BMC is releasing version 11.2.00 of the BMC High Speed Utilities for DB2 solution.

BMC High Speed Utilities includes the following products:

- BMCSTATS component of DASD MANAGER PLUS for DB2
- CHECK PLUS for DB2
- COPY PLUS for DB2
- LOADPLUS for DB2
- RECOVER PLUS for DB2
- REORG PLUS for DB2
- SNAPSHOT UPGRADE FEATURE of EXTENDED BUFFER MANAGER for DB2
- UNLOAD PLUS for DB2
- BMC Workbench 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:

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What's new

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

BMC High Speed Utilities for DB2 version 11.2.00

Version 11.2.00 of the High Speed Utilities for DB2 solution includes the following changes.

Solution components

This version of the solution includes a new release of the following components:

- BMCSTATS
- CHECK PLUS
- COPY PLUS
- LOADPLUS
- RECOVER PLUS
- REORG PLUS
- SNAPSHOT UPGRADE FEATURE
- UNLOAD PLUS

In addition, the solution now includes BMC Workbench for DB2.
End of support for DB2 versions

Starting with this release, the High Speed Utilities for DB2 solution does not support Version 9 of the IBM DB2 database management system. In addition, this solution supports DB2 Version 10 only in new-function mode.

Earlier releases will continue to support Version 9 and other modes of DB2 Version 10.

Documentation changes

This release includes the following documentation changes:

- In addition to the Installation System Reference Manual, BMC now provides the Installation System Quick Start, which enables you to quickly install the product with the Installation System.

- The name of the BMC Products and Solutions for DB2 Configuration Guide has changed to BMC Products and Solutions for DB2 Customization Guide.

BMC Documentation Center changes

The primary BMC Documentation Center is now available without a support login. This center offers:

- Documentation and Quick Courses for all products except Cost Optimization products

- Messages for all products, including Cost Optimization products

A new, secured Cost Optimization Documentation Center offers documentation and Quick Courses for the following products:

- BMC Application Accelerator for IMS
- BMC Cost Analyzer for zEnterprise (CAzE)
- BMC Intelligent Capping for zEnterprise (iCap)
- BMC Subsystem Optimizer for zEnterprise (Subzero)

Note

You must log in using your BMC Support ID to access the Cost Optimization Documentation Center.

To access the Documentation Centers, go to:

- BMC Documentation Center
- BMC Cost Optimization Documentation Center
BMCSTATS version 11.2.00

Version 11.2.00 of the BMCSTATS component includes the following changes:

- **Additional zIIP offloads**
  BMCSTATS offloads additional eligible workloads to utilize the IBM System z Integrated Information Processor (zIIP), reducing the Total Cost of Ownership (TCO). You can enable zIIP offloading globally through the zIIP=E default options specification, or you can define options through the zIIP E syntax.

- **REPEATABLE keyword**
  BMCSTATS page sampling now includes a specified seed value through the usage of the REPEATABLE keyword. Usage of a default or specified seed value enables the page sampling algorithm to ensure that repeated executions of BMCSTATS return the same results.

- **Non Partition Index (NPI) key monitoring**
  NPI key monitoring provides storage relief during key column statistics collection for multi-data sets (MUDS) through definable parameters. BMCSTATS now provides three new keywords, NPICACHEACTION, NPICACHETHRESH, and NPICACHEDSNUM, that can be used to tune high-storage-consuming NPI objects. Values for these keywords can be globally established in the default options module (DOPTs) and can be individually overridden in the BMCSTATS syntax.

- **RESET ACCESSPATH option**
  BMCSTATS supports a new RESET ACCESSPATH option that resets the access path statistics for all tables and indexes for the specified table space on the BMCSTATS statement.

- **RESETHISTORY option**
  BMCSTATS supports a new RESETHISTORY option. When you use RESET ACCESSPATH, RESETHISTORY ACCESSPATH, BMCSTATS inserts a row for each object in SYSIBM.SYSTABLES_HIST and SYSIBM.SYSINDEXES_HIST to indicate that a reset has been performed.

- **Ability to suppress null indexes**
  BMCSTATS supports suppressing null indexes. All table statistics derived from an index defined with the EXCLUDE NULL KEYS clause are adjusted by the number of excluded NULL values.

