BMC is releasing version 1.3.00 of the BMC Application Accelerator *for IMS* product.

Application Accelerator is available as a stand-alone product and as a component of the BMC Cost & Performance Optimization *for System z* solution.

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**Note**

Before you begin installation, BMC recommends that you check the Support Central website at [http://www.bmc.com/support](http://www.bmc.com/support) for:

- Updated product documentation (for example, flashes and technical bulletins)
- Product downloads, patches, and fixes (PTFs)
- Product availability and compatibility data

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

The following topics are discussed:

- What’s new ................................................................. 2
- Support for IMS Version 14.1 ............................................... 2
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- IBM Program Restart Facility support ............................. 3
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What’s new

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

Support for IMS Version 14.1

Application Accelerator now supports Version 14.1 of the IBM IMS system.

Console enhancements

This release includes the following changes to the BMC Database Management Console:

- The console now provides perspectives that display data for features in a way best suited for the feature. For example, the console provides an IMS perspective, and a DB2 perspective.
  If you are not using a group of features, you can hide the corresponding perspective.
  Each perspective reflects its own set of connections. The console attempts to discover all predefined connections from user connection lists and previously defined enterprise data lists.

- The menu bar no longer appears at the top of the console. Instead, to access console-wide functions (including the online Help), click your user name in the top-right corner of the console.
  For example, to show or hide perspectives, click `userName => Tools => Options`.
  Then, on the Show Perspective tab, select the features that you want to show or hide and click `OK`.
  You can access all other functions from the perspectives.

- The console now supports using version 1.0 of the Transport Layer Security (TLS).
  Using TLS is optional, and no changes are required if you do not intend to use TLS. For more information about these and other changes to the console, see the console's online Help.
  For more information about implementing TLS, see the Database Management Console technical bulletin dated May 7, 2015.
IBM Program Restart Facility support

A new startup keyword, IBMPRF, enables running Application Accelerator under the IBM Program Restart Facility (PRF).

To run the product under PRF, you must use the IBOINIT utility to set IBMPRF to Y.

Note

The default is to not run under PRF (IBMPRF=N). Attempting to run Application Accelerator under PRF when IBMPREF is set to N causes Application Accelerator to receive abend 806.

For a description of IBMPRF, see sample member IBOCINIT or IBOCMUPD.

New reports for viewing IMS resource savings

You can now generate a report showing the IMS resource savings that result from using Application Accelerator to optimize your batch jobs. (This report is a batch version of the information you can view on the console’s Resource Savings window.) You can generate either of the following versions of the report:

- The Resource Savings Report, which shows the accumulated savings for the current profile of each job step
- The JOBSTEP History Report, which shows the savings for each execution of each job step for which data is available

To use the CPCBATCH utility

1. Identify the reports and content that you want to generate.
   For more information, see “CPCSYSIN control statements” on page 5.

2. Create JCL to execute the utility.
   For more information, see “CPCBATCH JCL requirements” on page 4.

3. Specify control statements in the CPCSYSIN data set.
   For more information, see “CPCSYSIN control statements” on page 5.

4. Run the JCL and view the reports.
   For more information, see “Description of data columns on the resource savings reports” on page 9.
CPCBATCH JCL requirements

The following JCL statements are valid for the CPCBATCH utility:

<table>
<thead>
<tr>
<th>Statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXEC</td>
<td><em>(required) Specify PGM=CPCBATCH.</em></td>
</tr>
<tr>
<td>STEPLIB DD</td>
<td><em>(required) Identify the library that contains the CPC load modules.</em></td>
</tr>
<tr>
<td>CPCLOG DD</td>
<td><em>(required for EVALUATE functions; recommended for other functions) Identify an output data set to contain the CPC message log and the policy report that the utility produces for the EVALUATE function. Typically, this statement specifies a standard SYSOUT=</em> data set.*</td>
</tr>
<tr>
<td>ddname DD</td>
<td><em>(POLICIES: optional for EXPORT and IMPORT functions) Identify a sequential data set to contain the policies to export, or one that contains the policies to import.</em></td>
</tr>
<tr>
<td></td>
<td><em>(JOBSTEPS: optional) Identify a sequential data set to contain the resource savings report.</em></td>
</tr>
<tr>
<td>CPCSYSIN DD</td>
<td>*(required) Identify the data set that contains control statements for the CPCBATCH utility. Typically, this statement specifies an in-line data set (CPCSYSIN DD *=).</td>
</tr>
</tbody>
</table>

