BMC Software is releasing version 11.1.00 of the ALTER for DB2® and CHANGE MANAGER for DB2 products.

ALTER and CHANGE MANAGER are also components of BMC solutions as follows:

- ALTER is a component of the Administrative Assistant for DB2 solution.
- CHANGE MANAGER is a component of the Database Administration for DB2 solution.

**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 (PAC) data

These release notes supplement and supersede the product documentation and discuss product enhancements:

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What’s new

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

Support for DB2 objects

You can now create, edit, drop, migrate, and import the following IBM® DB2 Universal Database™ for z/OS® objects:

- External stored procedures and native SQL stored procedures

CHANGE MANAGER allows you to create a procedure in which lines in the text are longer than 72 characters. In addition, CHANGE MANAGER allows you to view, alter, and copy procedures that were built in another product and that contain long lines.
- Clone tables
- System-period temporal tables and history tables

CHANGE MANAGER also allows you to baseline and compare these objects.

**NOTE**

You can only migrate the following types of stored procedures:

- External SQL stored procedures
- Stored procedures that contain a UDT data type or an SQL table function that defines a parameter for a transition table (TABLE LIKE ... AS LOCATOR syntax)
- All stored procedures on a DB2 subsystem that is in one of the following modes: Version 8 NFM, Version 9 CM or ENFM, or Version 10 CM8 or ENFM8

BMC displays these types of procedures in the Mixed List.

### Copy Migration feature

CHANGE MANAGER supports the Copy Migration feature of the BMC Recovery Management for DB2 and Database Administration solutions. The Copy Migration feature includes the BMC COPY PLUS for DB2 EXPORT command and BMC RECOVER PLUS for DB2 IMPORT command. With these commands, you can migrate an image copy or set of image copies within a DB2 subsystem or to another DB2 subsystem. The migration file that the EXPORT command creates homogeneously transfers all types of COPY PLUS and IBM image copies, and streamlines the recovery process.

### Dynamic allocation of reorg data sets

ALTER and CHANGE MANAGER now support dynamically allocating data sets for the BMC REORG PLUS for DB2 and IBM REORG utilities. You can now use REORG PLUS for all reorganizations. You can enable or disable dynamic allocation by using the DYNREORG installation option, the DYNREORG or NODYNREORG ALUIN keywords, or an option on the Analysis Utility Dataset Options panel.
Support of SET SCHEMA

ALTER and CHANGE MANAGER support using a SET SCHEMA statement to set the CREATOR field to the value in the SET SCHEMA statement when you create an unqualified alias, table, index, view, or trigger with a one-part name. The new -SETA worklist command sets the schema creator for subsequent SQL statements.

Support of LOAD DATA RESUME YES INTO TABLE REPLACE

ALTER and CHANGE MANAGER now support using the LOAD DATA RESUME YES INTO TABLE REPLACE syntax for the BMC LOADPLUS for DB2 utility. This change enables the products to migrate only the data for one or more tables in a segmented, multi-table table space. Using INTO TABLE REPLACE greatly improves performance by eliminating the need for -SQL DELETE statements in the worklist. To use the new syntax, you must include the FORCELOADREPLACE keyword in the ALUIN input stream.

Include parent objects in scope rules for tables

In an earlier release of CHANGE MANAGER, the CM/PILOT component of CHANGE MANAGER enabled you to migrate the parent objects of tables. Now, you can include parent objects of tables by specifying scope rules for outbound migrate profiles and catalog baseline profiles. You can also specify the database and table space dependencies in your migrate options for tables.

Ability to delete baselines in batch

You can now delete a specific baseline in a batch run.

Capture of statistical information

ALTER and CHANGE MANAGER now use the CM_HISTORY product table to capture the following statistics about analyzing work IDs:

- Date and time at which a work ID was analyzed
- DB2 SSID on which a work ID was analyzed
- Type of work ID (alter-type or migrate-type)
Options specified in the work ID

Number and type of objects modified by Specification, Import, or scope rules, and objects affected by the changes or scope rules

Number and type of utilities generated for a worklist

CHANGE MANAGER also uses the CM_HISTORY product table to capture the following statistics about comparisons:

- Date and time of a comparison
- DB2 location on which a comparison was executed
- Compare1 and Compare2 input types
- Number of objects obtained for the input types
- Number of objects generated in CDL
- Final return code

### Excluded or included primary key constraints in scope rules

When you exclude a unique constraint as a dependency of an object, CHANGE MANAGER excludes the unique key constraint and the primary key constraint. An earlier release of CHANGE MANAGER provided the OVERRIDE( KEEP-ALL-PRIMARY ) ALUIN keyword, which let you include the primary key constraint in the scope.

