CATALOG MANAGER for DB2®
Version 10.1.00
April 8, 2011

BMC Software is releasing version 10.1.00 of the BMC CATALOG MANAGER for DB2 product. CATALOG MANAGER is a component of the BMC Administrative Assistant for DB2 and BMC Database Administration for DB2 solutions.

NOTE
Before you begin installation, BMC recommends that you check the Customer Support 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:

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What’s new

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

DB2 support and toleration

CATALOG MANAGER supports or tolerates various features of the IBM® DB2 Universal Database for z/OS® subsystem.

Supported features

CATALOG MANAGER supports the following features of DB2 Version 10:

- INCLUDE clause with a CREATE, ALTER, or DDL command on a unique index

  The INCLUDE clause specifies an additional index key column that does not enforce the uniqueness of the index.

- length of inline large object (LOB) columns

  CATALOG MANAGER also supports LOB columns that are referenced in indexes on an expression and defaults for inline LOB columns that have a length defined.

- DATE and TIMESTAMP data types in the AS SQL clause of an XML index
- enhancements to online reorganizations, including extending the PART parameter in the REORG TABLESPACE statement and adding the AUX keyword to the SHRLEVEL REFERENCE and SHRLEVEL CHANGE parameters

CATALOG MANAGER can use the IBM REORG utility to reorganize a LOB table space by performing an online reorganization with the SHRLEVEL CHANGE option.

- hash access path for accessing rows by using a hash key

- MEMBER CLUSTER clause in a CREATE TABLESPACE and an ALTER TABLESPACE statement for a partition-by-growth or range-partitioned table space

- precision value for a TIMESTAMP data type

- TIMESTAMP WITH TIME ZONE data type

- temporal tables with the BUSINESS_TIME or SYSTEM_TIME period

- DEFINE NO LOB and XML table spaces (and their dependent indexes)

- pending definition changes for table spaces and indexes

CATALOG MANAGER also supports the DROP PENDING CHANGES clause on the ALTER TABLESPACE statement.

- the following new or modified BIND and REBIND options for plans and packages:
  - CONCURRENTACCESSRESOLUTION
  - EXPLAIN
  - EXTENDEDINDICATOR
  - SQLERROR

- BIND QUERY and FREE QUERY commands

- the following SYSTEM privileges for the DCL, GRANT, HGRANT, and REVOKE commands:
  - ACCESSCTRL
  - CREATE_SECURE_OBJECT
  - DATAACCESS
  - DBADM
  - EXPLAIN
  - SQLADM

- SECURED option in CREATE TRIGGER, ALTER TRIGGER, CREATE FUNCTION, and ALTER FUNCTION statements
row and column access control through row permissions and column masks, as follows:

— generates DDL and MDDL on permission (PM) and mask (MK) objects

— generates ALTER PERMISSION, CREATE PERMISSION, ALTER MASK, and CREATE MASK statements

— generates HDDL and enables the drop recovery function to generate DDL for the ALTER TABLE ACTIVATE ROW ACCESS CONTROL and ALTER TABLE ACTIVATE COLUMN ACCESS CONTROL statements

skip-level migration

CATALOG MANAGER supports migrating to DB2 Version 10 from DB2 Version 8, which introduces several new migration modes:

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM8</td>
<td>conversion mode from DB2 Version 8</td>
</tr>
<tr>
<td>CM8*</td>
<td>conversion mode* from DB2 Version 8</td>
</tr>
<tr>
<td>CM9</td>
<td>conversion mode from DB2 Version 9</td>
</tr>
<tr>
<td>CM9*</td>
<td>conversion mode* from DB2 Version 9</td>
</tr>
<tr>
<td>ENFM8a</td>
<td>enabling-new-function mode from DB2 Version 8</td>
</tr>
<tr>
<td>ENFM8*</td>
<td>enabling-new-function mode* from DB2 Version 8</td>
</tr>
<tr>
<td>ENFM9a</td>
<td>enabling-new-function mode from DB2 Version 9</td>
</tr>
<tr>
<td>ENFM9*</td>
<td>enabling-new-function mode* from DB2 Version 9</td>
</tr>
<tr>
<td>NFM</td>
<td>new-function mode</td>
</tr>
</tbody>
</table>

Before using CATALOG MANAGER in this mode, you must run the IBM DSNTIJEN job to successful completion. DSNTIJEN converts DB2 to enabling-new-function mode from DB2 Version 8 or 9.1. Successful completion of DSNTIJEN completes catalog migration. If DSNTIJEN does not complete successfully, CATALOG MANAGER issues the following message:

CATALOG CONVERSION HAS BEEN STARTED BUT HAS NOT COMPLETED. USING A PARTIALLY CONVERTED DB2 CATALOG MAY CAUSE UNPREDICTABLE RESULTS.