Example job for POLICIES

The following example job shows a CPCBATCH job that specifies policies for Application Accelerator:

```plaintext
//CPCBATCH JOB ...  
//POLICIES EXEC  PGM=CPCBATCH,REGION=region  
//STEPLIB  DD DISP=SHR,DSN=cpcOptionsLibrary  
//CPCLOG   DD DISP=SHR,DSN=bmcLoadLibrary  
//CPCSYSIN DD *  
POLICIES -  
RUNTYPE(EXPORT) -  
DDN(PLCYEXPT)  
/*
```

Example job for JOBSTEPS

The following example job shows a CPCBATCH job that creates a resource savings report:

```plaintext
//CPCBATCH JOB ...  
//POLICIES EXEC  PGM=CPCBATCH,REGION=region  
//STEPLIB  DD DISP=SHR,DSN=cpcOptionsLibrary  
//CPCLOG   DD DISP=SHR,DSN=bmcLoadLibrary  
//CPCSYSIN DD *  
//AAISAVGS DD DISP=SHR,DSN=yourResourceSavingsDsn  
/*
```
CPCSYSIN control statements

The data set for the CPCSYSIN control statements contains 80-character, fixed-length records that control the actions of the CPCBATCH utility.

CPCSYSIN syntax

In the CPCSYSIN data set, you can specify control statements by using the following syntax elements:

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commands</td>
<td>The control statement must begin with a valid command. A command can have keywords and comments, separated where necessary with separators and continuation characters (if statements continue to the next line). A separator must follow a command. You can enter commands anywhere in positions 1 through 72 of the input statement; positions 73 through 80 are ignored.</td>
</tr>
<tr>
<td>Keywords</td>
<td>Keywords follow a command and invoke options. All keywords are nonpositional. You specify a keyword with a value following it in parentheses. The keyword value can be any character string up to 255 characters. All alphanumeric and special characters are allowed.</td>
</tr>
<tr>
<td>Comments</td>
<td>Comments consist of an alphanumeric character string beginning with a slash-asterisk (/<em>) and ending with an asterisk-slash (</em>/). Comments cannot start in position 1 of an input statement.</td>
</tr>
<tr>
<td>Separators</td>
<td>When you require a separator, use a blank, a comma, or a comment. You can use more than one separator between keywords. Do not use a separator between a keyword and its value.</td>
</tr>
<tr>
<td>Continuation characters</td>
<td>Valid continuation characters are the plus sign (+) and the minus sign (-). Use them to continue control statements and comments that do not fit on a single line of input. The continuation character must be the last nonblank character. Use the continuation characters as follows:</td>
</tr>
<tr>
<td></td>
<td>■ Use the plus sign (with no spaces before it) to continue values for a single keyword to the next line. The plus sign deletes leading separators from the continued line.</td>
</tr>
<tr>
<td></td>
<td>■ Use the minus sign (with a space before it) to continue a list of keywords for a single command. The minus sign does not delete leading separators from the continued line.</td>
</tr>
</tbody>
</table>
## CPCSYSIN keywords for the JOBSTEPS command

To create the resource savings reports for Application Accelerator, you specify the JOBSTEPS command. The following keywords are valid with the JOBSTEPS command:

