# Product Installation and Maintenance Guide (AIM and SMP/E)

November 1, 2000

bmcsoftware

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## Contacting BMC Software

You can access the BMC Software Web site at **http://www.bmc.com**. From this Web site, you can obtain general information about the company, its products, special events, and career opportunities. For a complete list of all BMC Software offices and locations, go to **http://www.bmc.com/corporate/offices.html**.

### USA and Canada

| | |
|---|---|
| **Address** | BMC Software, Inc.<br>2101 CityWest Blvd.<br>Houston TX 77042-2827 |
| **Telephone** | 713 918 8800 or<br>800 841 2031 |
| **Fax** | 713 918 8000 |

### Outside USA and Canada

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|---|---|
| **Telephone** | (01) 713 918 8800 |
| **Fax** | (01) 713 918 8000 |

# Customer Support

You can obtain technical support by using Response Online™ (comprehensive information from the Web) or Response On Demand™. To expedite your inquiry, please see “Before Contacting BMC Software,” below.

## Response Online

You can obtain technical support from BMC Software 24 hours a day, seven days a week by accessing the technical support Web site at **http://www.bmc.com/support.html**. From this site, you can

- read overviews about support services and programs that BMC Software offers
- find the most current information about BMC Software products
- search a database for problems similar to yours and possible solutions
- order or download product documentation
- report a problem or ask a question
- subscribe to receive e-mail notices when new product versions are released
- find worldwide BMC Software support center locations and contact information, including e-mail addresses, fax numbers, and telephone numbers

## Response On Demand

In the USA and Canada, if you need technical support and do not have access to the Web, call 800 538 1872. Outside the USA and Canada, please contact your local support center or your local sales office for assistance.

## Before Contacting BMC Software

Before you contact BMC Software, have the following information available so that a technical support analyst can begin working on your problem immediately:

- product information
  - product name
  - product version (release number)
  - license number and password (trial or permanent)
- operating-system and environment information
  - machine type
  - operating system type, version, and service pack or maintenance level
  - system hardware configuration
  - serial numbers
  - related software (database, application, and communication) including type, version, and service pack or maintenance level
- sequence of events leading to the problem
- commands and options that you used
- messages received (and the time and date that you received them)
  - product error messages
  - messages from the operating system, such as `file system full`
  - messages from related software

# Contents

**Chapter 1. Product Distribution Methods** . . . . . 1
Automatic Installation Method (AIM) . . . . . 1
System Modification Program Extended (SMP/E). . . . . 1
Product Installation Considerations . . . . . 2
Installing All New BMC Software Products. . . . . 2
Installing Trial Products with Existing BMC Software Products . . . . . 3
Applying Maintenance to Existing Products. . . . . 4
Product Maintenance Tapes . . . . . 4
BBCAND Tape . . . . . 4
BBPUT Tape . . . . . 4
BBCUM Tape . . . . . 6
Terminology and Naming Conventions . . . . . 6
BMC Software Packaging Terminology . . . . . 6
BMC Software Product Packaging Naming Conventions. . . . . 7

**Chapter 2. Installation Prerequisites** . . . . . 11
Software Requirements . . . . . 12
Storage Requirements. . . . . 17
DASD Storage for AIM-Installed Products . . . . . 17
DASD Storage for SMP/E-Packaged Products. . . . . 17
DASD Storage Adjustments for Common Code . . . . . 21
Calculating Excess Common Code DASD Storage . . . . . 23
DASD Storage for AIM-Installed Products . . . . . 24
Virtual Storage . . . . . 25
System Requirements . . . . . 35
Before Installation. . . . . 35
Before Customization . . . . . 35

**Chapter 3. Creating Product Libraries with AIM** . . . . . 37
Step 1: Load AIM Delivery Mechanism . . . . . 37
First-time AIM Installation . . . . . 37
Existing AIM Users. . . . . 38
Step 2: Execute the AIM Program . . . . . 39
Step 3: Allocate the Product Libraries . . . . . 40
Step 4: Load Product Libraries. . . . . 40

**Chapter 4. Creating Product Libraries with SMP/E** . . . . . 43
What Is SMP/E? . . . . . 43
Requesting Product-Related Information . . . . . 44
Processing HOLDATA . . . . . 44
Downloading SMP/E Sample JCL to DASD . . . . . 45
SMP/E Installation Procedure . . . . . 46
Installing Multiple BMC Software Products. . . . . 46
Creating the SMP/E Environment. . . . . 47
Downloading Product Libraries with SMP/E . . . . . 52

**Chapter 5. Customizing the Installed Products** . . . . . 67
Using AutoCustomization . . . . . 67
Prerequisites for AutoCustomization . . . . . 67
Overview of AutoCustomization. . . . . 68
Invoking AutoCustomization . . . . . 68

Choosing a Product to Customize . . . . . 69
Customizing a Product . . . . . 70
Using Manual Customization . . . . . 72
Prerequisites for Manual Customization . . . . . 72

**Chapter 6. Preparing for SMP/E Maintenance** . . . . . 75
Preparing AIM-Installed Products for Maintenance . . . . . 75

**Chapter 7. Applying SMP/E Maintenance** . . . . . 77
Applying Maintenance with SMP/E . . . . . 77
Implementing Maintenance . . . . . 81
For AutoCustomization . . . . . 81
For MAINVIEW Products that Use a CAS Subsystem . . . . . 81

**Appendix A. SMP/E Tape Format** . . . . . 85

**Appendix B. Maintenance Tape Format** . . . . . 87

**Appendix C. Product Libraries and SMP/E FMIDs** . . . . . 89
Product FMIDs . . . . . 90
Product Target Libraries and Distribution Libraries . . . . . 103

**Appendix D. Exception System Modifications (SYSMODs)** . . . . . 117
Error Category . . . . . 117
System Category . . . . . 117
Exception SYSMOD Application with AutoCustomization . . . . . 118

**Appendix E. SMP/E Zone Considerations** . . . . . 119
Creating Target and Distribution Zones . . . . . 119
Using Existing Target and Distribution Library Zones . . . . . 120

**Glossary** . . . . . 121

**Index** . . . . . 131

# Figures


1. Organization of MAINVIEW Documentation . . . . . xv
2. JCL to Download AIM Installation Program Libraries . . . . . 38
3. IEBCOPY JCL for Common Function BBAAA20 . . . . . 45
4. AutoCustomization Product Customization Menu . . . . . 69
5. Product Customization Steps Menu . . . . . 70
6. SMP/E Tape Format . . . . . 85
7. Maintenance Tape Format . . . . . 87

# Tables


1. Example BBPUT Tape Release . . . . . 5
2. Software Requirements . . . . . 12
3. DASD Storage Requirements . . . . . 18
4. Products and Common Code Values . . . . . 21
5. Calculating DASD Storage for MAINVIEW Alternate Access . . . . . 24
6. Calculating DASD Storage for CMF Extractor . . . . . 24
7. Virtual Storage Estimates . . . . . 25
8. Data Set Allocation Job Table for SMP/E . . . . . 57
9. DD Statement Member Table for SMP/E . . . . . 59
10. DDDEF Member Table for SMP/E . . . . . 61
11. FSET Definition Job Table . . . . . 64
12. Finding Manual Customization Instructions . . . . . 73
13. Product-to-FMID Cross-Reference List . . . . . 90
14. Product and Distribution Libraries . . . . . 103

# About This Book

This book contains procedures for installing AIM- or SMP/E-packaged BMC Software products. Automatic Installation Method (AIM) is a delivery mechanism used by BMC Software to distribute any combination of BMC Software products that can be installed quickly and are SMP/E maintainable. System Modification Program Extended (SMP/E) is the IBM system maintenance program.

## Who Should Read This Book

This book should be read by those individuals who perform the following tasks:

- Installing products using AIM or SMP/E
- Preparing installed products for service using SMP/E
- Applying maintenance with SMP/E

## How This Book Is Organized

This book is organized into the following parts:

Chapter 1, “Product Distribution Methods” and Chapter 2, “Installation Prerequisites”, describe product packaging methods and installation requirements.

Chapter 3, “Creating Product Libraries with AIM” on page 37, Chapter 4, “Creating Product Libraries with SMP/E”, and Chapter 5, “Customizing the Installed Products”, contain detailed, step-by-step instructions for the SMP/E systems user who understands MVS JCL and has had some exposure to SMP/E, but who may have little SMP/E product installation experience or who may be installing the product for the first time.

Chapter 6, “Preparing for SMP/E Maintenance” and Chapter 7, “Applying SMP/E Maintenance”, contains detailed, step-by-step instructions for the SMP/E systems user who understands MVS JCL and has had some exposure to SMP/E, but who may have little SMP/E product maintenance experience or who may be applying maintenance for the first time.

Appendix A, “SMP/E Tape Format”, Appendix B, “Maintenance Tape Format”, Appendix C, “Product Libraries and SMP/E FMIDs”, Appendix D, “Exception System Modifications (SYSMODs)”, Appendix E, “SMP/E Zone Considerations”, “Glossary”, and “Index” includes information to help you with

- File formats for SMP/E and service tapes.
- Product-to-FMID reference tables for installation.
- Exception System Modifications (SYSMODs) usage.
- Zone considerations for SMP/E.
- Customer Support and the information you should have prior to calling.

## Required Reading

This book does ***not*** describe the IBM SMP/E process. If your site uses SMP/E, you need to understand the concepts presented in the following IBM books:

- *System Modification Program Extended User's Guide*
- *System Modification Program Extended Reference*

## Related Reading

Product implementation and usage information about BMC Software products can be found in the BMC Software books shipped with your product tape. Implementation information pertains to the architecture.

Implementation information for the following MAINVIEW® products is discussed in the *MAINVIEW Implementation Guide*:

- CMF® MONITOR
- *Command* MQ for S/390
- MAINVIEW® AutoOPERATOR™
- MAINVIEW® for CICS
- MAINVIEW® for DB2
- MAINVIEW® for DBCTL
- MAINVIEW® Explorer
- MAINVIEW® FOCAL POINT
- MAINVIEW® for IMS
- MAINVIEW® for IP
- MAINVIEW® for MQSeries
- MAINVIEW® for MVS
- MAINVIEW® for OS/390
- MAINVIEW® for UNIX System Services
- MAINVIEW® for VTAM
- MAINVIEW® SYSPROG Services
- MAINVIEW® VistaPoint™

Implementation information for MAINVIEW Alternate Access is discussed in the *MAINVIEW Alternate Access Implementation and User Guide*.

Implementation information for MAINVIEW Explorer is discussed in the *MAINVIEW Explorer Implementation and User Guide*.

Implementation information for RESOLVE® Storage Resource Manager (formerly SpaceView™ for MVS) is discussed in the *RESOLVE SRM Implementation Guide*.

Product-specific customization information is discussed in the following documents:

*AutoOPERATOR Customization Guide*

*CMF MONITOR Customization Guide*

*Command MQ for S/390 User's Guide*

*DASD ADVISOR™ Implementation Guide*

*InTune™ User Guide*

*MAINVIEW for CICS Customization Guide*

*MAINVIEW for DB2 Customization Guide*

*MAINVIEW for DBCTL Customization Guide*

*MAINVIEW FOCAL POINT User Guide*

*MAINVIEW for IMS Customization Guide*

*MAINVIEW for IP User Guide*

*MAINVIEW for MQSeries User Guide*

*MAINVIEW for OS/390 Customization Guide*

*MAINVIEW for UNIX System Services User Guide and Reference*

*MAINVIEW for VTAM User Guide*

*MAINVIEW VistaPoint Customization Guide*

*MAINVIEW SYSPROG Services Customization Guide*

*RxD2™ User Guide*

Complete information for customizing RESOLVE SRM beyond installation verification is contained in the following manuals:

RESOLVE SRM *Enterprise Storage Automation User Guide*

*RESOLVE SRM User Guide and Reference*

*RESOLVE SRM DMS2HSM User Guide and Reference*

*RESOLVE SRM EasyHSM User Guide and Reference*

*RESOLVE SRM EasyPOOL User Guide and Reference*

*RESOLVE SRM EasySMS User Guide and Reference*

*RESOLVE SRM SG-Auto User Guide and Reference*

*RESOLVE SRM SG-Control User Guide and Reference*

*RESOLVE SRM StopX37/II User Guide and Reference*

*RESOLVE SRM StorageGUARD User Guide and Reference*

SMP/E diagnostic information can be found in the following IBM book:

*System Modification Program Extended Messages and Codes*

## MAINVIEW Library

The MAINVIEW library is organized into these three categories:

- Installer documentation
- Administrator documentation
- User documentation

**Note:** RESOLVE SRM is not part of the MAINVIEW family of products.

Each book within these categories contains information about specific types of tasks. Figure 1 shows how each book relates to the other books in the MAINVIEW library.