For earlier versions of DB2, CATALOG MANAGER also supports the use of 128-byte object names in the DESCRIBE command for tables and views.
Tolerated features

CATALOG MANAGER tolerates the following features of DB2 Version 10:

- CATALOG MANAGER tolerates the definition of an XML-type modifier on an XML column definition to validate the XML schema feature of DB2 Version 10.

- For DB2 Version 10, the REVOKE_DEP_PRIVILEGES subsystem parameter controls whether revoking the privileges of one SQLID causes DB2 to revoke privileges of additional SQLIDs. How you set this DSNZPARM parameter affects your ability to modify the REVOKE statements that CATALOG MANAGER generates in the Confirm SQL for Revoke Reassign panel:
  - If REVOKE_DEP_PRIVILEGES = NO, DB2 does not assign the privileges that DB2 would revoke as the result of a REVOKE command to another SQLID. That is, on the Confirm SQL for Revoke Reassign panel, you cannot:
    - type Y in the Reassign Grants field to reassign the privileges to the SQLID specified in the Reassign GRANTOR field
    - type the SQLID of a new grantor for the cascading authorizations in the Reassign GRANTOR field

You can, however, issue the CASCADE command on an object to create a report that shows the hierarchy of authorizations for a DB2 object and the implications of issuing a REVOKE command.

- If REVOKE_DEP_PRIVILEGES = SQLSTMT, you can assign the privileges that DB2 would revoke as the result of a REVOKE command to another SQLID. However, if CATALOG MANAGER encounters a DB2 Version 10 authorization feature, the product issues an error message.

If you are using a version of CATALOG MANAGER that does not tolerate or exploit features of the DB2 version that you are using, the product issues a message.

Connection to a remote IBM DB2 subsystem from a location list

To connect to a remote DB2 SSID from a location (LO) list, you can now use one of the following methods:

- Issue the CONNECT command from the Cmd field on a location list.
- Issue the CONNECT BATCH command on a location list.

You can also edit the SYSIN input stream and specify the CONNECT command.
DB2 commands on a remote DB2 SSID and in batch mode

To issue DB2 commands to display, start, or stop objects, you can now use one of the following methods:

- Connect to a remote DB2 SSID and issue the DISPLAY, START, or STOP command from the **Cmd** field on an object list.

**NOTE**
Before you can issue DB2 commands on a remote DB2 SSID, the SYSPROC.ADMIN_COMMAND_DB2 stored procedure must be installed and available. Otherwise, the commands will fail.

- Issue the DISPLAY BATCH, START BATCH, or STOP BATCH command on an object list.

You can issue these commands from a remote DB2 SSID to which you have connected, or from a local DB2 SSID.

- Edit the SYSIN input stream and specify the DISPLAY, START, or STOP command.

Commands table

In previous releases, the COMD installation option enabled you to specify a user commands table name and optionally copy an existing user commands table module. CATALOG MANAGER no longer uses this installation option.

The commands that CATALOG MANAGER lists in the Commands List panel are defined in the primary commands table in the ACTCOMND member of the HLQ.DBCNTL library. This member contains all of the correct values for your installation. The contents vary among versions of CATALOG MANAGER.

Although you cannot modify the ACTCOMND member directly, you can create a user commands table. This table contains your modifications to existing commands and any new commands, and overrides the primary commands table. You specify your user commands table in the UCOMD installation option. When you invoke CATALOG MANAGER, the product merges the primary commands table with your user commands table.
Enhancements to the Commands List panel

CATALOG MANAGER now groups the commands on the Commands List panel in the following categories:

- CATALOG MANAGER commands
- DB2 action commands
- utility commands
- statistics commands
- list commands
- user commands

The panel now displays the command, the command type, and the list of the valid list types from which you can enter the command or the valid object types.