The following new options in this release let you control whether the primary key constraint is included or ignored in the scope:

<table>
<thead>
<tr>
<th>Keyword</th>
<th>Installation option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVERRIDE( KEEP-ALL-PRIMARY )</td>
<td>UCPKPALL=Y</td>
<td>Includes the primary key constraint in a baseline or comparison when you exclude unique constraints</td>
</tr>
<tr>
<td>OVERRIDE( NO-PRIMARY-CONSTRAINTS )</td>
<td>UCPKPALL=N</td>
<td>Ignores the primary key constraint in a baseline or comparison when you exclude unique constraints</td>
</tr>
</tbody>
</table>

### Suppressed column order in a comparison

You can now use the OVERRIDE( NOTBCOLORORDER ) ALUIN keyword to ignore the differences in the order of the columns in a table during a comparison. In addition, when you specify the keyword and add a new column to the table, CHANGE MANAGER adds the column to the end of the table.
Stop lists

You can now create a list of tables that should not be analyzed (stop list). For example, you might want this list to include tables that are defined with the DATA CAPTURE CHANGES attribute. When you analyze a work ID, the Analysis component determines whether the tables to be modified or migrated are listed in a work ID for the work ID creator specified in the STOPLIST ALUIN keyword or STOPLIST installation option. If the tables are included in the stop list for the creator work ID, and the NOSTOPLIST ALUIN keyword is not specified, Analysis will not produce a worklist. If the NOSTOPLIST keyword is specified, Analysis produces the worklist.

SQL terminator

The Baseline Report component uses the pound sign (#) as an alternate terminator to separate SQL statements. You can now change the value of the alternate terminator with the BLRTERMC installation option, or override the value with the TERMINATOR ALUIN keyword.

Remote baseline profiles when comparing a DB2 catalog to a DB2 catalog

When you compare a DB2 catalog to a DB2 catalog, you can now specify a remote SSID for a baseline profile that contains scope rules. You specify the remote SSID in the first part of a three-part name for the profile in the SCOPE1 and SCOPE2 ALUIN keywords.

Preserved authorizations

The products’ Analysis component now preserves the authorizations that you grant to roles for various objects.

Limit key validation installation option

When you alter the limit key values for an index- or table-controlled partitioned object, the Analysis component must alter each partition in a specific sequence. Each altered limit key cannot exceed the value of the existing limit key of the next partition. Analysis sorts the limit key values so that ALTER TABLE ALTER PARTITION statements can be executed in the correct sequence. Analysis also validates the limit
key values to ensure that partition ranges do not overlap, and that the values are correct for the data types and lengths of the partitioning columns. This release provides a new installation option, LKVALID, to indicate whether to sort and validate the limit key values, or to ignore errors.

**Delimited identifiers**

ALTER and CHANGE MANAGER now support delimited identifiers for collection IDs and names in the REBIND TRIGGER PACKAGE commands.

**New sample DML statements**

With CHANGE MANAGER, you can import files that contain CM/PILOT DML statements. CHANGE MANAGER can process these files, whether they were received from the same or another subsystem, and apply the changes. Sample DML statements that you can import with CHANGE MANAGER are provided in several members in the HLQ.CNTL data set.

The following members are new for this release:

<table>
<thead>
<tr>
<th>Member</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACMDMLP1</td>
<td>Migrates stored procedures</td>
</tr>
<tr>
<td>ACMDMLP2</td>
<td>Updates attributes for native SQL stored procedures</td>
</tr>
<tr>
<td>ACMDMLP3</td>
<td>Updates parameters for native SQL stored procedures</td>
</tr>
</tbody>
</table>

**APARs for DB2 Version 10**

ALTER and CHANGE MANAGER now support the following APARs for DB2 Version 10:

- In an ALTER TABLE ALTER COLUMN SET DATA TYPE statement, if the transition variable for the column being altered is used in a trigger action, IBM now issues SQLCODE -750 (reference IBM PM40141). If you perform an action that causes the product to generate an ALTER TABLE ALTER COLUMN SET DATA TYPE command for a table on which a trigger is based, the Analysis component will drop the trigger, alter the table, and rebuild the trigger.