CHECK PLUS for DB2 version 11.2.00

Version 11.2.00 of CHECK PLUS includes the following changes.
**RREPL status**

CHECK PLUS now supports read-or-replication-only (RREPL) status.

**Updated indexes**

CHECK PLUS now supports indexes in which updated entries remain in their original position on the page.

**System and software requirements**

This version of CHECK PLUS has the following changes to minimum requirements from version 11.1.00:

- DB2 Solution Common Code (SCC) version 11.1.00 with current maintenance
- DB2 Utilities Common Code (D2U) version 11.2.00

**COPY PLUS for DB2 version 11.2.00**

Version 11.2.00 of COPY PLUS includes the following changes.

**Native support for SHRLEVEL CHANGE RESETMOD YES copies**

Previous releases of COPY PLUS called DSNUTILB to make SHRLEVEL CHANGE RESETMOD YES copies. COPY PLUS can now make these copies natively with the new SLCHRESET option.

**Online consistent copies for LOBs**

Starting with this release, COPY PLUS can make online consistent copies of large object (LOB) spaces.

**Tagged copies for migration**

In the previous release, running EXPORT to identify copies for migration did not always clearly identify which copies were exported, especially if the copies were made in multiple jobs. With the new TAG and TAGSET options, this release allows you to "tag" copies for migration to simplify selecting copies for migration.
Support for migrating XML spaces

This release adds support for migrating XML spaces by using image copies.

Support for migrating statistics

This release adds support for migrating statistics with the new EXPORT STATS option.

EXPORT file for MIGRATE without copies on the target

In the previous release, when creating an EXPORT file for MIGRATE, COPY PLUS required that copies exist on the target system for the spaces to be migrated, even though those copies would not be used. This release allows EXPORT for MIGRATE without requiring copies on the target.

Incremental copies with Instant Snapshots

This release adds support for making incremental copies based on full Instant Snapshot copies.

Ability to register LP Instant Snapshots like DB2 FlashCopies

In previous releases, COPY PLUS registered Instant Snapshot copies in BMCXCOPY. Starting with this release, COPY PLUS registers LP Instant Snapshots in SYSCOPY to enable use by either RECOVER PLUS or the DB2 RECOVER utility.

COPY IMAGE COPY of LOBs from system backups

This release adds support for making standard copies of LOB spaces from system backups.

Use of real-time statistics to size objects and estimate changed pages

This release uses DB2 real-time statistics to size objects to be copied and to estimate the number of changed pages.

Instant Snapshots of DB2 catalog

This release adds support for making Instant Snapshot copies of the DB2 catalog.
**Replacement of NSCMAIN by the CONSISTENT YES option**

In previous releases, you had to execute the NSCMAIN program to make online consistent copies. Now, you can make online consistent copies by executing ACPMAIN with the CONSISTENT YES option. This release continues to support NSCMAIN, but BMC plans to deprecate NSCMAIN in the next release.

**New AUX ALL option**

In previous releases, AUX YES copied history tables and auxiliary spaces. This release uses the HISTORY option to copy history tables and adds AUX ALL to copy all of the auxiliary spaces.

**Support for persistent read only (PRO) and read-or-replication-only (RREPL) statuses**

This release adds support for PRO and RREPL statuses.

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**LOADPLUS *for DB2* version 11.2.00**

Version 11.2.00 of LOADPLUS includes the following changes.

**Spanned data**

You can now load LOB and XML data, including inline LOB data, to a standard VBS data set.

To enable this feature, you specify the FORMAT SPANNED YES option. For more information, see the *LOADPLUS for DB2 Reference Manual*.

*Note*

PTFs BPU6680 and BPU6692 provided this functionality for version 11.1.00. For more information, see the technical bulletin dated October 31, 2014.

**Inline LOB data**

LOADPLUS now loads inline LOB data natively. (Earlier versions invoked DSNUTILB.)

This feature requires the new FORMAT SPANNED YES option.
Note
PTFs BPU6680 and BPU6692 provided this functionality for version 11.1.00. For more information, see the technical bulletin dated October 31, 2014.