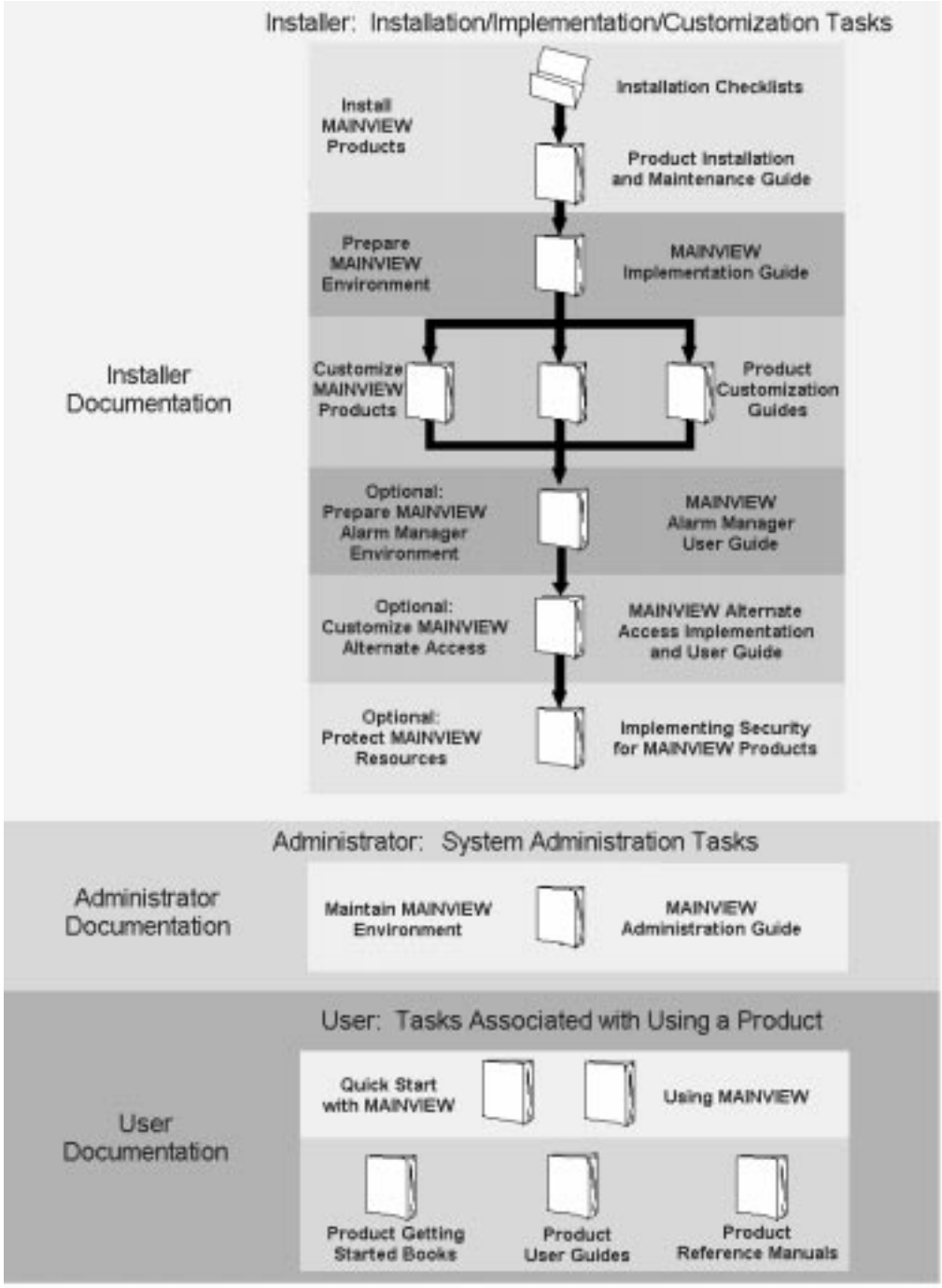


Figure 1. Organization of MAINVIEW Documentation

## Product Release Changes

This book includes installation information for MAINVIEW for WebSphere version 1.1.00.

# Chapter 1. Product Distribution Methods

BMC Software uses either an AIM- or SMP/E-formatted tape to deliver products and product maintenance to customers. This chapter defines these product and maintenance distribution methods and provides product installation options to help guide both new and existing customers through the BMC Software installation process. The sections in this chapter discuss the following topics:


- "Automatic Installation Method (AIM)"
- "System Modification Program Extended (SMP/E)"
- "Product Installation Considerations" on page 2
- "Product Maintenance Tapes" on page 4
- "Terminology and Naming Conventions" on page 6


## Automatic Installation Method (AIM)

AIM is a technique developed to install any combination of products and prepare them for maintenance in significantly less time than standard SMP/E installation and maintenance techniques. A system programmer who installs products using AIM does not need SMP/E experience.

Chapter 3, "Creating Product Libraries with AIM" on page 37 describes how to use AIM to install products.

## System Modification Program Extended (SMP/E)

System Modification Program Extended (SMP/E) is another product distribution and maintenance method that BMC Software supports to comply with customer requirements. SMP/E is an IBM software packaging technique that is used to install and service any software that is packaged as a system modification or SYSMOD. It requires SMP/E skills and takes more time and effort than an AIM installation. CPU processing time and resource requirements to install a product with SMP/E are extensive.

The SMP/E product tape contains MCS (modification control statements) and RELFILEs (relative files) for SMP/E product installation and maintenance, as shown in Appendix A, "SMP/E Tape Format" on page 85. For information on how to load the MCS and RELFILEs to DASD and how to use them, see Chapter 4, "Creating Product Libraries with SMP/E" on page 43.

## Product Installation Considerations

This section discusses options for the installation and servicing of BMC Software products. It helps you determine which product distribution method ( AIM or SMP/E) is appropriate for your site's installation and maintenance goals.

The most desirable method should suit your product configuration needs while requiring the least amount of time and effort to install your products. To help you choose the best method, you should determine

- The existing BMC Software products installed at your site.
- Which BMC Software products you plan to trial or add to your installation.
- The maintenance level of BMC Software products at your site.
- The time and effort required for product customization.
- The installer's knowledge of SMP/E procedures and terminology.

**Note:** Any existing products that are replaced must be recustomized; see Chapter 5, "Customizing the Installed Products" on page 67.

## Installing All New BMC Software Products

If you are a new customer installing all new products for the first time, you can

- Order an AIM tape containing any combination of products

  Product installation, described in Chapter 3, "Creating Product Libraries with AIM" on page 37, is much faster than with standard SMP/E procedures. All products on the tape are at current maintenance levels.

- Order SMP/E tapes for each product you are installing

  Products are installed using standard SMP/E procedures, as described in Chapter 4, "Creating Product Libraries with SMP/E" on page 43. A cumulative maintenance tape is shipped with the SMP/E product tape(s).

## Installing Trial Products with Existing BMC Software Products

If you have existing products and are planning to add one or more new BMC Software products, you can

- Order an AIM tape containing the new product(s) for trial, install the products as described in Chapter 3, “Creating Product Libraries with AIM” on page 37, and run them with existing products on the same CPU.

  **Note:** AIM-formatted tapes cannot be installed into an existing SMP/E environment. The AIM installation process always creates new global, target and distribution zones, and one set of target and distribution libraries containing the product(s) being installed.

  All BMC Software products must reside in the same SMP/E data sets. If you decide to license a product(s) after a trial, you can do either of the following:

  – Order (an) SMP/E product tape(s) containing the new product(s) and install the product(s) into your existing SMP/E data sets using the procedure described in Chapter 4, “Creating Product Libraries with SMP/E” on page 43.

    * Only new products must be customized.

      However, existing products may need to be recustomized. To see if an existing product needs to be recustomized, go the AutoCust CLIST, select the Maintenance option, and run it. This will show you if any component needs to be recustomized.

  – Order an AIM product tape containing your existing products and new products.

    * The amount of time required to install the product(s) is less using the AIM installation procedure than it is using the SMP/E procedure.

    * All products are at current maintenance levels.

    * All products, new and existing, must be recustomized.

- Order (an) SMP/E product tape(s) containing the new product(s) and install the product(s) in separate SMP/E data sets using the procedures described in Chapter 4, “Creating Product Libraries with SMP/E” on page 43, and run new and existing products concurrently on the same CPU.

  If you decide to license the new product(s) after the trial, you can use the same SMP/E product tapes to install the product(s) into SMP/E data sets containing existing products.

## Applying Maintenance to Existing Products

If you have existing BMC Software products and want to upgrade to the current maintenance levels, you can do either of the following:

- Order an AIM product tape containing any combination of products to replace your existing system.
  - All products on the tape are at current maintenance levels.
  - Product installation (described in Chapter 3, “Creating Product Libraries with AIM” on page 37) is much faster than with standard SMP/E procedures.
  - All existing products must be recustomized.
- Apply maintenance using BBPUT tapes, as described in Chapter 7, “Applying SMP/E Maintenance” on page 77.

  If the number of products to be serviced is large, maintenance should be applied using the standard BBPUT maintenance tapes and SMP/E procedures. The effort required to recustomize the products is normally greater than the effort to apply SMP/E-formatted maintenance.

## Product Maintenance Tapes

BMC Software products installed with either AIM or SMP/E are updated with BMC Software maintenance tapes. These maintenance tapes contain enhancements or APARs (authorized problem analysis reports) and PTFs (program temporary fixes). APARs and PTFs are written to repair a product defect or add an enhancement.

There are three types of BMC Software maintenance tapes: BBCAND, BBPUT, and BBCUM. The different maintenance tapes are discussed the sections below.

## BBCAND Tape

A BBCAND tape is a maintenance tape that contains candidate PTFs, APARs, and HOLD data (see Appendix D, “Exception System Modifications (SYSMODs)” on page 117). PTFs and APARs are distributed on a candidate tape for customer verification. These PTFs and APARs are to be tested in the customer environment to verify that they perform as designed. The BBCAND tape is updated weekly.

## BBPUT Tape

A BBPUT tape is a program update tape. A BBPUT maintenance tape contains verified PTFs, APARs, and HOLD data (see Appendix D, “Exception System Modifications (SYSMODs)” on page 117). BMC Software customers have tested these PTFs and APARs and verified that they performed as designed. BMC Software performs updates to all mainframe deliverables on a monthly basis.

In the past, BMC Software did a mass shipment of the BBPUT tape to customers. Now, customers may decide if and when they want automatic shipment of the monthly BBPUT tape. Call BMC Software Customer Support, or send an e-mail to sjsupport@bmc.com, to request a form that allows you to indicate the intervals at which you would like deliverables.

The monthly BBPUT tape is cumulative in maintenance to six months. This means there will be two BBPUT numbers per year, with a letter extension for each release. Table 1 below describes this process.

Table 1. Example BBPUT Tape Release

| BBPUT Tape Number | Contains Maintenance Updates for Month(s) | Available for Ordering |
|---|---|---|
| 9901A | Jan 99 - Feb 99 | February |
| 9901B | Jan 99 - March 99 | March |
| 9901C | Jan 99 - April 99 | April |
| 9901D | Jan 99 - May 99 | May |
| 9901E | Jan 00 - June 99 | June |
| 9902A | Jul 99 | July |
| 9902B | Jul 99 - Aug 99 | August |
| 9902C | Jul 99 - Sep 99 | September |
| 9902D | Jul 99 - Oct 99 | October |
| 9902E | Jul 99 - Nov 99 | November |
| 9902F | Jul 99 - Dec 99 | December |

## BBCUM Tape

A BBCUM tape is a cumulative maintenance tape. It contains all PTFs, APARs, and HOLDDATA (see Appendix D, “Exception System Modifications (SYSMODs)” on page 117) that are verified by customers to perform as designed and are required to install any BMC Software SMP/E-formatted product.

Cumulative maintenance tapes are shipped, and should be used only with product tapes containing function system modifications (SYSMODs) (see “System Modification Program Extended (SMP/E)” on page 1). Function SYSMODs on the product tape are updated periodically to incorporate PTFs and APARs. PTFs and APARs incorporated into function SYSMODs are not distributed on the cumulative maintenance tape.

The cumulative maintenance tape may be updated when

- A new BBPUT tape is created

  All PTFs and APARs on the BBPUT tape are added to the cumulative maintenance tape. However, if an APAR is incorporated into a maintenance update concurrently with the creation of a BBPUT tape, that APAR is not added to the cumulative maintenance tape.

- A new product release is made generally available (GA)

  All PTFs and APARs needed to create the GA level of the product are added to the cumulative maintenance tape. However, if an APAR is incorporated into a maintenance update concurrently with the release of a new product, that APAR is not added to the cumulative maintenance tape.

- A severe product defect requiring an immediate fix is identified

  These types of fixes are called HIPER (High Impact/PERvasive). HIPER PTFs and APARs are added to the cumulative maintenance tape as soon as they are verified by BMC Software customers.

# Terminology and Naming Conventions

Following are descriptions of terms and names BMC Software uses for its product packaging.

## BMC Software Packaging Terminology

**AIM.** The Automatic Installation Method (AIM) installation technique developed by BMC Software Europe that allows any combination of BMC Software, SMP/E-maintainable products to be distributed on a product tape to a customer and installed quickly.

The AIM tape contains SMP/E target libraries, distribution libraries, and all data sets needed for application of SMP/E maintenance.

**APAR.** Authorized Problem Analysis Report. This is a report of a problem caused by a suspected defect in a current unaltered release of a program.

**BBAAA20.** An SMP/E FMID that is distributed with all BMC Software products. It contains some AutoCustomization CLISTs and all the jobstreams with which SMP/E systems for BMC Software customers are created and maintained.

**EREP.** IBM Environmental Recording and Edit Program utility.

**FMID.** Logical groupings of elements within BMC Software SMP/E-packaged products. Also known as an SMP/E function SYSMOD.

**IEBCOPY.** The principal delivery mechanism used in SMP modification control statements (MCS) to construct SYSMODs.

**instream procedure.** A set of job control statements placed in the input stream that can be used any number of times during a job by naming the procedure in an EXEC statement.

**PTF.** Program Temporary Fix. A temporary solution or workaround to a problem resulting from a defect in a current unaltered release of a program.

**PRQ.** Prerequisite component. A component that contains common code used by multiple BMC Software products. PRQs may be shipped or released independently of the products that use them.

**relative file format.** A SYSMOD packaging method where elements and JCLIN data are in separate relative files from the MCSs. When SYSMODs are packaged in this format, there is a file of MCSs for one or more SYSMODs, and one or more relative files containing unloaded source-code data sets and unloaded link-edited data sets containing executable modules. The relative files can be either unloaded files in IEBCOPY format, or they can be partitioned data sets. Relative file format is the typical method used for packaging function SYSMODs.

**RELFILEs.** Relative files. Unloaded files containing modification text and JCL input data associated with a SYSMOD. These files are used to package SYSMODs in relative file format.

**SMP/E.** IBM System Modification Program/Extended.

**SYSMOD.** (system modification) The input data to SMP/E that defines the introduction, replacement, or update of elements in the operating system and associated distribution libraries under the control of SMP/E. A SYSMOD is defined by a set of MCS.

**SYSMOD-ID.** A name that SMP/E associates with a system modification. It is specified as the value of the ++APAR, ++FUNCTION, ++PTF, or ++USERMOD operand.

**tape.** A generic term used in this book to represent one of three types of distribution media:

- 9-track, 6250 BPI magnetic tape
- 3480 cartridges
- 3490 cartridges

## BMC Software Product Packaging Naming Conventions

The BMC Software naming convention classifies and relates various product components while allowing for future expansion. The convention reflects product line organization and classifies machine-readable data used during installation as SMP/E setup, product installation, or product-specific information. Sample SMP/E installation jobs are provided in the BBAAA20 function FMID. This function is common to all the BMC Software products. The sample jobs are classified as BBAAA20 sample installation jobs.