- You can now add a column that is defined as TIMESTAMP(6) WITH TIME ZONE in a partitioning key for an index or a table. The column must be the last column in the partitioning key. IBM added this feature with APAR PM37611. You must have the IBM PTF applied to obtain this functionality.
You can now make the MAXPARTITIONS value lower than the value that was set previously for a partition-by-growth universal table space. (IBM added this capability with APAR PM57001. You must have the IBM PTF applied to obtain this functionality.) However, DB2 will not allow you to reduce the value of MAXPARTITIONS to a value that is less than the actual number of active partitions.

With APAR PM67642, IBM modified DB2 to invalidate packages that are dependent upon a table space during a reorganization. The packages require invalidation when a partitioned table space is altered to a universal table space by changing the SEGSIZE. After the packages are invalidated, ALTER and CHANGE MANAGER rebind the packages. (You must have the IBM PTF applied to obtain this functionality.)

End of support for DB2 8, DB2 9 CM, and DB2 10 CM8

Starting with this release, ALTER and CHANGE MANAGER do not support IBM DB2 Version 8. Earlier releases will continue to support Version 8.

Future releases of ALTER and CHANGE MANAGER will not support the following modes:

- DB2 Version 9 CM
- DB2 Version 10 CM8

DSNTIAD plan name

The JCL Generation component now lets you specify the name of the DB2 plan that will run the IBM DSNTIAD program. You can specify the name in either of the following locations:

- JCL Generation Debugging, Display and Execution Options panel
- DSNTIAD_PLAN keyword in the product options file (POF)

JCL members before job steps

The JCL Generation component now lets you include a JCL member before each job step in JCL. You can specify the name of the member in either of the following locations:

- JCL Generation Debugging, Display and Execution Options panel
- PRE_JOBSTEP_INCLUDE keyword in the POF
SYSPRIN2 output data set

The JCL Generation component offers a new SYSPRIN2 data set for viewing a BMC utility's SYSPRINT output while the utility is running or when the utility's execution is canceled. You can use either of the following locations to include the SYSPRIN2 DD in the JCL:

- JCL Generation Static Data Set Options panel
- INCLUDE_SYSPRIN2 keyword in the POF

Suppressed DD names

The JCL Generation component offers the following POF keywords to suppress adding DD names to prefixes for the unload (SYSREC) data sets:

- UNLD_FREF_SUPPR_SUFF
- UNLD1_SUPPRESS_SUFF
- UNLD2_SUPPRESS_SUFF
- UNLD3_SUPPRESS_SUFF
- UNLD4_SUPPRESS_SUFF

Omitted unit names for data sets

Your shop standards might require that you omit the UNIT parameter from your JCL. The JCL Generation component now lets you omit the parameter by specifying a value of NONE for the unit name.

Use of symbolic variables

The BMC REORG PLUS and IBM REORG utilities use a mapping table to map row IDs (RIDs) between source and target tables. ALTER and CHANGE MANAGER now allow you to include the symbolic variable &ZUSER or &USERID in the mapping table's name. You can add the symbolic variable in either of the following location:

- REORG MAPPING TABLE field on the Online Reorg Utility Options panel
- REORG_MAPTAB keyword in the POF

ALTER and CHANGE MANAGER can also use the &WKOWN and &WKOWNER symbolic variables in the prefixes for data sets that are dynamically allocated.
New command for resetting POF variables

You can now enter one of the following commands on the Command line of the product to easily reset all of the ISPF variables in the ISPF profile with the variables in the POF:

- To reset the variables in the initial POF, enter **TSO POFRESET**.
- To reset the variables in a specified initial or user POF, enter **TSO POFRESET POF(dataSetName(POFMember))**.

To enable these commands, you must modify the POFRESET CLIST. The CLIST is located in the HLQ.DBCLIB library.