<table>
<thead>
<tr>
<th>Keyword</th>
<th>Accepted values</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
</table>
| REPORT_TYPE | SAVINGS, HISTORY | None    | Type of report to create:  
  - REPORT_TYPE(SAVINGS) reports the most recent savings information and is a batch version of the request in the console’s Resource Savings window.  
  - REPORT_TYPE(HISTORY) reports all of the historical data available for the requested jobs.  
  This keyword is required. |
| NOTITLE    | Y, N           | N       | Whether to omit report title lines (Y for yes, or N for no)  
  Use this keyword if you want to export the report to a spreadsheet.  
  This keyword is optional. |
| METHODS    | Yes, No        | No      | Whether the report should indicate the methods used for optimization  
  This keyword is optional. |
| DETAIL_TYPE | D (Detail), M (Monthly), Y (Yearly) | All types | The type of repository records to process:  
  - D is detail  
  - M is monthly  
  - Y is yearly  
  This keyword is used with REPORT_TYPE(HISTORY). |
| DDName     | ddname         | None    | The ddname of the report data set  
  This keyword is mutually exclusive with DSNAME.  
  The JCL should include a DD statement with this ddname. |
| DSName     | Data set name  | None    | The data set name of the report data set  
  This keyword is mutually exclusive with DDNAME.  
  If the specified data set does not exist, Application Accelerator creates a data set with this name. |
<table>
<thead>
<tr>
<th>Keyword</th>
<th>Accepted values</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOBname</td>
<td>Job name</td>
<td>None</td>
<td>The job for which you want to generate the report If you omit this keyword, the report will include all job steps for which data is available in the repositories. Additional considerations follow:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>■ If you specified REPORT_TYPE(SAVINGS), you can use wildcards in the JOBNAME value:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>— A percent sign (%) represents any character.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>— An asterisk (*) at the end of the value includes any names that start with the preceding characters.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>■ If you specified REPORT_TYPE(HISTORY), you must specify additional job step criteria (using one or more of the keywords specified in the subsequent rows of this table). Also, you cannot use wildcards.</td>
</tr>
<tr>
<td>STEPname</td>
<td>Job step name</td>
<td>None</td>
<td>The execution job step (to further qualify the requested job name) This keyword is used with REPORT_TYPE(HISTORY).</td>
</tr>
<tr>
<td>PROCNAME</td>
<td>Procedure step name</td>
<td>None</td>
<td>The executing procedure step if a procedure is used (to further qualify the requested job name) This keyword is used with REPORT_TYPE(HISTORY).</td>
</tr>
<tr>
<td>PSBname</td>
<td>PSB name</td>
<td>None</td>
<td>The name of the program specification block (PSB) that the application used to access the IMS databases (to further qualify the requested job name) This keyword is used with REPORT_TYPE(HISTORY).</td>
</tr>
<tr>
<td>PROGNAME</td>
<td>Program name</td>
<td>None</td>
<td>The name of the batch application program executed in the job step (to further qualify the requested job name) This keyword is used with REPORT_TYPE(HISTORY).</td>
</tr>
<tr>
<td>IMSid</td>
<td>IMSID</td>
<td>None</td>
<td>The ID of the IMS system specified on the job step EXEC parameter (to further qualify the requested job name) This keyword is used with REPORT_TYPE(HISTORY).</td>
</tr>
</tbody>
</table>
### Example JOBSTEPS command statements

The following examples show how to use the different keywords for the JOBSTEPS command:

**Example**

The following command reports the total Application Accelerator resource savings, and shows the savings for each job step. The report is placed in data set *yourReportDsn*.

```
JOBSTEPS RUNTYPE(SAVINGS) DSN(yourReportDsn)
```

**Example**

The following command reports the total Application Accelerator resource savings and shows the savings for each step whose job name is MYJOB. The report is placed in data set AAISAVGS.

```
JOBSTEPS RUNTYPE(SAVINGS) DDN(AAISAVGS) JOBNAME(MYJOB)
```

**Example**

The following command reports the total Application Accelerator resource savings and shows the savings for each job step whose job name begins with *AAI*. The report is placed in data set *yourReportDsn*.

```
JOBSTEPS RUNTYPE(SAVINGS) DSN(yourReportDsn) JOBNAME(AAI*)
```