## BBAAA20 Sample Installation Jobs

BBAAA20 provides sample jobs that are unloaded to DASD as members of a partitioned data set. The member names are formed as

*ccpxxxxx*

where

*cc* Indicates when the sample job is used:

- $$ SMP/E setup
- #$ SMP/E product installation jobs and instructions
- #@ Product-related jobs and SMP/E control statements
- @@ Product-specific installation material
- @$ Product-specific indices
- @# Product-specific checklists

*p* Indicates the product line:

- A Required libraries for all products
- B Required BBX libraries if BBB-prefixed functions are being received
- C CICS performance management products
- D DB2 performance management products
- F MODEL 300
- I IMS and DBCTL performance management products

  **Note:** Some of the I members are shared in common with two other BBI-2 products: MAINVIEW for CICS and MAINVIEW for DB2.
- L Common product functions
- M MVS performance management and MAINVIEW AutoOPERATOR products
- O MAINVIEW AutoOPERATOR
- Y Products that use BMC Software Intercommunications Version 3

*xxxxx* Indicates the remainder of the member name, depending on its function.

## System Modifications (SYSMODs)

BMC Software classifies SYSMODs by product line and type. The name is seven characters in length and is formed as

*Btpffvv*

or

*Btpnnnn*

where

*B* Represents BMC Software.

*t* Indicates the SYSMOD type:

B Is a function SYSMOD.

A Is an APAR SYSMOD.

P Is a PTF SYSMOD.

**Note:** The letters C, D, E, and F are reserved for future APAR SYSMOD use. The letters Q and R are reserved for future PTF SYSMOD use.

*p* Indicates the product line.

*ff* Is a two-character function identifier used only for a function SYSMOD.

*vv* Is a two-digit version number used only for a function SYSMOD.

*nnnn* Is an APAR or PTF number within the product line.

The following examples show the three different types of SYSMODs with the appropriate replacement variables in the second character position.

**B** (in the second character position) indicates function SYSMODs.
**Examples:** B**B**BBX16 and B**B**IBA26

**A** indicates APAR SYSMODs.
**Examples:** BA**A**B0001 and BA**A**I0002

**P** indicates PTF SYSMODs.
**Examples:** B**P**B0123 and B**P**I0456

# Chapter 2. Installation Prerequisites

Before you install your AIM- or SMP/E-formatted BMC Software product(s) and make them operational, you need to consider the following prerequisites:

- The operating system software requirements for your BMC Software product(s), described in "Software Requirements" on page 12
- The amount of DASD storage required to install your product(s) using AIM or SMP/E, described in "Storage Requirements" on page 17
- The amount of virtual storage required to operate your product(s), described in "Virtual Storage" on page 25
- Target system changes that you may need to make before installation and customization, described in "System Requirements" on page 35

These prerequisites are defined in the sections that follow.

## Software Requirements

Table 2 on page 12 describes operating system software needed for the installation and execution of BMC Software products. Additional requirements for product customization are described in the books shipped with your product(s).

Table 2. Software Requirements

| Product | Software required |
|---|---|
| CMF MONITOR 5.3.01 and 5.3.02 | OS/390 1.2 or higher<br>ISPF/PDF 3.5 or higher |
| CMF MONITOR 5.2.03 | MVS/ESA 5.1 or higher<br>ISPF/PDF 3.5 or higher |
| *Command* MQ Automation S/390 5.1.00 and 5.1.01<br>(formerly MAINVIEW AutoOPERATOR for MQSeries) | MQSeries for MVS/ESA 1.1.4 or higher<br>MVS/ESA 5.1 or higher, or OS/390 1.1 or higher<br>TSO/E Release 2.5 or higher |
| *Command* MQ for S/390 2.0 | MQSeries for MVS 1.1.3, 1.1.4, or 1.2.0<br>Level-2 compliant distributed MQSeries<br>MVS/ESA 4.2.2 or higher<br>ISPF/PDF 2.2 or higher<br>TCP/IP 3.2 or higher for execution of *Command* MQ D/S agent |
| *Command* MQ for S/390 3.0 | MQSeries for MVS 1.1.3, 1.1.4, or 1.2.0<br>MQSeries for OS/390 2.1.0<br>Level-2 compliant distributed MQSeries<br>MVS/ESA 4.2.2 or higher<br>ISPF/PDF 2.2 or higher<br>TCP/IP 3.2 or higher for execution of *Command* MQ D/S agent |
| DASD ADVISOR 2.4.01 | MVS/ESA 5.1 or higher<br>ISPF/PDF 2.0 or higher<br>GDDM and PGF (1.4 or higher for high-resolution graphics) |
| DASD ADVISOR 2.4.02 | OS/390 1.2 or higher<br>ISPF/PDF 3.5 or higher<br>GDDM and PGF (1.4 or higher for high-resolution graphics) |
| InTune 2.1.00 | MVS/ESA 4.2.2 or higher (5.1.0 or higher for sysplex)<br>TSO/E 2.3.1 or higher<br>ISPF/PDF 3.5.0 or higher |
| InTune 2.2.00 | MVS/ESA 5.1 or higher, or OS/390, all versions<br>TSO/E 2.3.1 or higher<br>ISPF/PDF 4.1 or higher |

Table 2. Software Requirements (Continued)

| Product | Software required |
|---|---|
| MAINVIEW Alarm Manager 1.1.00 | At least one of the following products is required:<br>CMF MONITOR Online<br>MAINVIEW for IMS<br>MAINVIEW for CICS<br>MAINVIEW for DB2<br>MAINVIEW for MQSeries<br>MAINVIEW for MVS<br>MAINVIEW for OS/390<br>MAINVIEW for UNIX System Services<br>MAINVIEW for VTAM<br>MAINVIEW VistaPoint |
| MAINVIEW Alternate Access 3.1.00 | MVS/ESA 5.1 or higher<br>ISPF 2.1 or higher<br>TSO/E 2.1 or higher<br>VTAM 2.2 or higher (for VTAM session access only) |
| MAINVIEW AutoOPERATOR for CICS 5.1.00 and 5.1.01 | CICS/MVS 4.1.0, or CICS Transaction Server 1.1 or higher<br>MVS/ESA 5.1 or higher, or OS/390 1.1 or higher<br>TSO/E Release 2.5 or higher |
| MAINVIEW AutoOPERATOR for IMS 5.1.00 and 5.1.01 | IMS/ESA 5.1 or higher<br>MVS/ESA 5.1 or higher, or OS/390 1.1 or higher<br>TSO/E Release 2.5 or higher |
| MAINVIEW AutoOPERATOR for MVS 5.1.00 and 5.1.01 | VTAM 3.4.2, 4.3 or higher<br>MVS/ESA 5.1 or higher, or OS/390 1.1 or higher<br>TSO/E Release 2.5 or higher |
| MAINVIEW AutoOPERATOR Access for NV 5.1.00 and 5.1.01 | NetView 3.1 or 3.2, or TME 10 NetView for OS/390 1.1 or higher<br>MVS/ESA 5.1 or higher, or OS/390 1.1 or higher<br>TSO/E Release 2.5 or higher |
| MAINVIEW AutoOPERATOR execution in ISPF window | ISPF/PDF Release 4.2.0 or higher |
| MAINVIEW AutoOPERATOR Open Systems Procedural Interface (OSPI) | VTAM 3.4.2, 4.3 or higher |
| MAINVIEW AutoOPERATOR TCP Communications | TCP/IP 3.1 or higher |

Table 2. Software Requirements (Continued)

| Product | Software required |
|---|---|
| MAINVIEW Explorer 1.3.00 | At least one of the following products is required:<br>CMF MONITOR Online<br>MAINVIEW for CICS<br>MAINVIEW for DB2<br>MAINVIEW for DBCTL<br>MAINVIEW for IMS<br>MAINVIEW for IMSPlex System Manager<br>MAINVIEW for MQSeries<br>MAINVIEW for MVS<br>MAINVIEW for OS/390<br>MAINVIEW for UNIX System Services<br>MAINVIEW for VTAM<br>MAINVIEW VistaPoint |
| MAINVIEW FOCAL POINT 1.2.00<br><br>MAINVIEW FOCAL POINT execution in an ISPF window | ISPF/PDF Release 2.2 or higher<br>MVS/XA (SP 2 or higher) or<br>MVS/ESA (SP 3 or SP 4 or higher) |
| MAINVIEW for CICS 5.3.01 | At least one of the following products is required:<br>CICS/MVS 2.1.2 or<br>CICS/ESA 3.3.0, 4.1.0, or<br>CICS Transaction Server 1.1, 1.2, 1.3<br>MVS/ESA (SP 4.2.2 or higher) |
| MAINVIEW for CICS 5.4.00 | At least one of the following products is required:<br>CICS/ESA 4.1.0, or<br>CICS Transaction Server 1.1, 1.2, 1.3<br>MVS/ESA (SP 4.2.2 or higher) |
| MAINVIEW for DB2 5.1.00 | At least one of the following products is required:<br>DB2 3.1, 4.1, or 5.1<br>MVS/ESA (SP 4 or SP 5) or<br>OS/390 1.1 or higher |
| MAINVIEW for DB2 6.1.00 | At least one of the following products is required:<br>DB2 3.1, 4.1, 5.1, or 6.1<br>MVS/ESA (SP 4 or SP 5) or<br>OS/390 1.1 or higher |
| MAINVIEW for DBCTL 3.2.00 | IMS/ESA 4.1, 5.1, or 6.1<br>CICS/ESA 3.1, 3.2.1, 3.3, or 4.1 or<br>CICS Transaction Server 1.1, 1.2, or 1.3<br>IRLM 1.5 or 2.1<br>MVS/ESA (SP 4 or SP 5) or OS/390 (R1-R3) |
| MAINVIEW for IMSPlex System Manager 3.2.00 | IMS/ESA 4.1, 5.1, or 6.1<br>CICS/ESA 3.1, 3.2.1, 3.3, or 4.1 or<br>CICS Transaction Server 1.1, 1.2, or 1.3<br>DB2 3.1, 4.1, 5.1, or 6.1<br>IRLM 1.5 or 2.1<br>MVS/ESA (SP 4 or SP 5) or OS/390 (R1-R3) |

Table 2. Software Requirements (Continued)

| Product | Software required |
|---|---|
| MAINVIEW for IMS 3.2.00<br>Offline Products | MVS/ESA (SP 4 or SP 5) or OS/390 (R1-R3)<br>IMS/ESA 4.1, 5.1, or 6.1 |
| MAINVIEW for IMS 3.2.00<br>Online Products | MVS/ESA (SP 4 or SP 5) or OS/390 (R1-R3)<br>IMS/ESA 4.1, 5.1, or 6.1<br>CICS/ESA 3.1, 3.2.1, 3.3, or 4.1 or<br>CICS Transaction Server 1.1, 1.2, or 1.3<br>DB2 3.1, 4.1, 5.1, or 6.1<br>IRLM 1.5 or 2.1 |
| MAINVIEW for IP 1.1.00 | OS/390 2.5 or higher<br>TCP/IP |
| MAINVIEW for MQSeries 1.2.00 | MQSeries for MVS 1.1.3, 1.1.4, or 1.2.0<br>Level 2-compliant distributed MQSeries<br>MVS/ESA 4.2.2 or higher<br>ISPF/PDF 2.2 or higher |
| MAINVIEW for MQSeries 4.0.0 | MQSeries for MVS 1.1.4 or 1.2.0<br>MQSeries for OS/390 2.1.0 or 5.2.0<br>Level 2-compliant distributed MQSeries<br>MVS/ESA 4.2.2 or higher<br>ISPF/PDF 2.2 or higher |
| MAINVIEW for MVS 2.4.02 | MVS/ESA 5.1 or higher<br>ISPF/PDF 3.5 or higher |
| MAINVIEW for OS/390 2.5.01 and 2.5.02 | OS/390 1.2 or higher<br>ISPF/PDF 3.5 or higher |
| MAINVIEW SYSPROG Services 3.2.00 | OS/390 1.2 or higher<br>ISPF/PDF 3.5 or higher |
| MAINVIEW for UNIX System Services (USS) 1.1.00 | OS/390 1.3 or higher<br>ISPF/PDF 3.5 or higher |
| MAINVIEW VistaPoint 1.1.02 and 1.1.03 | MVS/ESA (SP4 or higher)<br>ISPF/PDF 2.2 or higher |
| MAINVIEW for VTAM 1.1.00 | ULTRAOPT 4.1.00 or higher<br>MVS 4.3 through OS/390 2.9 or higher<br>VTAM 4.3 or higher |
| MODEL 300 3.2.01 | MVS/ESA 4.2.2 or higher<br>ISPF/PDF 2.0 or higher<br>GDDM and PGF (1.4 or higher for high-resolution graphics) |
| MODEL 300 3.2.02 | OS/390 1.2 or higher<br>ISPF/PDF 3.5 or higher<br>GDDM and PGF (1.4 or higher for high-resolution graphics) |
| RESOLVE SRM 5.01 | MVS/ESA 4.3 or higher<br>DFP 3.3 or higher<br>TSO/E 2.3 or higher<br>ISPF/PDF 3.5 or higher |

Table 2. Software Requirements (Continued)

| Product | Software required |
|---|---|
| RxD2 2.1.00<br><br>RxD2/FlexTools<br>RxD2/LINK | At least one release of DB2 3.1, 4.1, or 5.1<br>MVS/ESA (SP 3, SP 4, or SP 5) or<br>OS/390 1.1 or higher<br><br>TSO/E Version 2.1 or higher<br>ISPF/PDF 3.5 or higher |
| StorageGUARD 3.1.00 | TSO/E 2.1 or higher<br>ISPF/PDF 3.5 or higher |
| TapeSHARE for MAINVIEW AutoOPERATOR 5.1.00 | MAINVIEW AutoOPERATOR for MVS 5.1.00 |
| TapeSHARE for MAINVIEW AutoOPERATOR 5.1.01 | MAINVIEW AutoOPERATOR for MVS 5.1.01 |

## Storage Requirements

This section describes how to define the DASD (direct access storage device) storage needed to install BMC Software products. DASD storage requirements are the same for both SMP/E- and AIM-packaged products.

## DASD Storage for AIM-Installed Products

The total DASD space needed to install the requested products is given in the installation notes included in your product package.

## DASD Storage for SMP/E-Packaged Products

The target and distribution library DASD storage requirements for BMC Software products are listed in Table 3 on page 18. To determine the amount of DASD space needed, use the following formulas.

### Primary Allocation Formula

The formula to determine the primary allocation of storage is described in Step 1 through 5 below:

1. Use Table 3 on page 18 to find the DASD storage estimates for each product being installed.

   **Note:** If you are installing into run time libraries alone, use the DASD storage estimates in Table 3 for the target libraries.

