BMC originally issued these release notes on September 14, 2012. They are being reissued to include additional PTFs that you must apply after installation. Revision bars in these release notes denote differences from previous editions.

BMC Software is releasing version 6.1.00 of the MainView Infrastructure product.

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:

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What’s new

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

Dynamic thresholds

This release includes a new, more flexible type of thresholds called dynamic thresholds.

For more information about dynamic thresholds, see the MainView Threshold Management Guide.

Overview of dynamic thresholds

Thresholds control the following aspects of your MainView environment:

- In a view, MainView highlights the corresponding field for a data element by changing its color.
- In an alarm, MainView sets the severity level and triggers the defined action, such as generating a message.

Traditional MainView thresholds can be defined for a specific view by using view customization or creating an alarm definition. These thresholds apply only to the view or alarm where they are defined, and they remain constant for every hour of every day of the week. After they are defined, these individual thresholds can be difficult to find and update.

Dynamic thresholds add the ability to:

- Define thresholds for an element wherever it appears in any MainView product view or alarm definition (unless you override the threshold for a specific view or alarm)
- Specify different thresholds for different times of the day or week
- Deploy threshold definitions to multiple systems, as appropriate

Dynamic threshold components

Dynamic thresholds consist of threshold sets for an element and calendar periods during which those threshold sets should be used. This combination of threshold set and calendar period is referred to as a threshold selection. Threshold selections are the basis for dynamic thresholds in your MainView environment.
The basic steps to defining dynamic thresholds are:

1. Define a threshold set for a data element that you want to monitor by using:
   — MAKETHR command on a MainView product view
   — THRSET view

2. Define a calendar period with time spans that indicate when the calendar period should be active by using the CALDEFS and CALDEF views.

3. Define a threshold selection to associate the threshold set with the calendar period by using the THRSEL view.

--- EXAMPLE ---
1. Define two threshold sets for the CPUBsy% data element:
   — AMTHRESH with a critical threshold value of 95
   — PMTHRESH with a critical threshold value of 90

2. Define two calendar periods:
   — AM represents 08:00–12:00
   — PM represents 12:00–18:00

3. Define a threshold selection by associating the threshold sets with the calendar periods, like this:
   — AMTHRESH threshold set should be active during the AM calendar period
   — PMTHRESH threshold set should be active during the PM calendar period

Now you have a dynamic threshold for data element CPUBsy% that:

- Is in effect for all views and alarms where that element is used
- Varies by time of day to match your business activity

Dynamic threshold views

You can use the following new views to create and manage dynamic thresholds:

<table>
<thead>
<tr>
<th>Category</th>
<th>View name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threshold sets and definitions</td>
<td>THRSETS</td>
<td>List of all threshold set definitions</td>
</tr>
<tr>
<td></td>
<td>THRSET</td>
<td>Details about a specific threshold set definition</td>
</tr>
<tr>
<td></td>
<td>THRACT</td>
<td>List of currently active threshold sets</td>
</tr>
<tr>
<td></td>
<td>THREXPL</td>
<td>List of threshold set definitions for a specific element, and information about how the threshold sets are being used</td>
</tr>
</tbody>
</table>
Impact of dynamic thresholds

In this release, all existing views and alarms continue to operate without change; if you do not create any dynamic thresholds, nothing about your thresholds will change.

However, when you define dynamic thresholds for a data element, those thresholds are, by default, in effect for every instance of the element in every MainView product view and alarm definition. If you decide that you need a different threshold for a specific instance of an element, you can:

- Use the CUST command to customize a view where the element appears, and specify Dynamic=N.

- Use the MAKEALARM wizard to create an alarm definition for the element or edit an existing alarm definition for the element, and specify Use Dynamic Threshold? NO.

MainView Threshold Advisor component

One problem with traditional MainView thresholds has been deciding what threshold values to set; the decision is most often made by trial and error. The new MainView Threshold Advisor component is a web-based application that can help automate the process of developing meaningful and effective thresholds.

MainView Threshold Advisor performs the following actions:

- Collects MainView performance data from one or more MainView host servers on the mainframe

- Stores the collected data in its own database on a Microsoft Windows server
- Performs statistical analysis on the collected data
- Generates recommended threshold values

Using MainView Threshold Advisor on a personal computer, you can:

- Select the MainView performance data that you want to collect for statistical processing
- Define *business weeks*, which are collections of calendar periods that represent a typical week of business activity at your site
- Display recommended threshold values for a given data element in tabular and graphical formats
- Push recommended threshold values for a data element to the mainframe for use by your MainView performance monitors

After you push a set of thresholds and calendar periods from MainView Threshold Advisor to the mainframe, MainView treats them as dynamic thresholds. The definitions for those thresholds and calendar periods are displayed in the same views as dynamic thresholds that you define manually.