Data in LOB columns

You can now browse up to 2 MB of data in LOB columns.

Drop tables with RESTRICT ON DROP

When you specify to drop a database, table space, or table, CATALOG MANAGER can now analyze each DROP command to determine whether a table includes the DROP RESTRICT attribute. If the table contains the attribute, the product can generate an ALTER TABLE DROP RESTRICT ON DROP command before the DROP command. To enable this functionality, type Y in the Remove DROP RESTRICT field on the Confirm DROP panel.

New option for TERSE/VERBOSE

The General Options panel now provides an option to specify how much output you want CATALOG MANAGER to produce in the DDL process (terse or verbose). This option is supported only for partitioned table spaces and indexes.
SET CURRENT SQLID statement

In previous releases, CATALOG MANAGER did not generate a SET CURRENT SQLID = *grantor* statement before each GRANT statement. With this release, CATALOG MANAGER provides the Build SQLID before GRANT switch that enables generating the SET CURRENT SQLID statement before each GRANT statement. CATALOG MANAGER generates these GRANT statements for the following commands:

- HGRANT
- HDDL (with the HDDL Auths switch set to Y)
- REVOKE (with the Reassign Grants option)
- DCL
- COPYAUTHS

New lists

CATALOG MANAGER now provides the following lists:

<table>
<thead>
<tr>
<th>List command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>APO</td>
<td>lists the audit policies from the SYSIBM.SYSAUDITPOLICIES table</td>
</tr>
<tr>
<td>ARH</td>
<td>lists historical information about autonomic stored procedures in the SYSIBM.SYSAUTORUNS_HIST table</td>
</tr>
<tr>
<td>ATS</td>
<td>lists statistics alerts from autonomic stored procedures in the SYSIBM.SYSAUTOALERTS table</td>
</tr>
<tr>
<td>ATW</td>
<td>lists time windows for running autonomic stored procedures in the SYSIBM.SYSAUTOTIMEWINDOWS table</td>
</tr>
<tr>
<td>MK</td>
<td>lists the column masks from the SYSIBM.SYSCONTROLS table</td>
</tr>
<tr>
<td>PDD</td>
<td>lists information about the objects that have pending changes to data definitions from the SYSIBM.SYSPENDINGDDL table</td>
</tr>
<tr>
<td>PGC</td>
<td>lists the package copies from the SYSIBM.SYSPACKCOPY table</td>
</tr>
<tr>
<td>PM</td>
<td>lists the row permissions from the SYSIBM.SYSCONTROLS table</td>
</tr>
<tr>
<td>QRO</td>
<td>lists the optimization parameters for queries from the SYSIBM.SYSQUERYOPTS table</td>
</tr>
<tr>
<td>QRP</td>
<td>lists the plan hint information for queries from the SYSIBM.SYSQUERYPLAN table</td>
</tr>
<tr>
<td>QRY</td>
<td>lists the queries from the SYSIBM.SYSQUERY table</td>
</tr>
<tr>
<td>TBP</td>
<td>lists the table profiles from the SYSIBM.SYSTABLES_PROFILES table</td>
</tr>
</tbody>
</table>
New commands

CATALOG MANAGER now provides the following commands:

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCHANGE</td>
<td>exchanges data between two tables, one of which must be a clone of the other</td>
</tr>
<tr>
<td>TRUNCATE</td>
<td>deletes all rows for a base or global temporary table</td>
</tr>
<tr>
<td>TYPES</td>
<td>shows the available lists that CATALOG MANAGER can display</td>
</tr>
</tbody>
</table>

Enhanced commands

CATALOG MANAGER has enhanced the functionality of the HGRANT and HDDL commands:

- You can now issue the HGRANT command on views (VW). The HGRANT command enables you to grant privileges on a hierarchy of DB2 objects.
- You can now issue the HDDL command on procedures (PR) and native SQL procedures (NP). The HDDL command generates DDL to create a hierarchy of objects.

SQL area size

The SQL and Confirm Options panel no longer provides an option for you to specify the memory size for the work area that CATALOG MANAGER uses for processing SQL (SQL area size field). Now, CATALOG MANAGER always uses 2 MB for the memory size.

Display of packages for sequence objects

You can now issue the PG (package) command on a sequence object in a Sequences List. The dependency of the package on the sequence object must be specified in the SYSIBM.SYSPACKDEP catalog table.
Exclusion of MQTs from HDDL

In the Object Use Options panel, you can specify whether to include objects in the CREATE statements that the HDDL command produces. With this release, when you choose to exclude tables from the HDDL, CATALOG MANAGER also excludes materialized query tables (MQTs).

Ability to execute DDL generated in batch

In previous releases, when you used the BATCH keyword with the DDL command, CATALOG MANAGER generated comments at the top of the output file. These comments were preceded by an asterisk (*) in column 1. As a result, you could not execute the DDL without first manually deleting the comments. CATALOG MANAGER now precedes these comments with dashes (–) in columns 1 and 2. Thus, you no longer need to delete the comments before you execute the DDL.

Refreshed user options

The following installation options now include ,R in the variable syntax. ,R indicates that the specified value will refresh the existing value of the variable in the user's ISPF profile data set:

- ADSN
- BDSN
- CUP
- JDSN
- LDSN
- PDSN
- TDSN
- WDSN

Expanded views list

In previous releases, when you issued a VW (view) command on a database or a table space, CATALOG MANAGER displayed only the views in the SYSIBM.SYSTABLES catalog table that were type V and that matched the database name or table space name. CATALOG MANAGER now displays all of the views that are associated with the database or table space.
Expanded Session Log

The Session Log captures information pertaining to actions invoked by users during a CATALOG MANAGER session. With this release, the Session Log also captures actions that are performed with the data browsing and data editing functions.

Space estimates

You can use the BMC Simple Space Estimation (SSE) feature to determine the amount of space that a table space or index will require based on data structure definitions and their estimated usages. This feature does not require you to have the BMCSTATS component of the BMC DASD MANAGER PLUS for DB2 product installed. To initiate the feature, type **SSE** on the Command line.

HEX command

BMC is deprecating the HEX command in this release.

MEMLIMIT system parameter

The JCL Generation component now supports the MEMLIMIT system parameter, which limits above-the-bar memory for an address space. You can specify a MEMLIMIT value in the JCL Generation Jobcard Options panel, or in the MEMLIMIT keyword in the product options file (POF).

POF keywords for FlashCopies

The JCL Generation component now offers the following POF keywords to support creating FlashCopies (point-in-time copies of a volume) with the IBM® FlashCopy® feature:

- **FCPY_DATACLASS**
- **FCPY_EXPDT**
- **FCPY_MGMTCLASS**
- **FCPY_PREFIX**
- **FCPY_PRIQTY**
- **FCPY_RETPD**
- **FCPY_SECQTY**
POF keywords to suppress the DD name for copy data sets

The JCL Generation component offers the following POF keywords to suppress adding DD names to prefixes for the copy data sets:

- FCPY_SUPPRESS_SUFF
- PCPY1_SUPPRESS_SUFF
- PCPY2_SUPPRESS_SUFF
- RCPY1_SUPPRESS_SUFF
- RCPY2_SUPPRESS_SUFF

RUNTIME_HLQ

The RUNTIME_HLQ POF keyword supports the following symbolic variables:

- &DB2V2 and &DB2V3, which resolve to the version of DB2
- &SSID, which resolves to the DB2 subsystem ID

When you include the &SSID symbolic variable, the product can use a single POF with multiple subsystems.

Maximum number of tape volumes

You can now specify 0 for the maximum number of tape volumes. BMC recommends specifying 0 when you are using any of the following items:

- BMC UNLOAD PLUS utility
- dynamically allocated data sets
- IBM Storage Management Subsystem (SMS) to manage tape allocations

You can set this value on the JCL Generation Tape Options Update panel or with the TAPE_VOLCNT POF keyword.
Documentation changes

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

Installation


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

CATALOG MANAGER is installed by using the BMC Installation System. This section contains installation information that supplements or supersedes the information in the installation guide.

Installation System changes

The Installation System includes the following changes:

- The Product Customization menus accommodate new features, such as the DB2 Product Configuration technology, the DB2 Component Services (DBC), and the Next Generation Logger (NGL). Some BMC MainView for DB2, BMC System Performance for DB2, and BMC SQL Performance for DB2 products use this technology.

- You can use a new feature, BMC Internet Service Retrieval (ISR). BMC ISR identifies and applies fixes to all products that you install via the Installation System. For more information, see the installation guide.

- CATALOG MANAGER now uses the following conventions for synonym qualifiers, collection IDs, and plan names:

<table>
<thead>
<tr>
<th>Identifier</th>
<th>Convention</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>synonym qualifier</td>
<td>prdvry</td>
<td>ACTvrD</td>
</tr>
<tr>
<td>collection ID</td>
<td>prdv_y_MAIN</td>
<td>ACTvr_D_MAIN</td>
</tr>
<tr>
<td></td>
<td>prdv_y_#_MAIN</td>
<td>ACTvr_I_#_MAIN</td>
</tr>
<tr>
<td>plan name</td>
<td>prdvryz</td>
<td>ACTvrDB</td>
</tr>
</tbody>
</table>
The variables represent the following items:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Represents</th>
</tr>
</thead>
<tbody>
<tr>
<td>( v )</td>
<td>version level</td>
</tr>
<tr>
<td>( r )</td>
<td>release level</td>
</tr>
<tr>
<td>( y )</td>
<td>access type (D=direct, I=indirect)</td>
</tr>
<tr>
<td>( z )</td>
<td>the plan’s function or the unique plan identifier</td>
</tr>
</tbody>
</table>

- During installation, you can either use CATALOG MANAGER product tables from an earlier version or create new product tables. For example, you can use the product tables for version 9.3 with version 10.1. Thus, you can deploy a new version of CATALOG MANAGER in one member of a data sharing group while using an earlier version in other members.

- The CATALOG MANAGER installation options module now includes the following options:
  - AU DPOL=Dynamic
  - CONTRL=Dynamic
  - KEYTDST=Dynamic
  - KEYTGD=Dynamic
  - KEYTGDH=Dynamic
  - KEYTGHS=Dynamic
  - KEYTGST=Dynamic
  - KEYTGT=Dynamic
  - OBJROL=Dynamic
  - PACKCPY=Dynamic
  - PENDDDL=Dynamic
  - QUEROPT=Dynamic
  - QUERPLN=Dynamic
  - QUERY=Dynamic
  - ROLES=Dynamic
  - SEQAUTH=Dynamic
  - SEQDEP=Dynamic
  - TBLPROF=Dynamic
  - XMLREL=Dynamic
  - XMLSTR=Dynamic
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 it 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.

■ 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 issues

This section describes installation issues that remain open in this release.

DB2 Version 10 security parameter

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.
DB2 Product Configuration component

The name of the BMC Product Management (BPM) component is changing to the DB2 Product Configuration component (FMID ZLGxxxx). Documentation for the April 2011 release reflects the name change. A future release of the Installation System will replace BPM with DB2 Product Configuration in the installation panels and associated Help.

FMIDSETs

For products that contain the ZDIG190 FMID as part of an FMIDSET, attempting to run an apply check job ($B75APCF or $B80APCP) or an apply job ($B76APLF or $B81APLP) might result in the following errors:

GIM24801S ** NO SYSMODS SATISFIED THE OPERANDS SPECIFIED ON THE APPLY COMMAND.
GIM20501I  APPLY PROCESSING IS COMPLETE. THE HIGHEST RETURN CODE WAS 12.

To address this issue, take the appropriate action as follows:

- **If you have not yet generated the installation ($B) jobs, ensure that the Create FMIDSETs field on the Data Set Options panel is set to No (the default) before proceeding.**

- **If you have already generated the installation jobs and received the specified error, run the #D9 jobs to delete the data sets, and regenerate the JCL by using FMIDs instead of FMIDSETs.**

BMC plans to correct this issue in the next release of the Installation System.

Version and FMID information

This release of CATALOG MANAGER uses the following versions of the Installation System and installation media:

- version 2.3.10 or later of the Installation System
- version 2.3.10 or later of the C-series 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>Product</th>
<th>Version</th>
<th>FMID</th>
</tr>
</thead>
<tbody>
<tr>
<td>CATALOG MANAGER</td>
<td>10.1.00</td>
<td>ZACTA10</td>
</tr>
<tr>
<td>BMC Password Security System</td>
<td>3.2.00</td>
<td>BBAPW32</td>
</tr>
<tr>
<td>BMC Space Estimation Common Code (ASH)</td>
<td>10.1.00</td>
<td>ZASHA10</td>
</tr>
<tr>
<td>Common SQL (ACS)</td>
<td>10.1.00</td>
<td>ZACSA10</td>
</tr>
<tr>
<td>DB2 Solution Common Code (SCC)</td>
<td>10.1.00</td>
<td>ZSCCA10</td>
</tr>
<tr>
<td>Dignus C runtimes and C++ objects</td>
<td>1.9.01</td>
<td>ZDIG190</td>
</tr>
<tr>
<td></td>
<td>1.9.00</td>
<td>ZDIG018</td>
</tr>
<tr>
<td>Install Execution Code (AIN)</td>
<td>3.1.00</td>
<td>ZAIN031</td>
</tr>
<tr>
<td>JCL Generation and Execution</td>
<td>10.1.00</td>
<td>ZAEXA10</td>
</tr>
<tr>
<td>Option value migration (ZIO)</td>
<td>1.5.00</td>
<td>ZZIO150</td>
</tr>
<tr>
<td>SAS/C Resident Library</td>
<td>7.1.00</td>
<td>ASAR71C</td>
</tr>
<tr>
<td>SAS/C Transient Library</td>
<td>7.1.00</td>
<td>BBASC70</td>
</tr>
</tbody>
</table>

The preceding table contains the FMIDs for CATALOG MANAGER only. During installation, view one of the following generated JCL members to see a list of FMIDs for all of the products that you are installing:

- Express installation (JES2): $B90SMPE
- Express installation (JES3): $B91SMPE
- Custom installation: $B76APLF

To search the file, search on the word *FMID*.

**Maintenance**

After you install CATALOG 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 your installation guide.

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**NOTE**

Before applying maintenance, ensure that you have completed the appropriate jobs (based on your installation method) to set up your maintenance environment, as follows:

- Custom installation: $B78ACPF and $B83ACCP
- Express installation (JES2): $B90SMPE
- Express installation (JES3): $B90SMPE and $B91SMPE
PUT maintenance schedule

BMC did not deliver first-quarter 2011 PUT maintenance (PUT1101A). Instead, BMC will deliver that maintenance as part of the second-quarter cumulative maintenance in PUT1101B. For information about the PUT delivery schedule, see http://www.bmc.com/support/put-availability-schedule.html.

In the interim, you can use the new BMC Internet Service Retrieval (ISR) feature to identify and apply fixes to all products that you installed via the Installation System. BMC ISR simplifies ordering and retrieving service updates, either on demand or through your scheduler. You can use BMC ISR to inventory your target zones and generate a single request, or schedule a request on a recurring basis to retrieve maintenance updates. For more information, see the maintenance section of your installation guide.

**NOTE**

If you prefer, you can continue to use eFix PTF Distribution Services to obtain fixes on demand.

Support status

BMC supports the following versions of CATALOG MANAGER:

<table>
<thead>
<tr>
<th>Version</th>
<th>Level of support</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.1.x</td>
<td>full</td>
</tr>
<tr>
<td>9.3.x</td>
<td>full</td>
</tr>
<tr>
<td>9.1.x</td>
<td>limited</td>
</tr>
</tbody>
</table>

For more information about the latest support policies, see the Customer Support website at http://www.bmc.com/support.

Product documentation

BMC provides a documentation CD in product shipments and offers a link to the CD image on the EPD page of the Customer Support website. Individual product documents (books and notices) are also available on the website. You can order hardcopy documentation from your BMC sales representative or from the website. You can also subscribe to proactive alerts to receive e-mail messages when notices are issued or updated.
Customer support

If you have problems with or questions about a BMC product, see the Customer 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 800 537 1813. Outside the United States or Canada, contact your local BMC office or agent.