APPLICATION RESTART CONTROL
Version 4.0.00
December 10, 2014

BMC originally issued these release notes on December 5, 2014. They are being reissued to remove an incorrect statement from the "What's new" topic, which indicated that this version of APPLICATION RESTART CONTROL (AR/CTL) supports IBM IMS VNext.

BMC is releasing version 4.0.00 of the APPLICATION RESTART CONTROL (AR/CTL) products.

These release notes apply to the following products:

- APPLICATION RESTART CONTROL *for IMS*, which includes the BATCH CONTROL FACILITY (BCF) component
- APPLICATION RESTART CONTROL *for DB2*
- APPLICATION RESTART CONTROL *for VSAM*

*Note*
Before you begin installation, BMC recommends that you check the Support Central website at http://www.bmc.com/support for:

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

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

The following topics are discussed:

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IBM DB2 two-phase commit

AR/CTL for DB2 now allows you to enable two-phase commit processing with IBM DB2 and MQ by using the Resource Recovery Services Attachment Facility (RRSAF). If you use RRSAF to attach to DB2, you can now specify the RRSAF method (RRS) on the DB2 attach type option.

With this enhancement, AR/CTL for DB2 can now perform the following actions:

- Calls DSNRLI, with the appropriate functions, to establish a connection to the DB2 subsystem
- Passes EXEC SQL requests to DB2
- Normal termination, calls RRS and DSNRLI as follows:
  - Calls RRS to commit the unit of work (if required)
  - Calls DSNRLI, with the appropriate functions, to terminate the connection with the DB2 subsystem
- Abnormal termination, calls RRS and DSNRLI as follows:
  - Calls RRS to back out any unit of work that is in progress (if required)
— Calls DSNRLI, with the appropriate functions, to terminate connection with the DB2 subsystem

**Support for IBM Enterprise COBOL for z/OS version 5.1**

AR/CTL now supports Version 5.1 of IBM Enterprise COBOL for z/OS.

**Support for BMC Subsystem Optimizer**

AR/CTL now supports Version 1.1.00 of the following BMC Subsystem Optimizer for zEnterprise (Subzero) products for the IBM zEnterprise environment:

- BMC Subsystem Optimizer for DB2
- BMC Subsystem Optimizer for IMS

**New default for DB2 attach type option**

CAF is now the default value for the DB2 attach type option on the DB2 Options panel.

**Batch Registration utility**

The new AR/CTL Batch Registration utility (program name AESURNPR) migrates records from a non-IMS application program and then populates the REGISET with the migrated records.

The AESURNPR program can only be used for batch processing and can run at anytime the target BMC Consolidated Subsystem (BCSS) is running. To run the utility, you must provide input (TRANSIN) and output (TRANSOUT) files in the JCL for the records you want to populate (add), update (replace), or both in the REGISET.

For more information, see the *APPLICATION RESTART CONTROL Reference Manual.*
ARCINFO0 API

AR/CTL provides the new ARCINFO0 application programming interface (API) to retrieve job-related information. When AR/CTL is present in your environment (IMS or non-IMS), you can use the ARCINFO0 API to return AR/CTL job information.

To execute the API, add a call to ARCINFO0 in your application program.

The ARCINFO0 API can return the following job information:

- Job name
- Step name
- Procedure step name
- Application program name
- IMS subsystem identifier
- PSB name
- DB2 subsystem name
- DB2 plan name

For more information, see the APPLICATION RESTART CONTROL Reference Manual.

Documentation correction

You are not required to perform an IPL each time you install or update BCF. In the APPLICATION RESTART CONTROL Reference Manual: BATCH CONTROL FACILITY, the "Enhanced processing" topic states that you must run the AESENH00 maintenance program after each IPL. (AESENH00 removes and installs the enhanced processing routines.) However, this statement is not meant to imply that an IPL is required each time you install or update BCF. Whenever an IPL is required, BMC will explicitly state the requirement in the associated release notes, technical bulletin, flash, or PTF.

Note

BMC plans to update this information in the next release of the reference manual.
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**
   
   To request physical shipments, contact your BMC sales representative. Contact information is available on the BMC website.

AR/CTL products are installed by using the Installation System. This section contains installation information that supplements or supercedes 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.

Installation considerations

The following considerations apply when you use the Installation System to install AR/CTL data sets:

- For AR/CTL SMP/E target data sets, data set names always contain the product-specific low-level qualifiers (LLQs) that begin with ARC. An example LLQ is ARCLIB.
AR/CTL modules always reside in separate product-specific data sets (which are never combined with data sets for any other product).

The Installation System creates product-specific data sets to meet the following requirements:

- Ensure smaller execution libraries for better AR/CTL processing performance.
- Prevent module conflicts for common distributed modules (for example, DSNHLI).
- Support the AR/CTL customization CLIST, which requires product-specific LLQs (LLQs that begin with ARC) for AR/CTL data set names.

## FMID and version information

This release of the AR/CTL products uses the following versions of the Installation System and installation media:

- Version 2.4.00 or later of the Installation System
- Version 2.4.00 or later of the installation media

**Note**

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

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

<table>
<thead>
<tr>
<th>FMID</th>
<th>Product or component</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZPWD330</td>
<td>BMC Password Security System</td>
<td>3.3.00</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>ZARC400</td>
<td>Application Restart Control</td>
<td>4.0.00</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 the AR/CTL products 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.

**Note**

Before applying maintenance, ensure that you have successfully run the $176APLF job to set up your maintenance environment.

### Configuration

The AR/CTL products are configured by using the AR/CTL Install System (AESIS) as described in the *APPLICATION RESTART CONTROL Configuration Guide*. 
After AESIS has modified the AR/CTL customization JCL, edit member $Q10UPOP in HLQ.ARCCUST to comment out the DD statement for DDNAME ARVFCTAB in the AESURPOP job step. (Replace HLQ with your site's high-level qualifier.)

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 Quick Course videos (short overviews of selected product concepts, tasks, or features), which are available from the following locations:
  — Documentation Center
  — Support Central (at http://www.bmc.com/support/mainframe-demonstrations)
  — BMC Mainframe YouTube channel (https://www.youtube.com/user/BMCSwoftwareMainframe)

- View individual product documents (books and notices) within the “A – Z Supported Product List”

You can order hardcopy documentation from your BMC sales representative or from the support site. You can also subscribe to proactive alerts to receive e-mail messages when notices are issued.
Customer support

If you have problems with or questions about a BMC product, see the support website at http://www.bmc.com/support. You can view or download product documents, find answers to frequently asked questions, and download products and maintenance. If you do not have access to the web and you are in the United States or Canada, contact Customer Support at 1 800 537 1813. Outside the United States or Canada, contact your local BMC office or agent.

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