Options for ALTER and CHANGE MANAGER Analysis

For ALTER and CHANGE MANAGER, JCL Generation now provides a panel for specifying options that the Analysis component uses. From the ALTER and CHANGE MANAGER Analysis Options panel, you can specify the following items:

- Number of dynamically allocated sortwork data sets that the BMC REORG PLUS or IBM REORG utility uses
- The unit for the dynamically allocated sortwork data sets
- The option to include the name of the mapping table in the syntax for the IBM REORG utility

Options for BMC COPY PLUS EXPORT data sets

For CHANGE MANAGER, JCL Generation supports the specifications for the EXPORT data set that the BMC COPY PLUS EXPORT command creates to migrate data. You can specify the values on the JCL Generation Data Set Options for COPY EXPORT panel.

Product tables

The following ALTER and CHANGE MANAGER product tables changed for this release:

- CD_ALIAS
- CD_INDEX
The following CHANGE MANAGER product tables changed for this release:

- BL_ALIAS
- BL_AUTH
- BL_INDEX
- BL_TABLE
- BL_VIEW
- CM_BASELINE
- CM_SCOPE
- CM_SYNC

The following ALTER and CHANGE MANAGER product tables are new for this release:

- CD_PACKAGE
- CD_PARMS
- CD_ROUTINES2
- CD_ROUTINES2NEWTEXT
- CD_ROUTINES2TEXT

The following CHANGE MANAGER product tables are new for this release:

- BL_PACKAGE
- BL_PARMS
- BL_ROUTINES
- BL_ROUTINESTEXT
- BL_RTAUTH
- BL_SQAUTH
- CM_HISTORY
- CM_XML
- CM_XML_AUX
## Restrictions

In some situations, ALTER and CHANGE MANAGER cannot use BMC utilities to complete specific tasks. The following table summarizes the situations that BMC has identified to date and indicates the restrictions as follows:

- For a given situation, X means ALTER and CHANGE MANAGER cannot use the specified utility.
- R means ALTER and CHANGE MANAGER can use the utility in the given situation on a restricted basis (that is, under certain circumstances, as explained by the table footnotes).
- Blank (gray) cells indicate that the situation is not relevant to the specified utility.

<table>
<thead>
<tr>
<th>Situation</th>
<th>BASIC UNLOAD</th>
<th>UNLOAD PLUS</th>
<th>UNLOAD PLUS from image copies</th>
<th>RECOVER PLUS</th>
<th>LOADPLUS</th>
<th>BMCFASTLOAD feature with UNLOAD PLUS and LOADPLUS</th>
<th>RECOVER PLUS</th>
<th>REBUILD INDEX</th>
<th>BMCSTATS feature of DASD MANAGER PLUS</th>
<th>COPY PLUS</th>
<th>EXPORT / RECOVER PLUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A base table includes a LOB column.</td>
<td>X</td>
<td>R[^8]</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A table contains an inline LOB.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The size of the LOB column was decreased.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>You are converting a LOB column from NULL to NOT NULL.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A LOB or an XML auxiliary object is defined as DEFINE NO.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>(DB2 Version 10)</em> A base table includes an XML column.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The encoding scheme is defined as Unicode, and a new GRAPHIC column that is being loaded is defined as NOT NULL and NO DEFAULT.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>You are converting a Unicode GRAPHIC or VARGRAPHIC data type from or to another data type.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>You are converting from a VARCHAR data type to BLOB or DBCLOB.</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A table includes an index that is created on an expression.</td>
<td>X[^5]</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A table that is being loaded includes an index with a key stored in random order.</td>
<td>X[^5]</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A temporal table defines a BUSINESS_TIME or a SYSTEM_TIME period.</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Additional restrictions are as follows:

- On DB2 Version 9 or later subsystems, the Analysis component of ALTER and CHANGE MANAGER has disabled the use of the BMC CHECK PLUS for DB2 utility. The products use the IBM CHECK utility, instead.

- You cannot use the LOB DATA MOVER to unload and load tables that include an XML column.

- The CM/PILOT component of CHANGE MANAGER does not allow you to estimate space if DB2 created the table space implicitly in a Version 9 or later subsystem.

- ALTER and CHANGE MANAGER do not support INSTEAD OF triggers.
With APAR PK51752, IBM modified the CREATE TABLE statement to support implicitly creating table spaces for range-partitioned tables. However, ALTER and CHANGE MANAGER do not support this feature.

The JCL Generation component of the products constructs a JCL file for running the Analysis, Import, Compare, Baseline, Baseline Report, and CM/PILOT components in batch. The batch JCL that you generated in product version 9.1.01 or earlier might not work with version 11.1.00. You should regenerate the JCL by using version 11.1.00.