2. Total these estimates.

   **Note:** If you are installing only one product or have no common code between products, skip Step 3.

3. Establish whether common code exists between products by referring to Table 4 on page 21. If common code does exist:

   a. Calculate the total excess common code DASD storage estimate. Go to "DASD Storage Adjustments for Common Code" on page 21.

   b. Subtract the total excess common code DASD storage estimate from the total required DASD storage estimate. Go to "Calculating Excess Common Code DASD Storage" on page 23.

4. Multiply the total by

   – 150% for one product

   – 140% for two products

   – 130% for three products

   – 125% for four or more products

5. Add 40 cylinders to factor in the space requirements for the SMP/E log and VSAM CSI data sets.

   The final computation is the initial estimate for the complete SMP/E or AIM system.

## Secondary Allocation Formula

The formula to determine the secondary allocation of storage for target libraries and distribution libraries is 25% of the primary allocation.

Storage is given in 3390 units in the following table. To convert 3390 to 3380, multiply by 1.22.

Table 3. DASD Storage Requirements

| **Product** | **Libraries** | **Required DASD storage** | **Total required DASD storage** |
|---|---|---|---|
| CMF MONITOR 5.2.03 | Target Libraries | 137 cylinders | 262 cylinders |
| | Distribution Libraries | 125 cylinders | |
| CMF MONITOR 5.3.01 and 5.3.02 | Target Libraries | 185 cylinders | 335 cylinders |
| | Distribution Libraries | 150 cylinders | |
| *Command* MQ for S/390 2.0 | Target Libraries | 105 cylinders | 198 cylinders |
| | Distribution Libraries | 93 cylinders | |
| *Command* MQ for S/390 3.0 | Target Libraries | 105 cylinders | 198 cylinders |
| | Distribution Libraries | 93 cylinders | |
| DASD ADVISOR 2.4.01 | Target Libraries | 100 cylinders | 205 cylinders |
| | Distribution Libraries | 105 cylinders | |
| DASD ADVISOR 2.4.02 | Target Libraries | 100 cylinders | 205 cylinders |
| | Distribution Libraries | 105 cylinders | |
| InTune 2.1.00 | Target Libraries | 25 cylinders | 55 cylinders |
| | Distribution Libraries | 30 cylinders | |
| InTune 2.2.00 | Target Libraries | 30 cylinders | 63 cylinders |
| | Distribution Libraries | 33 cylinders | |
| MAINVIEW AutoOPERATOR 5.1.00 | Target Libraries | 80 cylinders | 175 cylinders |
| | Distribution Libraries | 95 cylinders | |
| MAINVIEW Explorer 1.3.00 | Target Libraries | 15 cylinders | 35 cylinders |
| | Distribution Libraries | 20 cylinders | |
| MAINVIEW FOCAL POINT 1.2.00 | Target Libraries | 26 cylinders | 59 cylinders |
| | Distribution Libraries | 33 cylinders | |
| MAINVIEW for CICS 5.3.01 and 5.4.00 | Target Libraries | 175 cylinders | 335 cylinders |
| | Distribution Libraries | 160 cylinders | |

Table 3. DASD Storage Requirements

| Product | Libraries | Required DASD storage | Total required DASD storage |
|---|---|---|---|
| MAINVIEW for DB2 5.1.00 and 6.1.00 | Target Libraries | 200 cylinders | 375 cylinders |
| | Distribution Libraries | 175 cylinders | |
| MAINVIEW for DBCTL 3.2.00 | Target Libraries | 45 cylinders | 100 cylinders |
| | Distribution Libraries | 55 cylinders | |
| MAINVIEW for IMSPlex System Manager 3.2.00 | Target Libraries | 110 cylinders | 200 cylinders |
| | Distribution Libraries | 90 cylinders | |
| MAINVIEW for IMS 3.2.00<br>Offline Products:<br>Extensions for DB2<br>IMS PERFORMANCE REPORTER | Target Libraries | 10 cylinders | 20 cylinders |
| | Distribution Libraries | 10 cylinders | |
| MAINVIEW for IMS 3.2.00<br>Offline Products:<br>Extensions for DB2<br>IMS TRANSACTION ACCOUNTANT | Target Libraries | 10 cylinders | 20 cylinders |
| | Distribution Libraries | 10 cylinders | |
| MAINVIEW for IMS 3.2.00<br>Offline Products:<br>IMS PERFORMANCE REPORTER | Target Libraries | 20 cylinders | 40 cylinders |
| | Distribution Libraries | 20 cylinders | |
| MAINVIEW for IMS 3.2.00<br>Offline Products:<br>IMS TRANSACTION ACCOUNTANT | Target Libraries | 20 cylinders | 40 cylinders |
| | Distribution Libraries | 20 cylinders | |
| MAINVIEW for IMS 3.2.00<br>Online Products:<br>Extensions for DB2<br>Extensions Resource Analyzer<br>IMS Resource Monitor<br>IMS Workload Analyzer<br>IMS Workload Monitor | Target Libraries | 45 cylinders | 100 cylinders |
| | Distribution Libraries | 55 cylinders | |
| MAINVIEW for IP 1.1.00 | Target Libraries | 100 cylinders | 180 cylinders |
| | Distribution Libraries | 80 cylinders | |
| MAINVIEW for MQSeries 1.2.00 | Target Libraries | 105 cylinders | 198 cylinders |
| | Distribution Libraries | 93 cylinders | |

Table 3. DASD Storage Requirements

| Product | Libraries | Required DASD storage | Total required DASD storage |
|---|---|---|---|
| MAINVIEW for MQSeries 4.0.0 | Target Libraries | 110 cylinders | 205 cylinders |
| | Distribution Libraries | 95 cylinders | |
| MAINVIEW for MVS 2.4.02 | Target Libraries | 152 cylinders | 291 cylinders |
| | Distribution Libraries | 139 cylinders | |
| MAINVIEW for OS/390 2.5.01 and 2.5.02 | Target Libraries | 200 cylinders | 365 cylinders |
| | Distribution Libraries | 165 cylinders | |
| MAINVIEW for UNIX System Services 1.1.00 | Target Libraries | 195 cylinders | 350 cylinders |
| | Distribution Libraries | 155 cylinders | |
| MAINVIEW for VTAM 1.1.00 (prerequisite product, ULTRAOPT 4.1.00, requires 35 cylinders for Distribution Libraries) | Target Libraries | 95 cylinders | 170 cylinders |
| | Distribution Libraries | 75 cylinders | |
| MAINVIEW for WebSphere 1.1.00 | Target Libraries | 105 cylinders | 190 cylinders |
| | Distribution Libraries | 85 cylinders | |
| MAINVIEW SYSPROG Services 3.2.00 | Target Libraries | 170 cylinders | 305 cylinders |
| | Distribution Libraries | 135 cylinders | |
| MAINVIEW VistaPoint 1.1.03 | Target Libraries | 100 cylinders | 187 cylinders |
| | Distribution Libraries | 80 cylinders | |
| MODEL 300 3.2.01 | Target Libraries | 101 cylinders | 204 cylinders |
| | Distribution Libraries | 103 cylinders | |
| MODEL 300 3.2.02 | Target Libraries | 101 cylinders | 204 cylinders |
| | Distribution Libraries | 103 cylinders | |
| RESOLVE SRM 5.01 | Target Libraries | 65 cylinders | 135 cylinders |
| | Distribution Libraries | 70 cylinders | |
| RxD2/Flex Tools 2.1.00 | Target Libraries | 15 cylinders | 30 cylinders |
| | Distribution Libraries | 15 cylinders | |
| RxD2/LINK 2.1.00 | Target Libraries | 10 cylinders | 20 cylinders |
| | Distribution Libraries | 10 cylinders | |
| StorageGUARD 3.1.00 | Target Libraries | 20 cylinders | 55 cylinders |
| | Distribution Libraries | 35 cylinders | |

## DASD Storage Adjustments for Common Code

If you are installing multiple BMC Software products, or have other BMC Software products currently installed on your system, common code may exist between them. During the installation of your products, only one copy of the common code is installed on a single system. The total DASD storage estimates for each product (see Table 3 on page 18) includes the space estimates for excess instances of common code. In order to accurately estimate the amount of DASD storage needed to install your BMC Software products, excess common code DASD estimates must be calculated and ***subtracted*** from the total DASD storage estimate.

Table 4 lists the common code for each product and the amount of DASD storage the common code uses.

Table 4. Products and Common Code Values

| **Common code** | **Products** | **Storage in cylinders** | | |
|---|---|---|---|---|
| | | **Target Library** | **Distribution Library** | **Total common code DASD storage** |
| BMC Software Intercommunications (BBI) 2.6.00 | Command MQ for S/390 3.0<br>Command MQ for S/390 2.0<br>MAINVIEW AutoOPERATOR<br>MAINVIEW FOCAL POINT<br>MAINVIEW for CICS 5.3.01 or higher<br>MAINVIEW for DB2 5.1.0 or below<br>MAINVIEW for DBCTL 2.1.00 or higher<br>MAINVIEW for IMS 3.1.00 or higher<br>MAINVIEW for MQSeries 1.2.0<br>MAINVIEW for MQSeries 4.0.0 | 15 | 20 | 35 |
| BMC Software Intercommunications (BBI) 3.3.00 | CMF MONITOR<br>Command MQ for S/390 2.0 or higher<br>MAINVIEW for CICS 5.3.01 or higher<br>MAINVIEW for DB2 5.1.00 or higher<br>MAINVIEW for IMSPlex System Manager 3.2.00<br>MAINVIEW for IP 1.1.00 or higher<br>MAINVIEW for MQSeries 1.2.0<br>MAINVIEW for MQSeries 4.0.0<br>MAINVIEW for MVS 2.5.02 or higher<br>MAINVIEW for OS/390 2.5.01 or higher<br>MAINVIEW for UNIX System Services 1.1.00 or higher<br>MAINVIEW for VTAM 1.1.00 or higher<br>MAINVIEW for WebSphere 1.1.00 or higher<br>MAINVIEW SYSPROG Services 3.2.00 or higher<br>MAINVIEW VistaPoint | 70 | 55 | 125 |

Table 4. Products and Common Code Values (Continued)

| Common code | Products | Storage in cylinders | | |
|---|---|---|---|---|
| | | Target Library | Distribution Library | Total common code DASD storage |
| MAINVIEW Alarm Manager | Command MQ for S/390 2.0 or higher<br>MAINVIEW for CICS 5.3.01 or higher<br>MAINVIEW for DB2 5.1.00 or higher<br>MAINVIEW for DBCTL 2.1.00 or higher<br>MAINVIEW for IMS 3.1.00 or higher<br>MAINVIEW for IMSPlex System Manager 3.1.00 or higher<br>MAINVIEW for MQSeries 1.2.0<br>MAINVIEW for MQSeries 4.0.0<br>MAINVIEW for MVS 2.4.02<br>MAINVIEW for OS/390 2.5.01 or higher<br>MAINVIEW SYSPROG Services 3.2.00 or higher<br>MAINVIEW for UNIX System Services (USS) 1.1.00 or higher<br>MAINVIEW VistaPoint | 12 | 11 | 23 |
| MAINVIEW Alternate Access | CMF MONITOR<br>Command MQ for S/390 2.0 or higher<br>DASD ADVISOR<br>FOCAL POINT<br>InTune 1.2.00 or higher<br>MAINVIEW AutoOPERATOR<br>MAINVIEW for CICS 5.3.01 or higher<br>MAINVIEW for DB2 5.1.00 or higher<br>MAINVIEW for DBCTL 2.1.00 or higher<br>MAINVIEW for IMS 3.1.00 or higher<br>MAINVIEW for IMSPlex System Manager 3.1.00<br>MAINVIEW for MQSeries 1.2.0<br>MAINVIEW for MQSeries 4.0.0<br>MAINVIEW for MVS 2.4.02<br>MAINVIEW for OS/390 2.5.01<br>MAINVIEW SYSPROG Services 3.2.00 or higher<br>MAINVIEW for UNIX System Services (USS) 1.1.00 or higher<br>MAINVIEW VistaPoint | 2 | 3 | 5 |
| CMF Analyzer PRQ 5.2.01 and below | CMF MONITOR 5.2.03<br>DASD ADVISOR 2.4.01<br>MODEL 300 3.2.01 | 10 | 10 | 20 |
| CMF Analyzer PRQ 5.3.01 | CMF MONITOR 5.3.01 and 5.3.02<br>DASD ADVISOR 2.4.02<br>MODEL 300 3.2.02 | 10 | 10 | 20 |

Table 4. Products and Common Code Values (Continued)

| Common code | Products | Storage in cylinders | | |
|---|---|---|---|---|
| | | Target Library | Distribution Library | Total common code DASD storage |
| CMF Extractor PRQ 5.2.04 | CMF MONITOR 5.2.03<br>DASD ADVISOR 2.4.01<br>MAINVIEW for MVS 2.4.02<br>MODEL 300 3.2.01 | 55 | 57 | 112 |
| CMF Extractor PRQ 5.3.01 | CMF MONITOR 5.3.01 and 5.3.02<br>DASD ADVISOR 2.4.02<br>MAINVIEW for OS/390 2.5.01<br>MODEL 300 3.2.02 | 51 | 55 | 106 |
| OLTP PRQ 1.1.00 | MAINVIEW AutoOPERATOR<br>MAINVIEW for CICS 5.3.01<br>MAINVIEW for IMS 3.1.00 | 5 | 5 | 10 |
| OLTP PRQ 2.1.00 | MAINVIEW AutoOPERATOR<br>MAINVIEW for CICS 5.4.00 or higher<br>MAINVIEW for IMS 3.1.00 or higher | 5 | 5 | 10 |
| @DAM PRQ 4.1.00 | CMF MONITOR 5.3.01<br>CMF MONITOR 5.3.00<br>InTune 2.1.00 and 2.2.00<br>RESOLVE SRM 5.1.00<br>StorageGUARD 3.1.00 | 3 | 3 | 6 |

## Calculating Excess Common Code DASD Storage

To accurately estimate the amount of DASD storage needed to install your BMC Software products, you need to deduct the total excess common code DASD storage from the total DASD storage estimate. To find the estimate, perform the following:

For each common code element listed in Table 4 on page 21:

1. Identify the common code for each product.
2. Count the number of products you are installing within each common code category.