Currently, MainView Threshold Advisor can generate recommended thresholds for the following MainView products:

- CMF MONITOR
- MainView for CICS®
- MainView for DB2®
- MainView for IMS™
- MainView for WebSphere® MQ
- MainView for z/OS®

For information about MainView Threshold Advisor, see the *MainView Threshold Management Guide*. 
CASPERM registry

The CASPERM registry is a new instance of a Runtime Component System (RTCS) product registry that is used to store MainView object definitions (such as dynamic threshold definitions). Each coordinating address space (CAS) in your MainView environment must have its own CASPERM registry; the registry cannot be shared by multiple CASs. A CASPERM registry is normally allocated for the local CAS during installation, as part of the customization process.

For information about managing the CASPERM registry, see the MainView Administration Guide.

User Interface Middleware (UIM) server

MainView Infrastructure now uses the User Interface Middleware (UIM) server, which provides web services support for BMC products. The UIM server supports uploading threshold data from MainView Threshold Advisor to MainView Infrastructure.

For information about migration considerations related to the UIM server, see “UIM server” on page 12. For information about managing the UIM server after it is installed, see the MainView Administration Guide.

Registry Maintenance Utility (RMU)

The RTCS Registry Import Utility (RIU) has been significantly enhanced and renamed to Registry Maintenance Utility (RMU). The enhanced utility enables you to perform a logical backup and restore of any RTCS registry, including the RTCS system registry. You can also use the RMU to expand the size of a registry.

For information about using the RMU, see the BMC Runtime Component System Configuration and Administration Guide.
Job status views

This release includes new views that display status information and job output from the JES queues. Both JES2 and JES3 are supported. The following views are provided:

<table>
<thead>
<tr>
<th>View name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOBSTAT</td>
<td>Displays status information about jobs, TSO users, and started tasks</td>
</tr>
<tr>
<td>JOBLSTO</td>
<td>Displays a list of output data sets that are associated with a job</td>
</tr>
</tbody>
</table>

For information about the job status views, see the online Help or the MainView Administration Guide.

**NOTE**

As distributed, the job status views enable users to display information only about their own jobs. To grant users access to information about other jobs, TSO users, and started tasks, you must use the Job Status List resource definitions, as described in the MainView Security Reference Manual.

CASINFO view

The CASINFO view has been updated with additional information about the status of MainView components, including:

- MainView host server
- MainView Infrastructure common registry
- CASPERM registry
- UIM server
- MainView Alarm Management

For information about the new fields on CASINFO, see the online Help. For information about using CASINFO to check the status of MainView components, see the MainView Threshold Management Guide.
Version 6.0 enhancements in version 6.1

The following enhancements that were made to MainView Infrastructure version 6.0 have been incorporated into version 6.1:

- Deployment of CASDEF, CONDEF, and TGTDEF definitions to other systems
- Enhanced MainView Explorer export functions
- Stand-alone MVE Viewer
- MainView Explorer containers, which are similar to screens in windows mode
- Filter masks in windows mode

Installation

Download the latest version of MainView Infrastructure 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.

MainView Infrastructure is 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

This section contains software, hardware, or other requirements for MainView Infrastructure.

**System requirements**

MainView Infrastructure version 6.1 requires a minimum of IBM® z/OS® Version 1.11.

**Maintenance requirements**

After you install MainView Infrastructure version 6.1, you must apply the following PTFs.
Installation changes

These topics describe changes to the installation process.

Customization process

The installation and customization of MainView Infrastructure 6.1 has changed to incorporate new technologies and processes:

NOTE
These PTFs will be incorporated into the next level of PUT maintenance, PUT1202B. If you are installing MainView Infrastructure with PUT1202B or later, these PTFs will be included automatically. If you are installing with PUT1202A, you must download and apply these PTFs.

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).

<table>
<thead>
<tr>
<th>PTF/APAR</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPY9934</td>
<td>A transposed histogram is not generated if the primary sort field is not a time or date field.</td>
</tr>
<tr>
<td>BPY9854</td>
<td>A timing problem occurs during CAS termination that could result in OSZ0100E messages with a reason code of 00000142 and an S0C4 or S0E0 abend.</td>
</tr>
<tr>
<td>BPY9886</td>
<td>Table names were added to online view Help. Also, element help threshold messages were updated with possible dynamic threshold overrides.</td>
</tr>
<tr>
<td>BPY9914</td>
<td>Using PF3 from the THRSELS view in SSI mode causes an abend when no CASPERM is allocated.</td>
</tr>
<tr>
<td>BPY9921</td>
<td>Extraneous BBMXC051E messages are issued; subsequent attempts to deallocate an object instance should be prevented.</td>
</tr>
<tr>
<td>BPY9922</td>
<td>Older versions of definitions are not being deleted. Also, an error occurs when threshold sets and threshold selections are deployed.</td>
</tr>
<tr>
<td>BPY9944</td>
<td>The Alarm Management evaluation engine causes problems with alarms that contain quoted condition values.</td>
</tr>
<tr>
<td>BPY9947</td>
<td>Resource security definitions for the job status views (JOBSTAT and JOBLSTO) are incorrect.</td>
</tr>
<tr>
<td>BP00139</td>
<td>Updated sample JCL and required maintenance to run the Registry Maintenance Utility.</td>
</tr>
<tr>
<td>BP00224</td>
<td>Valid console commands to the CAS are incorrectly flagged as being in error.</td>
</tr>
</tbody>
</table>
MainView Infrastructure is now considered a global infrastructure component, which means it is one of the first components that you customize within the Installation System. To customize MainView Infrastructure 6.1, you use the OZI Customization method instead of MainView Customization.

MainView Infrastructure now uses the runtime enablement (RTE) process. RTE produces the same MainView data sets as previous installation processes.

For information about installing and customizing MainView Infrastructure, see the Installation System User Guide.

CASPERM registry

The new CASPERM registry is an RTCS product registry. One CASPERM registry is required for each CAS in your MainView environment; a CASPERM registry cannot be shared by multiple CASs. During customization, you must allocate a VSAM linear data set (VLDS) to support the CASPERM registry on the local CAS.

UIM server

To upload threshold data from MainView Threshold Advisor to MainView Infrastructure, the UIM server communicates with a single CAS. During customization, you must identify the CAS with which you want the UIM server to communicate. The CAS that you specify deploys the uploaded data to all other affected CASs to which it is connected.

MainView Threshold Advisor component

The MainView Threshold Advisor component must be installed separately on a Microsoft Windows server platform. This component consists of:

- BMC Capacity Management Database (CDB) server
- MainView Threshold Advisor server

You can install the MainView Threshold Advisor server on the same machine as the CDB server or on a different machine.

For information about setting up MainView Threshold Advisor, see the MainView Threshold Management Guide.

**NOTE**

When you use MainView Threshold Advisor, you must identify:

- MainView host servers from which you want to collect performance data
- UIM server that communicates with the system where you want to push threshold data
Installation documentation

The following changes have been made to the installation documentation for MainView Infrastructure and MainView products:

- The Installation System User Guide has replaced the MainView Installation Guide. The Installation System User Guide is a common installation guide for all products that use the Installation System on IBM z/OS systems.

- The “MainView migration considerations” appendix has moved from the MainView Installation Guide to the MainView Customization Reference.

Migration considerations

These topics describe items that you should consider when you migrate to this release of MainView Infrastructure.

RTCS

When you migrate RTCS, consider the following items:

- BMC recommends that you use the backup and restore feature of the new Registry Maintenance Utility (RMU) to expand the size of the RTCS system registry from 100 to 300 cylinders.

  The RTCS system registry (the registry that the RTCS address space uses) is now used to store previous versions of dynamic threshold definitions. The volume of data being stored can be significant if you have a large number of LPARs and dynamic threshold definitions.

- If you are running MainView for UNIX® System Services and you have RTCS 1.1.02 or earlier installed on your system, a new version of RTCS (1.2.00) will be installed when you install MainView Infrastructure 6.1. You can run only one version of RTCS on an LPAR at a time. To migrate to RTCS 1.2.00, you must:

  — Stop and restart RTCS and all products that use RTCS.

  — Delete and redefine your RTCS 1.1.02 system registry before initializing MainView Infrastructure 6.1. The internal format of the system registry changed in RTCS 1.2.00.
UIM server

The UIM server technology, which has been added to MainView Infrastructure 6.1, might already be in use at your site by BMC products for IMS and DB2. This topic describes the effective use and management of UIM server technology by multiple products.

UIM server FMID and version management

- The UIM server package consists of the following FMIDs:
  - ZUSC540 - UIM Common Services
  - ZUIM540 - User Interface Middleware Server
  - ZUWS540 - UIM Web Services

- Each version of the UIM server and its components define a new set of FMIDs.
- Each new version deletes the previous version’s FMIDs.
- Some BMC products for DB2 use only the UIM Common Services (USC) component. Updates to the USC FMID in this release might also affect those products.
- You should use separate SMP/E target zones to maintain previous versions of the UIM server FMIDs, as appropriate for existing BMC products.

Installation System

By default, the Installation System takes the following actions:

- Prompts you for a unique UIM server PROC name.
  
  BMC recommends that you specify a PROC name that reflects the usage and purpose of the UIM server instance.

- Creates a customized startup member whose name matches the UIM server PROC name.

- Prompts you for a TCP/IP port number that is unique to the local system.
UIM server instance management

A single UIM server instance can support multiple BMC products with the following considerations:

- The placement of a given BMC product within a UIM server instance is based on the execution requirements of that product.
  - Some DB2 products require a single instance per system.
  - Some IMS products require at least one instance per sysplex.
  - MainView Infrastructure requires one instance per group of connected CASs.

- BMC products are generally not sensitive to the version of UIM server FMIDs that they are using. For all BMC products that use the same UIM server instance, perform the following steps:
  - Update the UIM server PROC to concatenate the target libraries for all products that use the same instance. The affected ddnames are STEPLIB, HTPPARM, and HTPCONT.
  - Restart the UIM server so that the PROC changes take effect for all products.

MainView Alarm Manager 2.1

If you are running MainView Alarm Manager 2.1 and you want to migrate to MainView Alarm Management 6.0 or 6.1, you can still run the alarm migration tool to convert your alarms. The MainView Alarm Management file structure did not change between versions 5.0, 6.0, and 6.1.

NOTE
MainView Alarm Manager 2.1 is no longer supported; you should migrate to MainView Alarm Management as soon as you can reasonably do so.

FMID and version information

This release of MainView Infrastructure uses the following versions of the Installation System and installation media:

- Version 2.3.40 or later of the Installation System
- Version 2.3.40 or later of the M-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>FMID</th>
<th>Component</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASAR71C</td>
<td>SAS C Library</td>
<td>7.1</td>
</tr>
<tr>
<td>ASAR71D</td>
<td>SAS C V71</td>
<td>7.1</td>
</tr>
<tr>
<td>BBACM20</td>
<td>Common Menu Function</td>
<td>2.0</td>
</tr>
<tr>
<td>BBAPW32</td>
<td>BMC Password Security System</td>
<td>3.2</td>
</tr>
<tr>
<td>BBBBX16</td>
<td>BBX Subsystem Services</td>
<td>1.6</td>
</tr>
<tr>
<td>BBGAD41</td>
<td>Dynamic Area Manager</td>
<td>4.1</td>
</tr>
<tr>
<td>BBISS25</td>
<td>Integrated Subsystem</td>
<td>2.5</td>
</tr>
<tr>
<td>BBISS26</td>
<td>BBI2 Infrastructure Subsystem</td>
<td>2.6</td>
</tr>
<tr>
<td>BBLBQ11</td>
<td>IMF Service Point</td>
<td>1.1</td>
</tr>
<tr>
<td>BBOIM72</td>
<td>Integration Manager for z/OS</td>
<td>7.2</td>
</tr>
<tr>
<td>BBOI072</td>
<td>ZIM Release FMID</td>
<td>7.2</td>
</tr>
<tr>
<td>BBTTC11</td>
<td>MainView TCP/IP Interface</td>
<td>1.1</td>
</tr>
<tr>
<td>BBYZX33</td>
<td>Base Technology Stubs</td>
<td>3.3</td>
</tr>
<tr>
<td>LOSZ120</td>
<td>RTCS C Library</td>
<td>2.0</td>
</tr>
<tr>
<td>LSCR50I</td>
<td>SAS C V5</td>
<td>5.0</td>
</tr>
<tr>
<td>ZBBA220</td>
<td>Product Customization</td>
<td>2.2</td>
</tr>
<tr>
<td>ZBBM610</td>
<td>MainView Infrastructure</td>
<td>6.1</td>
</tr>
<tr>
<td>ZBMR15E</td>
<td>ISR External Routines</td>
<td>1.5</td>
</tr>
<tr>
<td>ZDZS17C</td>
<td>Discovery for z/OS Data Collector</td>
<td>1.7</td>
</tr>
<tr>
<td>ZOSZ120</td>
<td>RTCS Kernel</td>
<td>2.0</td>
</tr>
<tr>
<td>ZUIM540</td>
<td>UIM User Interface Middleware</td>
<td>5.4</td>
</tr>
<tr>
<td>ZUSC540</td>
<td>UIM Common Services</td>
<td>5.4</td>
</tr>
<tr>
<td>ZUWS540</td>
<td>UIM Web Services</td>
<td>5.4</td>
</tr>
</tbody>
</table>

The preceding table contains the FMIDs for MainView Infrastructure 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 (IMS products).

— mxx_ozi_tape_product_list.txt lists products and components for the M-series installation (MainView products).

The reports are also available on the BMC electronic software distribution (ESD) site at ftp://epddownload.bmc.com/bmc/esd/ozi/ (contact Customer Support for a password) and in the ESD readme file at http://www.bmc.com/support/downloads-patches/electronic-downloads-instructions.html.

Maintenance

After you install MainView Infrastructure, 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.

**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.
NOTE
The MainView Alarm Manager version 2.1 component is no longer supported. The functions that were provided by that component are supported in MainView Alarm Management versions 6.0 and 6.1.

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, or to view demos (short overviews of selected product concepts, tasks, or features)
- 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 800 537 1813. Outside the United States or Canada, contact your local BMC office or agent.