Documentation changes

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 now located in the following books:
  - *Installation System User Guide*
  - *BMC Products and Solutions for DB2 Configuration Guide*

- The installation options and POF keywords are now documented in the *ALTER and CHANGE MANAGER for DB2 Reference Manual*.

- The names of the ALTER and CHANGE MANAGER books have changed, as shown in the following table:

<table>
<thead>
<tr>
<th>Previous title</th>
<th>Current title</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>ALTER and CHANGE MANAGER for DB2 Getting Started Guide</em></td>
<td><em>ALTER and CHANGE MANAGER for DB2 User Guide, Volume 1</em></td>
</tr>
<tr>
<td><em>ALTER and CHANGE MANAGER for DB2 User Guide</em></td>
<td><em>ALTER and CHANGE MANAGER for DB2 User Guide, Volume 2</em></td>
</tr>
</tbody>
</table>

Revision bars in the documentation denote differences from earlier editions. To view the documentation, see the Support Central website at http://www.bmc.com/support.

Installation

Download the latest version of ALTER or CHANGE MANAGER 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.

ALTER and CHANGE MANAGER are installed by using the BMC Installation System. This section contains installation information that supplements or supersedes the information in the Installation System User 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.

Migration considerations

Consider the following items when you migrate from an earlier version of DB2 to DB2 Version 10:

- When either of the following sets of conditions exists, DB2 cannot run DDL that CATALOG MANAGER generates:
  - After migrating a DB2 Version 8 or 9 NFM subsystem to DB2 Version 10 NFM, you create an object that is associated with a Version 10 feature (for example, a temporal table). Then, you fall back to Version 10 CM8*, ENFM8*, CM9*, or ENFM9*.
  - After migrating a DB2 Version 8 NFM subsystem to DB2 Version 10 NFM, you create an object that is associated with a Version 9 feature. Then, you fall back to Version 10 CM8* or ENFM8.

Because a DB2 Version 10 NFM catalog now exists on the subsystem to which you fell back, that subsystem considers the newly created object to be valid. CATALOG MANAGER generates valid DDL for the object as the object exists in the Version 10 NFM catalog; however, CATALOG MANAGER will not be able to recover the object or to include it in the Drop Recovery Log if dropped.
ALTER or CHANGE MANAGER issues an error message upon encountering the new object.

- When you migrate a DB2 Version 9 NFM subsystem to a DB2 Version 10 NFM subsystem, BMC recommends issuing the REBIND command and specifying EXPLAIN YES on all packages.

## Known installation issue

If both of the following conditions exist at your site, contact BMC Customer Support before attempting to use the Installation System to customize your BMC products:

- Your subsystem is using DB2 Version 10.
- The DSNZPARM SEPARATE_SECURITY subsystem parameter is set to YES.

## FMID and version information

This release of ALTER and CHANGE MANAGER 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>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>BBAPW32</td>
<td>BMC Password Security System</td>
<td>3.2.00</td>
</tr>
<tr>
<td>BBASC70</td>
<td>SAS_C V70B</td>
<td>7.0.00</td>
</tr>
<tr>
<td>ZACMB10</td>
<td>CHANGE MANAGER</td>
<td>11.1.00</td>
</tr>
<tr>
<td>ZACSB10</td>
<td>Common SQL (ACS)</td>
<td>11.1.00</td>
</tr>
<tr>
<td>ZADUA20</td>
<td>UNLOAD PLUS</td>
<td>10.2.00</td>
</tr>
<tr>
<td>ZAEXB10</td>
<td>Execution for DB2</td>
<td>11.1.00</td>
</tr>
<tr>
<td>ZAFRB10</td>
<td>RECOVER PLUS</td>
<td>11.1.00</td>
</tr>
<tr>
<td>ZAIN031</td>
<td>Install Execution Code</td>
<td>3.1.00</td>
</tr>
<tr>
<td>ZASHB10</td>
<td>Common Admin Code</td>
<td>11.1.00</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>
</tbody>
</table>
The preceding table contains the FMIDs for ALTER and CHANGE MANAGER 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 (DB2 products).
  
  - ixx_ozi_tape_product_list.txt lists products and components for the I-series installation (IBM IMS™ products).
  
  - 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.
Maintenance

After you install ALTER or CHANGE MANAGER, 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 via 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.

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.