**Example**

The following command shows the Application Accelerator resource savings of an execution of a job step and places it in data set *yourReportDsn*. The report contains all job steps for which data is available in the repositories.

```
JOBSTEPS RUNTYPE(HISTORY) DSN(yourReportDsn)
```

**Example**

The following command shows the Application Accelerator resource savings of an execution of a job step and places it in data set AAIHIST. The report contains all job steps that match the specified criteria for which data is available in the repositories.

```
JOBSTEPS RUNTYPE(HISTORY) DDN(AAIHIST) - JOBNAME(MYJOB) STEPNAM(STEP1) PROCSTEP(PROC1) - PROGNAME(MYPGM) PSBNAME(MYP$B) IMSID(XXX) MVSID(IMSX) TYPE(BMP)
```
Description of data columns on the resource savings reports

The IMS resource savings reports contain different information depending on which value you specified for the REPORT_TYPE keyword in the JOBSTEPS command:

- Specifying REPORT_TYPE(SAVINGS) generates the Resource Savings Report.
- Specifying REPORT_TYPE(HISTORY) generates the JOBSTEP History Report.

Data columns on the Resource Savings Report

The Resource Savings Report shows the accumulated savings for the current profile of each job step. The top portion of this report contains the overall results for all optimized job steps, as follows:

- **TOTAL OPTIMIZED JOB STEPS**
  The total number of steps for which Application Accelerator has found optimization data in the repository

- **TOTAL CPU SERVICE UNITS**
  The total number of CPU service units that optimization saved for all optimized job steps

- **TOTAL ELAPSED TIME IN SECONDS**
  The total number of elapsed seconds that optimization saved for all optimized job steps

- **TOTAL EXCP’S**
  The total number of execute channel program (EXCP) operations that optimization saved for all optimized job steps

The remainder of the report shows results for individual job steps:

- Columns that identify the job step
  JOBNAME, STEPNAME, PROCSTEP, PGMNAME, PSBNAME, IMSID, MVSID, and TYPE

- **SAVED CPU SERVICE UNITS**
  The calculated total number of CPU service units that optimization prevented this job step from consuming

- **SAVED ELAPSED SECONDS**
  The total number of elapsed seconds that optimization prevented this job step from consuming
SAVED EXCP'S
The total number of execute channel program (EXCP) operations that optimization prevented this job step from consuming

TOTAL RUNS
The number of executions of this job step for which Application Accelerator found optimization data in the repository

STATUS
Whether the job step was optimized or monitored

Data columns on the JOBSTEP History Report

The JOBSTEP History Report shows the savings for each execution of each job step for which data is available. This report includes a row for each job step execution that is available in the repositories and that matches the specified criteria. If no criteria is specified, the report contains all job steps. The rows are formatted with comma-delimited columns to facilitate export to a spreadsheet. The report contains:

DETAIL_TYPE
The type of repository record. D indicates detail, M monthly, and Y yearly records.

JOBNAME, STEPNAME, PROCSTEP, PGMNAME, PSBNAME, IMSID, MVSID, and TYPE
Columns that identify the job step

RUN_DATE
The date on which the job step executed

RUN_TIME
The time at which the job step executed. Zeros are used for monthly and yearly records.

NO_EXECUTIONS
The number of executions (always displays 1 for detail records, and the number of executions accumulated for monthly and yearly records)

BASE_DLI
The number of DL/I calls that the job step made before Application Accelerator optimized it
- **TOTAL_DLI**
  The total number of DL/I calls that were made during the execution of this job step. For monthly and yearly records, the number is an average for the number of executions.

- **BASE_CPU**
  The CPU service units that the job step used before Application Accelerator optimized it. For monthly and yearly records, the number is an average for the number of executions.

- **TOTAL_CPU**
  The total number of CPU service units that were consumed during execution of this job step. For monthly and yearly records, the number is an average for the number of executions.

- **SAVED_CPU**
  The calculated total number of CPU service units that optimization prevented this job step from consuming. For monthly and yearly records, the number is an average for the number of executions.

- **BASE_WALL**
  Elapsed seconds that the job step used before Application Accelerator optimized it. For monthly and yearly records, the number is an average for the number of executions.

- **TOTAL_WALL**
  The total number of elapsed seconds that were consumed during execution of this job step. For monthly and yearly records, the number is an average for the number of executions.

- **SAVED_WALL**
  The total number of elapsed seconds that optimization prevented this job step from consuming. For monthly and yearly records, the number is an average for the number of executions.

- **BASE_EXCP**
  The number of EXCPs that the job step used before Application Accelerator optimized it. For monthly and yearly records, the number is an average for the number of executions.

- **TOTAL_EXCP**
  The total number of EXCPs that were consumed during execution of this job step. For monthly and yearly records, the number is an average for the number of executions.
- **SAVED_EXCP**
  The total number of EXCPs that optimization prevented this job step from consuming. For monthly and yearly records, the number is an average for the number of executions.

- **TOTAL_OPTIMIZED_DLI**
  The total number of DL/I calls that optimization prevented this job step from making. For monthly and yearly records, the number is an average for the number of executions.

If you specified METHODS=Yes, the report also includes the following columns:

- **UAPI**
  Y means optimization was done using Custom I/O.

- **VSAMP**
  Y means optimization was done using DFSVSAMP tuning.

- **OSAMS**
  Y means optimization was done using OSAM Sequential Buffering.

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### Enhancements and corrected problems

Application Accelerator uses the following types of tracking IDs for enhancements and problems:

<table>
<thead>
<tr>
<th>Type</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>Defect</td>
<td>QMnnnnnnnnnnnn</td>
</tr>
<tr>
<td>Request for enhancement (RFE)</td>
<td></td>
</tr>
<tr>
<td>Program temporary fix (PTF)</td>
<td>xxxnnnn</td>
</tr>
</tbody>
</table>

This release corrects the following problems and implements these enhancements:

<table>
<thead>
<tr>
<th>Tracking ID</th>
<th>PTF</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>QM1882812</td>
<td>BQQ1097</td>
<td>Support the IBM Program Restart Facility</td>
</tr>
<tr>
<td></td>
<td>BQQ0461</td>
<td>For additional information, see “IBM Program Restart Facility support” on page 3.</td>
</tr>
<tr>
<td></td>
<td>BQQ0463</td>
<td></td>
</tr>
<tr>
<td>QM1885942</td>
<td>BQQ1305</td>
<td>CPC$INCL not active due to Application Accelerator intercept not being active</td>
</tr>
<tr>
<td>QM1885716</td>
<td>BQQ1285</td>
<td>Possible 0C4 abend running under Application Accelerator when processing a PDF database</td>
</tr>
<tr>
<td>Tracking ID</td>
<td>PTF</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>--------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>QM1880494</td>
<td>BQQ0987</td>
<td>Possible CPU loop for BMP job steps with DBPCBs for HALDB databases that have a PROCOPT other than GO*</td>
</tr>
<tr>
<td>QM1876394</td>
<td>BQQ0753</td>
<td>Reduce CPC address space resource usage for job steps with large numbers of IMS database data sets</td>
</tr>
<tr>
<td>QM1872193</td>
<td>BQQ0561</td>
<td>Correct support for HALDB secondary index PROCSEQ processing with unhealed SNX pointers</td>
</tr>
<tr>
<td>QM1870718</td>
<td>BQQ0492</td>
<td>Support BMP job steps that use DB2 and have the program name equal to the PSB name</td>
</tr>
<tr>
<td>QM1870533</td>
<td>BQQ0484</td>
<td>Add a batch report, $IBO$RPT, to each job step giving an Application Accelerator summary of activity and planned optimization actions</td>
</tr>
<tr>
<td>QM1869441</td>
<td>BQQ0786</td>
<td>Avoid using back-leveled BMC LOADLIBs when job steps are evaluated for optimization but not selected for optimization</td>
</tr>
<tr>
<td>QM1861873</td>
<td>BQQ0255</td>
<td>Various minor performance improvements</td>
</tr>
<tr>
<td>QM1859771</td>
<td>BQQ0190</td>
<td>IBM RACF errors at BMP termination closing STEPLIB when using alternate ACEE</td>
</tr>
<tr>
<td>QM1859654</td>
<td>BQQ0188</td>
<td>Optimized DBB or BMPs with compressed or variable-length segments and no pointers in their segment prefix that use excessive CPU time</td>
</tr>
<tr>
<td>QM1859651</td>
<td>BQQ0186</td>
<td>Add toleration support for Application Accelerator to allow optimization of non Fast Path PCBs in a PSB that contains Fast Path PCBs</td>
</tr>
</tbody>
</table>