   For example, MAINVIEW AutoOPERATOR, CMF MONITOR 5.3.01 and MAINVIEW for OS/390 2.5.01 share MAINVIEW Alternate Access common code (see Table 5 on page 24). CMF MONITOR 5.2.01 and MAINVIEW for MVS 2.4.02 share CMF Extractor common code (see Table 6 on page 24).
3. Calculate the excess common code DASD storage subtotal, using the following formula (see Table 5 and Table 6 on page 24):

   $C = (P - 1) * A$

   where:

   C = total excess common code DASD storage subtotal in cylinders

P = the number of products being installed that are listed in the common code category

A = the common code value for one product in cylinders

Table 5. Calculating DASD Storage for MAINVIEW Alternate Access

| Common code | Products | Common code DASD storage for MAINVIEW Alternate Access | Excess common code DASD storage estimate |
|---|---|---|---|
| MAINVIEW Alternate Access | CMF MONITOR 5.3.01 | 5 cylinders (not excess) | |
| | MAINVIEW AutoOPERATOR | 5 cylinders | 5 cylinders |
| | MAINVIEW for OS/390 2.5.01 | 5 cylinders | 5 cylinders |
| **Excess common code DASD storage subtotal (for MAINVIEW Alternate Access)** | | | 10 cylinders |
| **Calculation is (3 - 1) * 5 = 10 cylinders** | | | |

Table 6. Calculating DASD Storage for CMF Extractor

| Common code | Products | Common code DASD storage for CMF Extractor | Excess common code DASD storage estimate |
|---|---|---|---|
| CMF Extractor 5.2.04 | CMF MONITOR 5.2.03 | 112 cylinders (not excess) | |
| | MAINVIEW for MVS 2.4.02 | 112 cylinders | 112 cylinders |
| **Excess common code DASD storage subtotal (for CMF Extractor)** | | | 112 cylinders |
| **Calculation is (2 - 1) * 112 = 112 cylinders** | | | |

4. Add the excess common code subtotals to obtain the total excess common code calculation.

   For example, in Table 5 the excess common code for MAINVIEW Alternate Access is 10 cylinders. In Table 6, the excess common code for CMF Extractor is 112 cylinders. The total excess common code DASD storage is the sum of these or 122 cylinders (10 + 112 = 122).

5. Return to "Primary Allocation Formula" on page 17 and continue with Step 4.

## DASD Storage for AIM-Installed Products

The total DASD space needed to install the requested products is given in the installation notes included in your installation package.

## Virtual Storage

This section describes how to define the virtual storage required to operate BMC Software products. Table 7 provides virtual storage estimates for AIM- or SMP/E-formatted products. Add storage required for installed components only.

Table 7. Virtual Storage Estimates

<table>
<tr><th>Product</th><th>Virtual storage estimates</th></tr>
<tr><td>CMF MONITOR</td><td>10K of CSA for the Extractor<br>110K of ECSA and 200 bytes per sampled device for the Extractor<br><br>Amount of storage specified on CSA = parameter of the REPORT control statement, which varies depending upon<br>• Number and type of samplers requested<br>• Size of the operating system with respect to its resources; for example, the number of address spaces, channel paths, and page frames<br><br>For Version 4.3.1 or higher, add the following to the Extractor values listed above:<br><table><tr><th></th><th>CSA</th><th>ECSA</th></tr><tr><td>CAS</td><td>16K</td><td>2770K</td></tr><tr><td>PAS</td><td>40K+*</td><td>1500K+*</td></tr><tr><td>BBX</td><td>20K</td><td>200K+**</td></tr><tr><td>UAS</td><td>0K</td><td>***</td></tr></table>* Add Extractor values.<br>** Plus 32 bytes multiplied by the number of UCBs.<br>*** If you are using MAINVIEW Alternate Access instead of a TSO session to access CMF MONITOR, add the values listed for MAINVIEW Alternate Access instead of the values for the TSO session.<br><br>Private storage is obtained from high-end private subpools for CAS, PAS, and UAS; therefore, it is not restricted by the region size of the address space.</td></tr>
<tr><td>Command for MQ S/390 2.0</td><td>16K of CSA for the CAS<br>2770K of ECSA for the CAS<br>35K of ECSA for the PAS</td></tr>
<tr><td>Command for MQ S/390 3.0</td><td>16K of CSA for the CAS<br>2770K of ECSA for the CAS<br>35K of ECSA for the PAS</td></tr>
<tr><td>DASD ADVISOR</td><td>Refer to the DASD ADVISOR Implementation Guide</td></tr>
</table>

Table 7. Virtual Storage Estimates (Continued)

| Product | Virtual storage estimates |
|---|---|
| InTune 2.1.00 | When InTune is not monitoring a job:<br>– 4K of CSA<br>– 8K of ECSA<br><br>For each monitor invoked:<br>– 4K of SQA<br>– 160K of ECSA |
| InTune 2.2.00 | When InTune is not monitoring a job:<br>– 4K of CSA<br>– 8K of ECSA<br><br>For each monitor invoked:<br>– 4K of SQA<br>– 160K of ECSA<br><br>Waiting monitors use no SQA or ECSA. |
| MAINVIEW Alarm Manager 1.1.00 | 128 bytes of CSA<br>15KB of ECSA<br>2444KB of private area storage |
| MAINVIEW Alternate Access 3.1.00 | 4MB of private area storage<br>128 bytes of CSA for the LAS<br>384 bytes of CSA for each VTAM TAS<br>6K CSA for all EXCP processing |

Table 7. Virtual Storage Estimates (Continued)

| Product | Virtual storage estimates |
|---|---|
| MAINVIEW AutoOPERATOR 5.1.01 or higher | • Per NetView target systems<br>320K plus an additional 10K for every user logged on through a TS or active thread. An OST can run in as little as 16K.<br>• Per BBI-SS PAS (with MAO, IAO, CAO, and Access NV)<br>2500K private area storage<br>– 30K CSA (subpool 231 and subpool 241)<br>– 190K ECSA<br>• Per TS<br>2500K private area storage<br>– For each group of 12 active TSs or fraction thereof:<br>8K ECSA (subpool 241)<br>– For each active TS:<br>4K CSA (subpool 238 and subpool 241)<br>• Per CICS target systems<br>0K CSA<br>• Per IMS target systems<br>45K IMS control region private storage<br>2.5K CSA (subpool 241) |
| MAINVIEW Explorer 1.3.00 | 256KB of extended private storage per client connection |
| MAINVIEW FOCAL POINT 1.2.00 or higher | Private area storage:<br>• Per BBI-SS PAS<br>70K in the BBI-SS PAS<br>• Per TS<br>20K + (NTGT * (NMON * 5 bytes)+80 bytes)<br>+ 23 bytes * NMONOV)<br>where<br>NTGT Is the number of defined targets.<br>NMON Is the number of global monitors.<br>NMONOV Is the number of monitor overrides. |

Table 7. Virtual Storage Estimates (Continued)

| Product | Virtual storage estimates |
|---|---|
| MAINVIEW for CICS | • CSA and ECSA<br>– Per each active BBI-SS PAS<br>45K MVS/XA CSA<br>40K MVS/XA ECSA<br>20K transient CSA (subpool 228)<br>– Per CICS target system<br>1K CSA<br>5K ECSA<br>– Per CAS<br>16K CSA<br>2770K ECSA<br>• BBI-SS PAS private area storage<br>– Base modules<br>2500K<br>– Background problem services<br>4K extended private for every 50 problems logged<br>– Data collection<br>Graph monitor type<br>File:<br>206 bytes extended private for file resource<br>Medium:<br>1,223 bytes extended private for medium resource<br>Long:<br>2,483 bytes extended private for long resource<br>DL/I:<br>3,086 bytes extended private for DL/I resource<br>Additionally, 8K extended private for every 640 resources being monitored |

Table 7. Virtual Storage Estimates (Continued)

| Product | Virtual storage estimates |
|---|---|
| MAINVIEW for DB2 5.1.00 and 6.1.00 | • Per BBI-SS PAS<br>2500K private area storage<br>– Each active BBI-SS PAS<br>10K CSA (subpool 241)<br>20K ECSA (subpool 241)<br>• Per TS<br>2000K private area storage<br>– Each active TS<br>8K ECSA (subpool 241)<br>– Each group of 12 active TSs or fraction thereof<br>4K CSA (subpool 241)<br>• Per CAS<br>– 16K CSA<br>– 2770K ECSA |

Table 7. Virtual Storage Estimates (Continued)

| Product | Virtual storage estimates |
|---|---|
| MAINVIEW for DBCTL 3.2.00 | • Event Collector<br>– IMS 4.1<br>62K ECSA, 20K CSA (subpool 231)<br>– IMS 5.1<br>66K ECSA, 16K CSA (subpool 231)<br>– IMS 6.1<br>66K ECSA, 16K CSA (subpool 231)<br>– Fast Path support<br>10K ECSA (subpool 231)<br>– Each active dependent region<br>5K ECSA (subpool 231)<br>• MAINVIEW AutoOPERATOR for IMS support for IMS 5.1<br>– See MAINVIEW AutoOPERATOR estimates<br>• Per BBI-SS PAS<br>– 2500K private area storage<br>– Each active BBI-SS PAS<br>10K CSA (subpool 241)<br>25K ECSA (subpool 241 add to CSA if not MVS/XA)<br>• Per TS<br>1000K private area storage<br>– Each active TS<br>8K ECSA (subpool 241)<br>– Each group of 12 active TSs or fraction thereof<br>4K CSA (subpool 241) |

Table 7. Virtual Storage Estimates (Continued)

| Product | Virtual storage estimates |
|---|---|
| MAINVIEW for IMS 3.2.00 | • IMF AOI Exit<br><br>2.5K IMS nucleus<br>10K IMS control region private storage<br>7K CSA (subpool 241)<br><br>• Event Collector<br><br>– IMS 4.1<br>62K ECSA, 20K CSA (subpool 231)<br><br>– IMS 5.1<br>66K ECSA, 16K CSA (subpool 231)<br><br>– IMS 6.1<br>66K ECSA, 16K CSA (subpool 231)<br><br>– Fast Path support<br>10K ECSA (subpool 231)<br><br>– Each active dependent region<br>5K ECSA (subpool 231)<br><br>• Each active IMS WORKLOAD ANALYZER (WA) MWAIT monitor<br><br>5.2K CSA (subpool 241)<br><br>• Any active WA detail trace (MTRAC)<br><br>TRBUFF * TRSIZE<br>ECSA (subpool 241)<br><br>Specified in BBPARM member BBIISP00<br><br>• Per CAS<br><br>– 16K CSA<br><br>– 2770K ECSA<br><br>• Per BBI-SS PAS<br><br>– 2500K private area storage<br><br>– Each active BBI-SS PAS<br><br>10K CSA (subpool 241)<br>25K ECSA (subpool 241)<br><br>• Per TS<br><br>– 1000K private area storage<br><br>– Each active TS<br><br>8K ECSA (subpool 241)<br><br>– Each group of 12 active TSs or fraction thereof<br><br>4K CSA (subpool 241) |

Table 7. Virtual Storage Estimates (Continued)

<table>
<tr><th>Product</th><th>Virtual storage estimates</th></tr>
<tr><td>MAINVIEW for MQSeries 1.2.0</td><td>16K of CSA for the CAS<br>2770K of ECSA for the CAS<br>35K of ECSA for the PAS</td></tr>
<tr><td>MAINVIEW for MQSeries 4.0.0</td><td>16K of CSA for the CAS<br>2770K of ECSA for the CAS<br>42K of ECSA for the PAS<br>180K of ECSA for each MVS Queue Manager</td></tr>
<tr><td>MAINVIEW for MVS or MAINVIEW for OS/390</td><td>10K of CSA for the Extractor<br>110K of ECSA and 200 bytes per sample device for the Extractor<br><br>Amount of storage specified on CSA = parameter of the REPORT control statement, which varies depending upon<br>• Number and type of samplers requested<br>• Size of the operating system with respect to its resources; for example, the number of address spaces, channel paths, and page frames<br><br>Add the following for the Extractor values listed above:<br><br>
<table>
<tr><th></th><th>CSA</th><th>ECSA</th></tr>
<tr><td>CAS</td><td>16K</td><td>2770K</td></tr>
<tr><td>MVS PAS</td><td>40K+</td><td>1500K+*</td></tr>
<tr><td>MAINVIEW Alarm Manager PAS</td><td>0K</td><td>23K</td></tr>
<tr><td>BBX</td><td>20K</td><td>200K+**</td></tr>
<tr><td>UAS</td><td>0K</td><td>***</td></tr>
</table>
* Add Extractor values.<br>** Plus 32 bytes multiplied by the number of UCBs.<br>*** If you are using MAINVIEW Alternate Access instead of a TSO session to access the product, add the values listed for MAINVIEW Alternate Access instead of the values for the TSO session.<br><br>Private storage is obtained from high-end private subpools for CAS, PAS, and UAS; it is not restricted by the region size of the address space.</td></tr>
</table>

Table 7. Virtual Storage Estimates (Continued)

| Product | Virtual storage estimates |
|---|---|
| MAINVIEW SYSPROG Services 3.2.00 | <table><tr><th></th><th>CSA</th><th>ECSA</th></tr><tr><td>CAS</td><td>16K</td><td>2770K</td></tr><tr><td>MVS PAS</td><td>40K+</td><td>1500K+</td></tr><tr><td>BBX</td><td>20K</td><td>200K+**</td></tr><tr><td>UAS</td><td>0K</td><td>***</td></tr></table> ** Plus 32 bytes multiplied by the number of UCBs.<br>*** If you are using MAINVIEW Alternate Access instead of a TSO session to access the product, add the values listed for MAINVIEW Alternate Access instead of the values for the TSO session.<br><br>Private storage is obtained from high-end private subpools for CAS, PAS, and UAS; therefore, it is not restricted by the region size of the address space. |

Table 7. Virtual Storage Estimates (Continued)

| Product | Virtual storage estimates |
|---|---|
| MAINVIEW for UNIX System Services (USS) | 10K of CSA for the Extractor<br><br>Add the following to the Extractor value:<br><br>CSA ECSA<br>CAS 16K 2770K<br>MVS PAS 40K+ 1500K+<br>MAINVIEW Alarm Manager PAS 0K 23K<br>BBX 20K 200K+**<br>UAS 0K ***<br><br>** Plus 32 bytes multiplied by the number of UCBs.<br><br>*** If you are using MAINVIEW Alternate Access instead of a TSO session to access the product, add the values listed for MAINVIEW Alternate Access instead of the values for the TSO session.<br><br>Private storage is obtained from high-end private subpools for CAS, PAS, and UAS; therefore, it is not restricted by the region size of the address space. |
| MAINVIEW VistaPoint | No additional CSA requirements beyond associated client products |
| MODEL 300 | 4MB private area storage |
| RESOLVE SRM 5.1 (without SG-Control) | 58K CSA<br>835K ECSA |
| RESOLVE SRM 5.1 (with SG-Control) | 61K CSA<br>1024K ECSA |
| RxD2 | 65K additional private area storage |
| StorageGUARD 3.1.00 | No CSA usage<br>TSO/E users require a minimum of 4MB<br>4MB private storage region |

## System Requirements

You may need to make the following target system changes before installing and customizing your BMC Software products.

## Before Installation

Before installing your BMC Software products, determine if your site security system controls access to tape data sets at the data set name level. If so, you must perform the following:

- Define a rule for each data set to provide read access (by first scanning the tape to determine the data set names).
- Execute the installation jobs using an authority level sufficient to provide generic read access.

## Before Customization

If you are going to perform AutoCustomization, you must ensure write access to

- SYS1.PARMLIB
- A JES procedure library (SYS1.PROCLIB or equivalent)
- A previously APF-authorized load library
- SYS1.VTAMLST or equivalent for MAINVIEW Alternate Access

# Chapter 3. Creating Product Libraries with AIM

Follow the instructions in this chapter only if you are using Automatic Installation Method (AIM) product tapes. If you received SMP-formatted tapes, see Chapter 4, “Creating Product Libraries with SMP/E” on page 43.

All products on the tapes are protected and must be installed using AIM. The installation notes distributed with AIM list the requested products and the Selection Codes required to install them.

During the execution of the AIM installation program, you will be presented with screens that show the complete range of products that can be installed using AIM.

The steps in the process are as follows:

1. Load the AIM delivery mechanism.
2. Execute the AIM program.
3. Allocate the product libraries.
4. Load the product libraries.

## Step 1: Load AIM Delivery Mechanism

The method you choose to load the AIM delivery mechanism to your site’s computer system depends on whether you are installing AIM for the first time, or if you have previously installed AIM.

**Important**

AIM tapes are date-protected. If you attempt to execute the AIM program after the expiration date (printed on the tape label), the following message is displayed:

***AIM Expiration date reached–XX/XX/XX***

## First-time AIM Installation

To begin first-time AIM installation:

1. Create JCL to download the INSTLOAD and INSTCNTL libraries, using Figure 2 on page 38 as a model. ***These files must be unloaded from the tape labelled ''AIM Installation Programs''.***

2. Submit the JCL for execution

```
//COPYAIM EXEC PGM=IEBCOPY
//LOADTPE  DD  DSN=AIM.FILE013,DISP=(OLD,PASS),LABEL=(13,SL),
//             UNIT=????,VOL=SER=AxxxxM     <==specify values
//CNTLTPE  DD  DSN=AIM.FILE014,DISP=(OLD,KEEP),LABEL=(14,SL),
//             UNIT=????,VOL=SER=AxxxxM     <==specify values
//LOADDSK  DD  DSN=BBE.AIM.INSTLOAD,        <==change if necessary
//             DISP=(NEW,CATLG,DELETE),
//             SPACE=(TRK,(20,10,10)),
//             UNIT=????,VOL=SER=??????     <==specify values
//CNTLDSK  DD  DSN=BBE.AIM.INSTCNTL,        <==change if necessary
//             DISP=(NEW,CATLG,DELETE),
//             SPACE=(TRK,(20,10,10)),
//             UNIT=????,VOL=SER=??????     <==specify values
//SYSPRINT DD  SYSOUT=*
//SYSIN    DD  *
  C I=LOADTPE,O=LOADDSK
  C I=CNTLTPE,O=CNTLDSK
/*
```

Figure 2. JCL to Download AIM Installation Program Libraries

**Note:** These files must be unloaded from the tape labeled ***"AIM Installation Programs".***

## Existing AIM Users

Two members, JCLNEW and JCLUPD, are provided in your existing `hilevel.AIM.INSTCNTL` data set.

Member JCLNEW contains the JCL (similar to Figure 2) to allocate and load new `hilevel.AIM.INSTLOAD` and `hilevel.AIM.INSTCNTL` data sets from the distribution tape.

Member JCLUPD contains the JCL for copying only the new AIM programs to your existing `hilevel.AIM.INSTLOAD` and `hilevel.AIM.INSTCNTL` data sets. Your existing AIM PROFILE member will be retained.

**Note:** You may need to change the input DSNs and labels in the JCL provided in these members. Old distributed versions of these members reference labels 1 and 2 and should be changed as follows:

- The LOADTPE DD card should reference DSN=AIM.FILE013 and LABEL=(13,SL).
- The CNTLTPE DD card should reference DSN=AIM.FILE014 and LABEL=(14,SL).

## Step 2: Execute the AIM Program

To execute the AIM program, perform the following:

1. Edit the member AIMCLIST in the `hilevel.INSTCNTL` library, specifying the data set names chosen for INSTLOAD and INSTCNTL libraries in "Step 1: Load AIM Delivery Mechaism" on page 45.

2. Execute the CLIST by issuing the following TSO command:

   ```
   EX 'hilevel.INSTCNTL(AIMCLIST)'
   ```

   If you experience any problems executing the CLIST, try executing it from native TSO.

   The AIM Installation Program presents a series of panels that list the products you can install. You can scroll backwards and forwards through the installation panels using PF7 and PF8.

3. Enter the selection codes to select the product(s) or complete families of products to install. (You can find these selection codes on page 2 of the *Installation Notes.*)

4. Press PF10 to confirm the product selection and continue with the remainder of the installation procedure.

AIM displays a series of panels that prompt you for site-specific parameters. AIM stores these values in the PROFILE member of `hilevel.INSTCNTL` library as the default for any subsequent AIM installation.

The AIM Installation Program generates the following members in your `hilevel.INSTCNTL` library:

**AIMINST1** Data set allocations

**AIMINST2** Installation JCL

**AIMINST3** Any additional installation JCL

**AIMINSTC** JCL to compress libraries after installation (optional)

**AIMINSTM** JCL to copy libraries to a Production system (optional)

**AIMINSTD** JCL to delete all allocated libraries in the event that a restart is required

**AIMLOG** Contains a log of products installed, volume serials of tapes used, and all parameters entered on the AIM installation screens

## Step 3: Allocate the Product Libraries

To allocate the product libraries:

Edit member AIMINST1 in the `hilevel.INSTCNTL` library.

***Do not modify this JCL.***

This job consists of steps to allocate the product libraries and the VSAM CSI and SMP/E non-VSAM data sets.

5. Submit the JCL for execution.
6. Check the output.

   All steps in the job should end with a condition code of zero.

## Step 4: Load Product Libraries

To load the product libraries:

Edit member AIMINST2 in the `hilevel.INSTCNTL` library.

***Do not modify this JCL.***

This job

- Copies all necessary files from the AIM tapes to the libraries allocated in “Step 3: Allocate the Product Libraries”
- Customizes the SMP environment to include your high-level qualifier
- Cleans up unselected products
- Creates one set of SMP zones and one set of target and distribution libraries containing all selected products

  **Note:**

  - This SMP environment cannot be merged with an existing BMC Software environment.
  - All selected products are in ACCEPTed status and can be subsequently maintained using BMC Software BBPUT or BBCAND tapes.
  - At the beginning of AIMINST2 is a procedure called AIMSMP that you can copy to a procedure library. You will need this procedure later if you wish to install maintenance or new products into your AIM environment.

7. Submit the JCL for execution.
8. Check the output.

   All steps in the job should end with a condition code no higher than four.

   **Note:**If you receive a condition code higher than 4, call your representative.

Successful completion of AIMINST2 loads the libraries required to run the product(s) you selected. To make your product libraries operational, customize them as described in Chapter 5, “Customizing the Installed Products” on page 67.

**Important**

BMC Software recommends completing the installation of your distribution libraries and cleanup of the SMP CSI as soon as possible after customization. You will not be able to apply maintenance until this has been done.

# Chapter 4. Creating Product Libraries with SMP/E

This chapter is for customers who are installing BMC Software products using an SMP/E-formatted product tapes. If you received AIM-formatted product tapes, refer to the installation instructions in Chapter 3, “Creating Product Libraries with AIM” on page 37 .

This chapter describes

- How to obtain the latest product-related information and recent problem solutions (PTFs) since your product tape was released; see “Requesting Product-Related Information” on page 44.
- How to download the SMP/E sample jobs; see “Downloading SMP/E Sample JCL to DASD” on page 45.
- How to install BMC Software products using SMP/E; see “SMP/E Installation Procedure” on page 46.
- How to download product libraries; see “Downloading Product Libraries with SMP/E” on page 52.

## What Is SMP/E?

SMP/E is IBM installation software that lets you install and service any software packaged as a system modification (SYSMOD). BMC Software provides sample jobs to make it easier for you to install its products using SMP/E.

All SMP/E product tapes include a common function called BBAAA20. This function is always the first function SYSMOD on the tape. BBAAA20 provides the jobs you use to create the SMP/E environment and download the product libraries to DASD. The following sections describe how to download and use these jobs.

## Requesting Product-Related Information

Before you install the product libraries, you need to obtain the most recent product-related information and problem solutions (PTFs) for your products. This information is available in Technical Bulletins on the BMC Software Web site. For details on accessing the Web site, see "Customer Support" on page iii.

## Processing HOLDATA

The Technical Bulletins obtained from the BMC Software Web site may indicate HOLD data for PTFs that are in error. PTFs that are in error should not be applied to your system. To prevent an erroneous PTF from being applied, perform the following steps:

1. Create a data set for HOLD data processing as described in the IBM book, *System Modification Program Extended Reference*.
2. Use the following MCS statements to enter exception SYSMOD HOLDDATA in your data set.

```
++HOLD(_______)
  FMID(_______)
  DATE(______)
  ERROR REASON(_______)
COMMENT(____________________________________________________________)
```

3. To process HOLD data from your data set and list the exception SYSMODs, unload the SMP/E environment JCL to DASD (see Figure 3 on page 45) and use *hilevel*.JCL.CNTL members #$A22HLD and #$A30LST as described in "#$A22HLD" and "#$A30LST" on page 55. Review the hardcopy listings to determine if any action needs to be taken.

For more information on HOLD data see, Appendix D, "Exception System Modifications (SYSMODs)" on page 117.

## Downloading SMP/E Sample JCL to DASD

BBAAA20 is a common function for all the product lines. It provides sample SMP/E jobs for setup, product installation, and maintenance. You can use these jobs to install your BMC Software products and to apply maintenance. BBAAA20 data is copied into the distribution library (ABBILIB) during ACCEPT processing of function BBAAA20. BBAAA20 does not update any library during APPLY processing.

***Instructions:*** Use the following JCL to copy the common function BBAAA20 from the product tape to a data set you specify (JCL.CNTL is used in all the examples in this book), making the noted changes as instructed below:

```
//Jobcard   JOB (account),'programmer'
//COPY      EXEC  PGM=IEBCOPY
//SYSPRINT  DD  SYSOUT=*
//SYSUT1    DD  DSN=BBAAA20.F1,LABEL=(2,SL),DISP=OLD,
//              UNIT=tunit,VOL=SER=tape1
//SYSUT2    DD  DSN=hilevel.JCL.CNTL,UNIT=punit,
//              SPACE=(TRK,(10,10,30)),DISP=(,CATLG),
//              VOL=SER=pvol
//SYSIN     DD  DUMMY
```

Figure 3. IEBCOPY JCL for Common Function BBAAA20

1. Modify the JOB statement to your site's standards.
2. Change the following:

| **Replace:** | **With:** |
|---|---|
| *tunit* | The ID of the installation tape unit. |
| *tape1* | The serial number of the first or only SMP installation tape volume. |
| *hilevel* | Your prefix for the product data set. The prefix is your site's high-level qualifier for BMC Software product data sets and is represented by the word *hilevel* throughout this book. |
| *punit* | The product target unit ID. |
| *pvol* | The serial number of the DASD target volume. |

3. Submit the job to create the *hilevel*.JCL.CNTL data set.
4. Check the job output to verify that the job completed successfully.

***Results:*** Upon successful job completion, sample installation jobs are downloaded to DASD as members of a data set named *hilevel*.JCL.CNTL. Use the *hilevel*.JCL.CNTL members as described in "SMP/E Installation Procedure" on page 46 to create your SMP/E environment and download the product libraries to DASD.

## SMP/E Installation Procedure

The sample jobs that you downloaded to *hilevel*.JCL.CNTL (see Figure 3 on page 45) can be used to install BMC Software SMP/E-packaged products. This section contains usage instructions for these sample jobs and procedures for installing BMC Software products using SMP/E.

The SMP/E procedure is described in the IBM publications *System Modification Program Extended User's Guide* and *System Modification Program Reference*.

## Installing Multiple BMC Software Products

BMC Software products have common components and must be installed into one set of target and distribution zones. This allows SMP/E to control the relationships among the components. Future products and enhancements to existing products may also share components distributed previously.

**Caution**

BMC Software products ***should not be*** installed in zones that contain products distributed or manufactured by vendors other than BMC Software or IBM. BMC Software does not recognize the naming conventions of any other vendor except IBM.

**Warning**

If you are installing MAINVIEW AutoOPERATOR, note that MAINVIEW AutoOPERATOR cannot be installed into a zone with IBM products because of name conflicts with elements WTO and SUB. Appendix E, "SMP/E Zone Considerations" on page 119 provides more information about the use of zones for BMC Software products.

## Creating the SMP/E Environment

When creating the SMP/E environment, you can install BMC Software SMP/E-packaged products in an existing SMP/E environment or you can create a new SMP/E environment using sample jobs in *hilevel*.JCL.CNTL members.

**Note:** For more information on the installation of BMC Software products into an existing or new SMP/E environment, see Appendix E, "SMP/E Zone Considerations" on page 119.

Two members apply to all SMP/E environments: $$A00INF and $JOBCARD.

- $$A00INF contains the latest information about your products.
- $JOBCARD contains a job statement for other sample installation jobs.

***Instructions:*** The following instructions apply to all SMP/E environments:

**Note:** Be sure that the information applies to the version of the product you are installing before you incorporate it into your installation instructions.

1. Select $$A00INF for online browsing or offline printing.
2. Read $$A00INF for recent information about BMC Software products.
3. Edit $JOBCARD to conform to your site's requirements.
4. Save your edits so that $JOBCARD can be copied as the job statement into other sample jobs you use from *hilevel*.JCL.CNTL.

***Results:*** $JOBCARD now contains a user-defined job statement that can be copied to other *hilevel*.JCL.CNTL sample installation job members.

### Using an Existing SMP/E Environment

This section provides information for installing BMC Software products into an existing SMP/E environment. You do not need to read this section if you are installing your products into new SMP/E zones.

**Caution**

Prior to running the RECEIVE and APPLY processes on new products or maintenance, run the ACCEPT process on all previously installed products and maintenance.

The SMP/E environment can have several installation configurations using existing SMP/E zones:

- Existing global, target, and distribution zones
- Existing global zones with new target and distribution zones

Each configuration has specific issues that need to be considered.

### Considerations for All SMP/E Environments with Existing Zones

The following are issues related to all SMP/E environments with existing zones:

- Allocating space
- Updating the global zone

Before you install your products into an existing SMP/E environment, you must consider the number of directory blocks you need to allocate. Provide 400 directory blocks for the SMPTLIB. Failure to allocate these directory blocks can result in SMP/E errors.

- Verify that your `DSSPACE` parameters are

  `DSSPACE (`*`xxx`*`,`*`xxx`*`,400)`

  where the *`xxx`* values are determined by your site and the last parameter ***must*** be `400`.

- If the correct allocation has not yet been made, use the following sample UCLIN:

```
SET BDY(GLOBAL)
UCLIN.
REP OPTIONS(BAB)
DSSPACE(200,120,400)
ENDUCL.
```

You must also make sure that the global zone is updated with a BMC Software entry. When new target and distribution zones share the same global zone, an SREL(BOOL) entry must be in the global zone before you can install your products.

The global zone can be checked for an SREL(BOOL) entry. If an SREL(BOOL) entry is found in your global zone, it indicates that BMC Software products have previously been installed in your system.

To create an SREL(BOOL) entry, see "$$A42REL" on page 49.

### Considerations for Existing Global, Target, and Distribution Zones

The target libraries contain multiple products. When libraries are shared by multiple products, use the same high-level prefix for the target libraries that you used previously. Common components between products, such as BBIIS25 or BBISS26, are installed only once and maintenance needs to be applied only once.

### Considerations for Existing Global Zones with New Target and Distribution Zones

The following are issues related to SMP/E environments with new target and distribution zones:

- Applying products and maintenance
- Relating the global zones to the target and distribution zones

For a global zone with two sets of target and distribution zones connected to it, common components are installed twice. Maintenance can be received once in that global zone, but it must be applied to both sets of target and distribution zones. If you want to execute multiple products together, you need to concatenate the target libraries.

**Note:** If you are installing products that run in the BBI-SS PAS (MAINVIEW AutoOPERATOR, MAINVIEW FOCAL POINT, MAINVIEW for CICS, MAINVIEW for DB2, MAINVIEW for IMS, or MAINVIEW for DBCTL), a BBI-TS should be connected only to a BBI-SS PAS of the same release and maintenance level.

In order to install your products and apply maintenance, the new target and distribution zones must be related to the existing global zone. BMC Software has two supplied jobs called $$A20CSI and $$A42REL JCL. Follow the instructions below for $$A20CSI and $$A42REL JCL which allocate new target and distribution zones related to the same global zone.

***Instructions:*** The following set of instructions describes how to edit and use the $$A20CSI and $$A42REL members:

### $$A20CSI

The $$A20CSI member creates new target and distribution zones.

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.
2. Globally change all **????????** to your prefix for BMC Software products.
3. Globally change all **VVVVVV** to the serial number of the product target volume.
4. Save your changes.
5. Submit the job, which creates new target and distribution zones.

### $$A42REL

The $$A42REL member relates new target and distribution zones to an existing global zone and updates the global, target, and distributions zones with an SREL(BOOL) entry.

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.
2. Change BBSMPE to the unique name of your SMP/E JES procedure for BMC Software products, or edit #@APROCE as described in "#@APROCE" on page 51 and copy it as an instream procedure after the JOB statement.
3. Change **????????** to the name of the target zone created by $$A20CSI:
```
SET BDY(????????)
UCLIN.
ADD TARGETZONE(????????)
```
4. Change **????????** to the name of the distribution library created by $$A20CSI:
```
SET BDY(????????)
UCLIN.
ADD DLIBZONE(????????)
```
5. Save your changes.
6. Submit the job.

***Results:*** New target and distribution zones are related to an existing global zone. See "Downloading Product Libraries with SMP/E" on page 52 to install your products in the SMP/E target and distribution zones.

## Using a New SMP/E Environment

You can create a new SMP/E environment using sample jobs in *hilevel*.JCL.CNTL members. These members are $$A10GBL, $$A20CSI, $$A30SMP, #@APROCE, and $$A40REL.

***Instructions:*** The following set of instructions describes how to edit and use the $$A10GBL, $$A20CSI, $$A30SMP, #@APROCE, and $$A40RE members:

### $$A10GBL

Use the $$A10GBL member to create a global zone.

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.
2. Globally change all **????????** to your prefix for BMC Software products.

   **Note:** If AutoCustomization is going to be used, the prefix for the product libraries (see Chapter 5, "Customizing the Installed Products" on page 67) must not be the same as the TSO user ID of the person conducting the installation.
3. Globally change all **VVVVVV** to the serial number of the product target volume.
4. Save your changes.
5. Submit the job to create a new global zone.

### $$A20CSI

Use the $$A20CSI member to create new target and distribution zones.

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.
2. Globally change all **????????** to your prefix for BMC Software products.
3. Globally change all **VVVVVV** to the serial number of the product target volume.
4. Save your changes.
5. Submit the job to create new target and distribution zones.

### $$A30SMP

Use the $$A30SMP member to allocate non-VSAM data sets.

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.
2. Globally change **????????** to your prefix for BMC Software non-VSAM SMP/E data sets.
3. Change **UUUUU** to the unit ID of the target unit for the BMC Software non-VSAM SMP/E data sets.
4. Change **VVVVVV** to the serial number of the BMC Software SMP/E data set target volume.
5. Save your changes.
6. Submit the job to allocate non-VSAM SMP/E data sets.

### #@APROCE

Use the #@APROCE member to create an SMP/E procedure that can be cataloged in a JES procedure library or used within a job as needed.

1. Globally change all **????????** to your BMC Software product prefix.
2. Change **VVVVVV** to the serial number of the target library volume.
3. Change **UUUUU** to the unit ID of the volume for the target libraries.
4. Give a unique name to the new SMP/E JES procedure for BMC Software products.
5. Save your changes.
6. Copy the edited #@APROCE member to a JES procedure library and delete the PEND statement.

   Or

   Copy it to each applicable job after the JOB statement as noted in the job descriptions and use it as an instream procedure.

### $$A40REL

Use the $$A40REL member to define BMC Software options and relate new BMC Software target and distribution zones to a global zone. If you want to create new target and distribution zones only for BMC Software products, you must relate these zones to the global zone.

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.
2. If #@APROCE is copied to your JES procedure library (see "#@APROCE" on page 51), change BBSMPE to the unique name of your SMP/E JES procedure for BMC Software products.

   If #@APROCE is not in your JES procedure library, copy it as an instream procedure after the JOB statement.
3. Globally change all **????????** to your prefix for BMC Software products.
4. Save your changes.
5. Submit the job to relate BMC Software target and distribution library zones to the global zone and define the options to be used for RECEIVE, APPLY, and ACCEPT processing.

   **Note:** A return code of 4 and ADD ASSUMED messages are normal. If the job ends with a higher return code, check the output and call BMC Software Customer Support.

***Results:*** New global, target, and distribution zones and non-VSAM data sets are defined to SMP/E. See "Downloading Product Libraries with SMP/E" on page 52 to install your products in the SMP/E target and distribution zones.

## Downloading Product Libraries with SMP/E

This section contains instructions on how to download product libraries with SMP/E. It also gives instructions on how to use the RECEIVE, APPLY, and ACCEPT programs for product functions and maintenance, and for defining target and distribution libraries to SMP/E using sample jobs in *hilevel*.JCL.CNTL members.

***Instructions:*** The following set of instructions describe how to edit and use the #$A10RCP, #$A12LST, #$A14REJ, #$A20RCS, #$A22HLD, #$A30LST, and #$A35DOC members:

### #$A10RCP

The #$A10RCP member receives (RECEIVE) product tapes.

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.
2. If #@APROCE is copied to a JES procedure library (see "#@APROCE" on page 51), change BBSMPE to the unique name of your SMP/E JES procedure for BMC Software products.
3. If #@APROCE is not in your JES procedure library, copy it as an instream procedure after the JOB statement, but before the RECEIVE statement.
4. Change **VVVVVV** to the serial number of the product tape volume.
5. Change **TAPE1** to the ID of the product tape unit.
6. Save your changes.
7. Submit the job to RECEIVE all functions on the product tape.
8. Review the output and write down the list of function modification IDs (FMIDs) received from the RECEIVE summary output.

   These FMIDs are used in the #$A12LST job described below.

   **Notes:** If you are installing this product in a separate zone, skip the following instructions for the #$A12LST and #$A14REJ jobs and continue with "#$A20RCS" on page 54 to receive maintenance data.

   Follow the #$A12LST and #$A14REJ instructions below only if you are installing your product(s) in the same target and distribution libraries as other BMC Software products.

### #$A12LST

The #$A12LST member lists the functions previously applied in target zones and accepted in distribution library zones.

**Note:** Use this member only if you are installing a product(s) in the same target and distribution libraries as other BMC Software products.

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.
2. If #@APROCE is copied to a JES procedure library (see "#@APROCE" on page 51), change BBSMPE to the unique name of your SMP/E JES procedure for BMC Software products.

   If #@APROCE is not in your SMP/E JES procedure library, copy it as an instream procedure after the JOB statement.
3. Save your changes.
4. Submit the job to list functions previously APPLYed in target zones and ACCEPTed in distribution library zones.
5. Compare the FMIDs on this output with the FMIDs you wrote down from the preceding job (#$A10RCP on page 52).

   On the list you wrote down, note the FMIDs that are **not** duplicated in #$A12LST. These (the new FMIDs that do not already exist) are the ones you will later APPLY and ACCEPT.

### #$A14REJ

#$A14REJ rejects functions that were previously RECEIVEd, APPLYed, and ACCEPTed. A subsequent SMP/E RECEIVE of functions that contain REWORK dates later than previously APPLYed and ACCEPTed functions are not processed. These functions must be REJECTed selectively.

**Notes:**

- Previously installed functions that are shipped with product upgrades should NOT be re-installed.
- Use this member only if you are installing a product(s) in the same target and distribution libraries as other BMC Software products.

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.
2. If #@APROCE is copied to a JES procedure library (see "#@APROCE" on page 51), change BBSMPE to the unique name of your SMP JES procedure for BMC Software products.
3. If #@APROCE is not in your JES procedure library, copy #@APROCE as an instream procedure after the JOB statement.
4. Save your changes.
5. Submit the job to reject any duplicate functions.

### #$A20RCS

#$A20RCS receives the maintenance data from the cumulative maintenance tape or program update maintenance tapes.

**Notes:**

Before you edit and submit #$A20RCS, be sure to review the ++HOLD, ++RELEASE summary report you received from BMC Software, noting the PTFs included on your maintenance tape.

Because the maintenance tape includes maintenance for all BMC Software products, output from #$A20RCS may include ++VER messages that indicate maintenance for other products was not RECEIVEd. These diagnostic messages cause a step return code of 4.

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.
2. If #@APROCE is copied to a JES procedure library (see "#@APROCE" on page 51), change BBSMPE to the unique name of your SMP/E JES procedure for BMC Software products.

   **Notes:** This job has three steps. If you used a name other than BBSMPE, the SMP/E procedure name must be changed in all three steps.

If #@APROCE is ***not*** in your JES procedure library, copy it as an instream procedure after the JOB statement.

3. Change **VVVVVV** to the serial number of the maintenance tape.
4. Save your changes.
5. Submit the job to receive HOLD data, APARs, or PTFs.

### #$A22HLD

The #$A22HLD member receives HOLD statements that are stored in your data set.

**Note:** Do this step only if you called and received HOLD data from BMC Software Customer Support (see "Requesting Product-Related Information" on page 44).

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.
2. If #@APROCE is copied to a JES procedure library (see "#@APROCE" on page 51), change BBSMPE to the unique name of your SMP/E JES procedure for BMC Software products.

   If #@APROCE is not in your JES procedure library, copy it as an instream procedure after the JOB statement.
3. Globally change **????????** to the name of your data set for HOLD data.
4. Save your changes.
5. Submit the job to receive HOLD data obtained from Customer Support (see "Requesting Product-Related Information" on page 44).

### #$A30LST

The #$A30LST member lists HOLDDATA.

SYSMODs that are held because of errors are released automatically when an APAR or PTF resolves the error, as described in Appendix D, “Exception System Modifications (SYSMODs)” on page 117. SYSMODs held for documentation or action must be released with the BYPASS keyword in the APPLY JCL at the end of the #$A60APL job.

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.
2. If #@APROCE is copied to a JES procedure library (see “#@APROCE” on page 51), change BBSMPE to the unique name of your SMP/E JES procedure for BMC Software products.
3. If #@APROCE is not in your JES procedure library, copy it as an instream procedure after the JOB statement.
4. Save your changes.
5. Submit the job to list any SYSMODs that have system, documentation, or error HOLDs.

### #$A35DOC

#$A35DOC contains JCL to print PTF documentation from the maintenance tape.

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.
2. Change **TAPE1** to the ID of the tape unit.
3. Change **VVVVVV** to the serial number of the maintenance tape.
4. Keep the product documentation and insert it into the appropriate book.

## Data Set Allocation Jobs

Table 8 on page 57 contains data set allocation information for all release levels of each product. Use Table 8 to select the data set allocation jobs that you need to install your BMC Software products. Be sure to customize the job for the release levels you are installing. For each job selected, perform the following steps:

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.
2. Globally change **????????** to your prefix for BMC Software products.
3. Change **UUUUU** for the TU parameter to the unit ID of the target library.
4. Change **VVVVVV** for the TV parameter to the serial number of the target library volume.
5. Change **UUUUU** for the DU parameter to the ID of the distribution library unit.
6. Change **VVVVVV** for the DV parameter to the serial number of the distribution library volume.
7. Save your changes.
8. Submit the job to allocate required, common product target libraries and distribution libraries.

   **Note:** Define your data sets to SMP/E by either of the following methods:

   - To define your data sets to SMP/E with DD statements, follow the instructions in "DD Statement Members" on page 58.
   - To define your data sets to SMP/E with DDDEF statements, follow the instructions in "DDDEF Statement Members" on page 60.

If you are installing multiple products, you need to customize and run the appropriate data set allocation jobs.

**Example**

If you are installing MODEL 300, customize and run the #@AALLOC, #@FALLOC, #@MALLOC, and #@YALLOC data set allocation jobs.

Table 8. Data Set Allocation Job Table for SMP/E

| Products | Data set allocation job | | | | |
|---|---|---|---|---|---|
| | #@AALLOC | #@BALLOC | #@FALLOC | #@MALLOC | #@YALLOC |
| CMF MONITOR | √ | | | √ | √ |
| Command MQ for S/390 | √ | √* | | | √ |
| DASD ADVISOR | √ | | | √ | |
| InTune | √ | | | √ | |
| MAINVIEW Alarm Manager | √ | | | √ | √ |
| MAINVIEW Alternate Access | √ | | | √ | √ |
| MAINVIEW AutoOPERATOR | √ | | | √ | |
| MAINVIEW Explorer | √ | | | √ | √ |
| MAINVIEW FOCAL POINT | √ | | | | |
| MAINVIEW for CICS | √ | √* | | | √ |
| MAINVIEW for DB2 | √ | √* | | | √ |
| MAINVIEW for DBCTL | √ | √* | | | √ |
| MAINVIEW for IMSPlex System Manager | √ | √* | | | √ |
| MAINVIEW for IMS Offline Products | √ | | | | |
| MAINVIEW for IMS Online Products | √ | √* | | | |
| MAINVIEW for IP | √ | | | √ | √ |
| MAINVIEW for MQSeries | √ | √* | | | √ |
| MAINVIEW for MVS | √ | | | √ | √ |
| MAINVIEW for OS/390 | √ | | | √ | √ |
| MAINVIEW for UNIX System Services | √ | | | √ | √ |
| MAINVIEW for VTAM | √ | | | √ | √ |
| MAINVIEW for WebSphere | √ | | | √ | √ |
| MAINVIEW Solutions | √ | | | √ | |
| MAINVIEW SYSPROG Services | √ | | | √ | √ |
| MAINVIEW VistaPoint | √ | √* | | | √ |
| MODEL 300 | √ | | √ | √ | √ |
| RESOLVE SRM 5.1 | √ | | | √ | |
| RxD2/LINK and RxD2/FlexTools | √ | | | | |
| StorageGUARD 3.1.00 | √ | | | √ | |
| * #@BALLOC should be copied only if #@MALLOC will not be copied. | | | | | |

## DD Statement Members

Use Table 9 on page 59 to select the DD statement members that must be copied when you install the specific combination of BMC Software products at your site.

**Note:** Complete the following steps only if you are using DD statements. To use DDDEFs, proceed to step "DDDEF Statement Members" on page 60.

1. Copy each member selected to #@APROCE before the PEND statement.
2. Edit #@APROCE and globally change all **????????** to your prefix for BMC Software products.
3. Save your changes.
4. Copy the procedure as an instream procedure in the applicable APPLY and ACCEPT jobs after the job statement, as noted in the job descriptions, or delete the PEND statement and copy the procedure to a JES procedure library.

If you are installing multiple products, copy the appropriate DD statement members.

**Example**

If you are installing MODEL 300, copy the #@ADDS, #@FDDS, #@MDDS, and #@YDDS members.

Table 9. DD Statement Member Table for SMP/E

| Products | DD statement member | | | | | | |
|---|---|---|---|---|---|---|---|
| | #@ADDS | #@BDDS | #@FDDS | #@IDDS | #@MDDS | #@ODDS | #@YDDS |
| CMF MONITOR | √ | | | | √ | | √ |
| Command MQ for S/390 | √ | √* | | √ | | | √ |
| DASD ADVISOR | √ | | | | √ | | √ |
| InTune | √ | | | | √ | | |
| MAINVIEW Alarm Manager | √ | | | | √ | | √ |
| MAINVIEW Alternate Access | √ | | | | √ | | √ |
| MAINVIEW AutoOPERATOR | √ | | | | √ | √ | |
| MAINVIEW Explorer | √ | | | | √ | | √ |
| MAINVIEW FOCAL POINT | √ | | | √ | | | |
| MAINVIEW for CICS | √ | √* | | √ | | | √ |
| MAINVIEW for DB2 | √ | √* | | √ | | | √ |
| MAINVIEW for DBCTL | √ | √* | | √ | | | √ |
| MAINVIEW for IMSPlex System Manager | √ | √* | | √ | | | √ |
| MAINVIEW for IMS Offline Products | √ | | | √ | | | |
| MAINVIEW for IMS Online Products | √ | √* | | √ | | | |
| MAINVIEW for IP | √ | | | | √ | | √ |
| MAINVIEW for MQSeries | √ | √* | | √ | | | √ |
| MAINVIEW for MVS | √ | | | | √ | | √ |
| MAINVIEW for OS/390 | √ | | | | √ | | √ |
| MAINVIEW for UNIX System Services | √ | | | | √ | | √ |
| MAINVIEW for VTAM | √ | | | | √ | | √ |
| MAINVIEW for WebSphere | √ | | | | √ | | √ |
| MAINVIEW Solutions | √ | | | | √ | √ | |
| MAINVIEW SYSPROG Services | √ | | | | √ | | √ |
| MAINVIEW VistaPoint | √ | √* | | | | | √ |
| MODEL 300 | √ | | √ | | √ | | √ |
| RESOLVE SRM 5.1 | √ | | | | √ | | |
| RxD2/LINK and RxD2/FlexTools | √ | | | | | | |
| StorageGUARD 3.1.00 | √ | | | | √ | | |
| * #@BDDS should be copied only if #@MDDS will not be copied. | | | | | | | |

## DDDEF Statement Members

The contents of the #@ADDDEF member and other members are copied after the SMPCNTL DD statement in #$A50DEF.

**Note:** Complete the following steps only if you are using DDDEFs. To use DD statements, see "DD Statement Members" on page 58.

### #$A50DEF

#$A50DEF creates DDDEFs. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.

Use Table 10 on page 61 to select the DDDEF members that must be copied to install the specific mix of BMC Software products at your site. For each job selected, perform the following steps:

1. Copy each member selected after the SMP/E CNTL DD statement.
2. Globally change **????????** to your prefix for BMC Software products.
3. If #@APROCE is copied to a JES procedure library, change BBSMPE to the unique name of your SMP/E JES procedure for BMC Software products.

   If #@APROCE is not in your JES procedure library, copy it as an instream procedure after the JOB statement.
4. Save your changes.
5. Submit the job to define the common libraries, product target libraries, and distribution libraries to SMP/E. If you are installing multiple products, you need to copy the appropriate DDDEF members.

**Example**

If you are installing MODEL 300, copy the #@ADDDEF, #@FDDDEF, #@MDDDEF, and #@YDDDEF members.

Table 10. DDDEF Member Table for SMP/E

| Products | DDDEF member | | | | | | |
|---|---|---|---|---|---|---|---|
| | #@ADDDEF | #@BDDDEF | #@FDDDEF | #@IDDDEF | #@MDDDEF | #@ODDDEF | #@YDDDEF |
| CMF MONITOR | √ | | | | √ | | √ |
| Command MQ for S/390 | √ | √* | | √ | | | √ |
| DASD ADVISOR | √ | | | | √ | | √ |
| InTune | √ | | | | √ | | |
| MAINVIEW Alarm Manager | √ | | | | √ | | √ |
| MAINVIEW Alternate Access | √ | | | | √ | | √ |
| MAINVIEW AutoOPERATOR | √ | | | | √ | √ | |
| MAINVIEW Explorer | √ | | | | √ | | √ |
| MAINVIEW FOCAL POINT | √ | | | √ | | | |
| MAINVIEW for CICS | √ | √* | | √ | | | √ |
| MAINVIEW for DB2 | √ | √ | | √ | | | √ |
| MAINVIEW for DBCTL | √ | √* | | √ | | | √ |
| MAINVIEW for IMSPlex System Manager | √ | √* | | √ | | | √ |
| MAINVIEW for IMS Offline Products | √ | | | √ | | | |
| MAINVIEW for IMS Online Products | √ | √* | | √ | | | |
| MAINVIEW for IP | √ | | | | √ | | √ |
| MAINVIEW for MQSeries | √ | √* | | √ | | | √ |
| MAINVIEW for MVS | √ | | | | √ | | √ |
| MAINVIEW for OS/390 | √ | | | | √ | | √ |
| MAINVIEW for UNIX System Services | √ | | | | √ | | √ |
| MAINVIEW for VTAM | √ | | | | √ | | √ |
| MAINVIEW for WebSphere | √ | | | | √ | | √ |
| MAINVIEW Solutions | √ | | | | √ | √ | |
| MAINVIEW SYSPROG Services | √ | | | | √ | | √ |
| MAINVIEW VistaPoint | √ | √* | | | | | √ |
| MODEL 300 | √ | | √ | | √ | | √ |
| RESOLVE SRM 5.1 | √ | | | | √ | | |
| RxD2/LINK and RxD2/FlexTools | √ | | | | | | |
| StorageGUARD 3.1.00 | √ | | | | √ | | |
| * #@BDDDEF should be copied only if #@MDDDEF will not be copied. | | | | | | | |

### #@*x*FSET

#@*x*FSET (optional), where *x* is one of the following: C, D, F, I, M, N, or O.

These jobs contain UCLIN statements to define FMIDSETs. The use of FMIDSETs eliminates typing and omission errors, but you may need to delete function IDs from these members for products you have not installed.

Use Table 11 to select the FSET definition jobs that correspond to the specific combination of BMC Software products at your site. For each job selected, perform the following steps:

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.
2. If #@APROCE is copied to a JES procedure library, change BBSMPE to the unique name of your SMP/E JES procedure for BMC Software products.

   If #@APROCE is not in your SMP/E JES procedure library, copy it as an instream procedure after the JOB statement.
3. Delete the FMIDs that you do not need (the ones you noted in Step 5 on page 53).
4. Save your changes.
5. Submit the job.

   **Note:** When you add a new product to an existing zone, you may see an RC=08, indicating the addition of the new product.

After the FSET definition jobs are customized and ran, their member names can be specified in the FORFMID operand in the APPLY (#$A60APL) and ACCEPT (#$70ACT) jobs you run in "#$A70ACT" on page 66.

**Note:** If you do not use FMIDSETs, you must specify the function IDs of ***all*** the functions when the FORFMID operand is required in "#$A60APL" on page 65 and "#$A70ACT" on page 66.

If you are installing multiple products, you need to customize and run the appropriate FSET definition jobs.

**Example**

If you are installing MODEL 300 or MAINVIEW for DB2, customize and run the #@FFSET, #@DFSET and #@MFSET jobs.

Table 11. FSET Definition Job Table

| Products | FSET definition job | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | #@CFSET | #@DFSET | #@FFSET | #@GFSET | #@IFSET | #@MFSET | #@OFSET | #@QFSET | #@VFSET |
| CMF MONITOR | | | | | | √ | | | |
| Command MQ for S/390 | | √ | | | √ | | | √ | |
| DASD ADVISOR | | | | | | √ | | | |
| MAINVIEW AutoOPERATOR | | | | | | | √ | | |
| MAINVIEW for CICS | √ | | | | | | | | |
| MAINVIEW for DB2 | | √ | | | | | | | |
| MAINVIEW for DBCTL | | | | | √ | | | | |
| MAINVIEW for IMSPlex System Manager | | | | | √ | | | | |
| MAINVIEW for IMS Offline Products | | | | | √ | | | | |
| MAINVIEW for IMS Online Products | | | | | √ | | | | |
| MAINVIEW for MQSeries | | √ | | | √ | | | √ | |
| MAINVIEW for MVS | | | | | | √ | | | |
| MAINVIEW for OS/390 | | | | | | √ | | | |
| MAINVIEW SYSPROG Services | | | | | | √ | | | |
| MAINVIEW for UNIX System Services (USS) | | | | | | √ | | | |
| MAINVIEW VistaPoint | | | | | | | | | √ |
| MODEL 300 | | | √ | | | | | | |
| RESOLVE SRM 5.1 | | | | √ | | | | | |
| StorageGUARD 3.1.00 | | | | √ | | | | | |

### #$A60APL

#$A60APL applies all functions and maintenance.

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.

2. If #@APROCE is copied to a JES procedure library, change BBSMPE to the unique name of your JES procedure for BMC Software products.

   If #@APROCE is not in your JES procedure library, copy it as an instream procedure after the JOB statement.

3. Change the BYPASS keyword to take appropriate action for system HOLDs (see Appendix D, "Exception System Modifications (SYSMODs)" on page 117); for example:

   ```
   BYPASS(HOLDSYS(DOC,ACTION))
   ```

   This releases SYSMODs held for documentation and action.

4. If the zones contain only BMC Software products, delete the line that begins with

   ```
   FORFMID
   ```

   and all the lines that follow it up to the line that begins with `CHECK.`

   ***Do not*** delete `CHECK`.

5. Check the output from member #$A12LST (created in "#$A12LST" on page 53) and the output from member #$A14REJ (created in "#$A14REJ" on page 53). Use the SMP/E SELECT operand to select all FMIDs in the FMIDSET that do not appear in either the #$A12LST or the #$A14REJ output.

6. If the zones contain products other than BMC Software products, add the FMIDs you wrote down in "#$A12LST" on page 53 or the equivalent FMIDSET, described in "#@xFSET" on page 62, to the FORFMID parameter on the APPLY statement.

7. Save your changes.

8. Submit #$A60APL twice, once for APPLY checking and once to execute the APPLY.

   **Notes:** A return code of 4 is normal. If the job ends with a higher return, check the output and call your local BMC Software Customer Support representative for assistance.

   The target libraries are defined by product line, not by product. Some products within a product line do not need all the target libraries for that line. For this reason, APPLY might not use some target libraries. You can delete the unused target libraries if you do not plan to install other BMC Software products. However, ***do not delete the distribution libraries at this time;*** they are needed for ACCEPT processing.

### #$A70ACT

#$A70ACT accepts functions, PTFs, and APARs during a new installation.

**Note:** Distribution libraries are defined by product line, not by product. