECK 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.

**NOTE**

Before applying maintenance, ensure that you have completed the $B76APLF 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.
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.

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