Installation options for DSNUTILB load jobs

LOADPLUS no longer requires or supports the individual installation options for each feature that requires invoking DSNUTILB. However, you must still specify DSNUTILB=YES when the feature requires it.

This enhancement makes the following installation options obsolete:

- FILEVAR
- HASHAX
- IXONEX
- IXRANDOM
- LOB
- TEMPRALDATA
- UNICODE
- UTILB_COLCCSID
- UTILB_NULLIX
- XML

If your installation options module contains any of these options, the module compiles successfully but completes with return code 4 and a message indicating that the option is obsolete.

Updated indexes

LOADPLUS now supports indexes in which updated entries remain in their original position on the page.

CENTURY installation option

LOADPLUS now supplies a default value of (1950,2049) for the CENTURY installation option. (Earlier versions were not shipped with a value for this option, requiring that you supply it during installation.)

If you currently use a default value other than (1950,2049), either change the value in your installation options module after installation, or use the Installation System to migrate your current option values.
System and software requirements

This version of LOADPLUS has the following changes to minimum requirements from version 11.1.00:

- DB2 Solution Common Code (SCC) version 11.1.00 with current maintenance
- DB2 Utilities Common Code (D2U) version 11.2.00
- BMC Common Statistics component version 11.2.00

RECOVER PLUS for DB2 version 11.2.00

Version 11.2.00 of RECOVER PLUS includes the following changes.

Tagged copies for migration

In the previous release, running EXPORT to identify copies for migration did not always clearly identify which copies were exported, especially if the copies were made in multiple jobs. With the new TAG option, this release allows the user to "tag" output copies to simplify selecting copies for migration.

Support for migrating XML spaces

This release adds support for migrating XML spaces by using image copies.

Support for migrating statistics

This release adds support for migrating statistics with the new IMPORT STATS option.

New options for making output copies

With this release, you can make output copies by using inline input copies or Instant Snapshot input copies.

Rebuilding indexes with SHRLEVEL CHANGE

You can now use SHRLEVEL CHANGE to rebuild indexes.

Incremental copies with Instant Snapshots

This release adds support for using incremental copies based on full Instant Snapshot copies for recovery.
**Online consistent copies for LOBs**

RECOVER PLUS can now recover large object (LOB) spaces using online consistent copies.

**Support for CHANGE ACCUM on DB2 Version 11**

This release of RECOVER PLUS supports CHANGE ACCUM on Version 11 of the IBM DB2 database management system.

**Recovery of individual spaces using system backups**

This release adds support for recovering individual spaces by using system backups.

**Instantiated data sets for DEFINE NO**

When migrating data to a space that is DEFINE NO, RECOVER PLUS now updates the DB2 catalog and creates the cluster if it does not exist.

**Migration of partition-by-growth (PBG) spaces with more than one data set**

The new MIGRATE TOLOCATION option improves the handling of partition-by-growth spaces with more than one data set. The new option allows RECOVER PLUS to alter the number of data sets on the target system automatically.

**Support for not indexing keys that are NULL**

Starting with this release, RECOVER PLUS can omit null keys during REBUILD INDEX operations.

**Support for RBA/LRSN conversion during REBUILD INDEX**

RECOVER PLUS can now convert the RBA/LRSN format (basic-extended) during REBUILD INDEX operations.

**Support for RBA/LRSN conversion for point-in-time recovery**

RECOVER PLUS allows recovery to a point in time where the RBA/LRSN format for the partition is different from the current RBA/LRSN format.
Recover to a point in time before DROP COLUMN

This release of RECOVER PLUS checks for DROP COLUMNS and disallows recovery to a point in time before a DROP COLUMN.

Recovery to a point in time before materializing changes

RECOVER PLUS now allows recovery to a point in time before certain materializing changes (for example, DSSIZE, PGSIZE, and SEGSIZE).

INDEP OUTSPACE with OBJECTSET

You can now use INDEP OUTSPACE with the RECOVER and REBUILD commands when an object list is specified via OBJECTSET syntax.

New RICHK option

If RICHK YES is specified and a partial recovery is performed on spaces with referential integrity constraints, RECOVER PLUS now sets check pending on related spaces that were not recovered.

New AUX ALL option

In previous releases, AUX YES would recover history tables and auxiliary spaces. This release uses the HISTORY option to recover history tables and adds AUX ALL to recover all of the auxiliary spaces.