**Documentation updates**

These release notes and the Application Accelerator online Help document all of the version 1.3.00 changes. BMC plans to update the other Application Accelerator product documents for future release.

*Note*

The *Database Products for IMS Configuration Guide* has been renamed the *Database Products for IMS 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

## Installation

Application Accelerator is installed by using the Installation System. This section contains installation information that supplements or supersedes the information in the Installation System documentation.

Starting with version 3.0.00 of the Installation System, you install it and maintain it by using SMP/E. After creating the Installation System SMP/E environment, you apply PTFs to keep it updated. (The PTFs support releases of new BMC products, or fix problems in the Installation System itself.) You will not need to install the Installation System again until BMC releases a new version of it. For more information about this change, see the Installation System documentation.

Before starting any installation, check for and apply any PTFs for the Installation System. BMC recommends using BMC Internet Service Retrieval (BMC ISR) to obtain PTFs. For more information, see the Installation System documentation.

To download the Installation System for the first time, complete these 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.
A BMC support user ID and password are required.

2 Click **Installation**.

3 Click the method you want to use to obtain the Installation System.

4 Follow the procedures.

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

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**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 and upgrade considerations**

When you migrate or upgrade the software, consider the following items:

- The Application Accelerator repository will be upgraded when the new release is used.

- Before beginning an upgrade, back up your CPC repositories.

**FMID and version information**

Application Accelerator uses version 3.0.00 of the Installation System. The maintenance version is 3000, which is used in the Installation System setup utility.
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:

<table>
<thead>
<tr>
<th>FMID</th>
<th>Product or component</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASAR71C</td>
<td>SAS_C and SAS_C++ V71</td>
<td>7.1.00</td>
</tr>
<tr>
<td>BBASC70</td>
<td>SAS_C V70B</td>
<td>7.0.00</td>
</tr>
<tr>
<td>BBBBP11</td>
<td>BMC Primary Subsystem</td>
<td>1.1.00</td>
</tr>
<tr>
<td>BBBCS11</td>
<td>BMC SUBSYSTEM</td>
<td>1.1.00</td>
</tr>
<tr>
<td>BBYXM13</td>
<td>BASE TECHNOLOGY</td>
<td>1.3.00</td>
</tr>
<tr>
<td>VICO150</td>
<td>IMS COMMON CODE - REGION CONTROLLER</td>
<td>1.5.00</td>
</tr>
<tr>
<td>XICO120</td>
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<td>ZBMR15E</td>
<td>ISR External Routines</td>
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<td>Backup and Recovery Solution for IMS</td>
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<td>BMC Support Tool</td>
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<td>DNA Host Services</td>
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<td>Dignus C runtimes and c++ objects</td>
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<td>ZXBM620</td>
<td>Extended Buffer Manager</td>
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The preceding table contains the FMIDs for Application Accelerator 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 product maintenance by using either BMC ISR or eFix PTF Distribution Services ([http://efix.bmc.com](http://efix.bmc.com)).

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 ensure that all required FMIDs are applied.

BMC provides fixes for Application Accelerator 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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