Support for persistent read only (PRO) and read-or-replication-only (RREPL) statuses

This release adds support for PRO and RREPL statuses.

REORG PLUS for DB2 version 11.2.00

Version 11.2.00 of REORG PLUS includes the following changes.

RBA and LRSN conversion

REORG PLUS now natively supports RBA or LRSN to or from extended format (by using the RBALRSN_CONVERSION command option) when you specify SHRLEVEL CHANGE.
**Note**  
PTFs BPU7461 and BPU7526 provided this functionality for version 11.1.00. For more information, see the technical bulletin dated February 16, 2015.

## Partition rebalancing

REORG PLUS now natively supports partition rebalancing when the following conditions exist:
- You are reorganizing a table-based partitioned object.
- You are running on IBM DB2 Version 11 new-function mode.

**Note**  
PTFs BPU7042 and BPJ0839 provided this functionality for version 11.1.00. For more information, see the technical bulletin dated October 13, 2014.

This enhancement required a change in limit key processing in REORG PLUS, which resulted in the following changes. For more information, see the *REORG PLUS for DB2 Reference Manual*.

- You no longer need ALTER INDEX and ALTER TABLE privileges for most reorganization jobs.
- The ALTRFAIL installation option is now obsolete.
- The CPYRFAIL installation option is now always set to COPYPEND when you are rebalancing partitions during your reorganization.
- REORG PLUS ignores the DB2 subsystem parameter PREVENT_ALTERTB_LIMITKEY for index-controlled partitioned objects.

## Pending definition changes

REORG PLUS natively materializes most pending definition changes during the reorganization.

Due to this change, the CPYRFAIL installation option is now always set to COPYPEND when REORG PLUS materializes pending definition changes.

For more information, see the *REORG PLUS for DB2 Reference Manual*.

## MAPTEXIT user exit

You can now use the MAPTEXIT user exit with DB2 Version 11. (Version 11.1 of REORG PLUS supported this user exit only with DB2 Versions 9 and 10.)
This user exit provides an automated method for supplying a mapping table when invoking DSNUTILB. For more information, see the *REORG PLUS for DB2 Reference Manual*.

**Installation options for DSNUTILB reorganization jobs**

REORG PLUS no longer requires or supports the individual installation options for each feature that requires invoking DSNUTILB. However, you must still specify DSNUTILB=YES.

This enhancement makes the following installation options obsolete:

- HASHAX
- IXONEX
- IXRANDOM
- LOB
- PENDDDL
- UTILB_COLCCSID
- UTILB_NULLIX

If your installation options module contains any of these options, the module compiles successfully but completes with return code 4 and a message indicating that the option is obsolete.

**WBUFFS option**

The second parameter of the WBUFFS installation option is now obsolete. REORG PLUS uses only the first parameter for all SYSUT1 data sets.

**RREPL status**

REORG PLUS now supports read-or-replication-only (RREPL) status. Note the following restrictions:

- REORG PLUS invokes DSNUTILB when either of the following conditions exists:
  - SHRLEVEL NONE or SHRLEVEL CHANGE is in effect.
  - Some, but not all, logical partitions of a nonpartitioned index are in RREPL status.

- REORG PLUS terminates when you specify SELECT, DELETE, or UPDATE for a partition that is in RREPL status.
Updated indexes

REORG PLUS now supports indexes in which updated entries remain in their original position on the page.

System and software requirements

This version of REORG PLUS has the following changes to minimum requirements from version 11.1.00:

- DB2 Solution Common Code (SCC) version 11.1.00 with current maintenance
- DB2 Utilities Common Code (D2U) version 11.2.00
- BMC Common Statistics component version 11.2.00

SNAPSHOT UPGRADE FEATURE of XBM version 6.2.00

Version 6.2.00 of the EXTENDED BUFFER MANAGER (XBM) for DB2 product and its SNAPSHOT UPGRADE FEATURE technology include the following changes.

Space map updates

XBM now provides space map update monitoring by utilizing snapshot technology.

This functionality enables certain features in the utilities that call XBM or SUF. For this release, space map update monitoring enables native support of the SHRLEVEL CHANGE RESETMOD YES option in the BMC COPY PLUS for DB2 product.

Statistics interval

The default statistics interval has been increased to 3600 seconds.

Device support

XBM no longer supports IBM RAMAC Virtual Array (RVA) and Oracle StorageTek Shared Virtual Array (SVA) devices.

ESO hiperspace

Use of ESO hiperspace is now obsolete.

Information about ESO hiperspace in the documentation will be removed in a future release.
UNLOAD PLUS for DB2 version 11.2.00

Version 11.2.00 of UNLOAD PLUS includes the following changes.

**Inline LOB data**

UNLOAD PLUS now allows you to unload inline LOB data when specifying DIRECT YES or DIRECT NO. (Earlier versions required DIRECT NO.)

*Note*

PTF BPU6778 provided this functionality for version 11.1.00. For more information, see the technical bulletin dated October 31, 2014.

**Spanned data**

When DIRECT YES is in effect, you can now unload LOB and XML data, including inline LOB data, to a standard VBS data set.

*Note*

This data set is a standard VBS data set whose format is similar to the IBM proprietary spanned record format. The FORMAT SPANNED YES option of the IBM DB2 LOAD utility requires that the input be in the IBM proprietary spanned record format. Therefore, you cannot use the IBM DB2 LOAD utility to load the VBS data set that UNLOAD PLUS produces.

To enable this feature, you specify the SPANNED YES option. For more information about this option, see the *UNLOAD PLUS for DB2 Reference Manual*.

*Note*

PTF BPU6778 provided this functionality for version 11.1.00. For more information, see the technical bulletin dated October 31, 2014.

**DB2 Analytics Accelerator**

When DIRECT NO is in effect, UNLOAD PLUS now optionally offloads eligible queries to the IBM DB2 Analytics Accelerator for z/OS.

You can enable this support with either the QUERY_ACCELERATION DSNZPARM, as documented in the IBM documentation, or by using the new UNLOAD PLUS option SET CURRENT QUERY ACCELERATION ALL. For more information about this option, see the *UNLOAD PLUS for DB2 Reference Manual*. 
**CENTURY installation option**

UNLOAD PLUS now supplies a default value of (1950,2049) for the CENTURY installation option. (Earlier versions were not shipped with a value for this option, requiring that you supply it during installation.)

If you currently use a default value other than (1950,2049), either change the value in your installation options module after installation, or use the Installation System to migrate your current option values.

**RREPL status**

UNLOAD PLUS now supports read-or-replication-only (RREPL) status.

**System and software requirements**

This version of UNLOAD PLUS has the following changes to minimum requirements from version 11.1.00:

- DB2 Solution Common Code (SCC) version 11.1.00 with current maintenance
- DB2 Utilities Common Code (D2U) version 11.2.00

**BMC Workbench for DB2 version 1.1.00**

Version 1.1.00 of BMC Workbench includes the following changes.

**Statistics migration**

BMC Workbench lets you migrate the access-path statistics for a set of objects from one subsystem to another, or from one schema to another within the same subsystem.

For more information, view the Quick Course "Workbench for DB2 - Migrating Statistics."

**Support for IBM DB2 Analytics Accelerator for z/OS**

BMC Workbench now lets you view lists of the following IBM DB2 Analytics Accelerator for z/OS objects:

- Accelerators associated with an IBM DB2 subsystem or DB2 data sharing group
- Tables defined to an accelerator
Packages that have been bound with an accelerator option

Index on expression

When you define a What-If index scenario during the SQL Tuning process, you can now add an index based on an expression.

Summary of enhancements since the BMC Workbench June 2013 release

Following the original release of BMC Workbench in June 2013, some significant features were made available via PTFs accompanying small program enhancements (SPEs).

Version 1.1.0 of the BMC Workbench product now includes all of these additional features:

- Lets you tune a SQL statement, by evaluating the potential performance of a SQL statement by creating an index, dropping an index, or updating index statistics. This feature is available if you have a license for BMC Performance for DB2 SQL
- Supports the following DML statements:
  - SELECT
  - INSERT
  - UPDATE
  - DELETE
- Lets you use a Connection Manager to define a local or a remote DB2 connection via a single User Interface Middleware (UIM) server
- Lets you use the Template Manager to organize templates hierarchically in user-defined folders, making it easier to find the templates that you need
- Lets you use System Authorization Facility (SAF) resources to manage individual user-access to Workbench functions.

Installation

To download the latest version of the Installation System, complete these steps:
1 Go to http://www.bmc.com/support/reg/installation-system.html, or navigate to the “BMC data management for DB2 and IMS, MainView, and cost optimization products installation and maintenance” section of the BMC Support Central website.

A BMC support user ID and password are required.

2 Click Installation.

3 Follow the procedures.

**Note**

BMC recommends updating the Installation System each time you use it to ensure that you have the most recent information. To do so, on the Installation System Main Menu, select Check for Installation System Update. For additional information, see the Installation System Reference Manual.

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

High Speed Utilities for DB2 is installed by using the Installation System. This section contains installation information that supplements or supersedes the information in the Installation System documentation.

## Requirements

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

## Installation changes

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

## Migration considerations for SNAPSHOT UPGRADE FEATURE

XBM and its SNAPSHOT UPGRADE FEATURE tolerate interoperation between two consecutive releases (for example, 6.1 and 6.2) for migration purposes.

The following considerations apply to this toleration:

- When operating in a mixed environment, do not attempt to use features that have been added in the latest release. If XBM sends these requests to a subsystem that is using the previous release of XBM, XBM might abend.
- Do not operate long term in a mixed environment. BMC recommends that you migrate your entire environment as soon as you can.

- BMC provides limited support for interoperability problems.

For migration from XBM 6.1 to 6.2, complete the following steps:

1. Install PTF BPE0440 into the XBM 6.1 load library and restart the XBM 6.1 systems as soon as possible.
   
   After installing this PTF, if XBM 6.1 encounters a request for an XBM 6.2 feature, XBM fails gracefully instead of abending.

2. Ensure that all maintenance has been applied for both releases of XBM.

3. For each XBM in a sysplex group, complete the following steps:
   a. If active snapshots exist, bring XBM 6.2 into the XBM sysplex group on each system before you stop the XBM on that system.
   b. Start the updated XBM 6.2 system.
      Active snapshots will be synchronized with the new XBM version.
   c. Stop XBM 6.1 on that system.

**FMID and version information**

This release of High Speed Utilities for DB2 uses version 2.4.10 of the Installation System.

*Note*

If you have a later version of the Installation System, use that version to install the solution, product, or component.

During installation, the following versions and SMP/E FMIDs are installed:

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<th>Product or component</th>
<th>Version</th>
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<td>SQL Explorer</td>
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<td>DB2 Solution Common Code</td>
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<td>UIM User Interface Middleware</td>
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<td>ZZIO180</td>
<td>DB2 Option Carryover</td>
<td>1.8.00</td>
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The preceding table contains the FMIDs for High Speed Utilities for DB2 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:**
  
  — `bxx_ozi_tape_product_list.txt` lists FMIDs for cost optimization products, products shared across product lines, and infrastructure products.
  
  — `cxx_ozi_tape_product_list.txt` lists FMIDs for BMC products for IBM DB2.
  
  — `ixx_ozi_tape_product_list.txt` lists FMIDs for BMC products for IBM IMS.
  
  — `mxx_ozi_tape_product_list.txt` lists FMIDs for MainView products.

To access the reports on the BMC electronic software distribution (ESD) site, take the following steps:

1. Go to [http://www.bmc.com/support/reg/installation-system.html](http://www.bmc.com/support/reg/installation-system.html), or navigate to the “BMC data management for DB2 and IMS, MainView, and cost optimization products installation and maintenance” section of the BMC Support Central website.

2. Click **Product codes and FMIDs**.

3. Click one of the listed reports.

## Maintenance

After you install your software, you can download any additional SMP/E maintenance by using either BMC Internet Service Retrieval (BMC ISR) or eFix PTF Distribution Services ([http://apps.bmc.com/support/efix.cgi](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 documentation.

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**Note**

Before applying maintenance, ensure that you have successfully run the $176APLF job to set up your maintenance environment.
BMC provides fixes for High Speed Utilities for DB2 at the component level. To apply fixes for this solution, you must apply fixes for each component of the solution.

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.

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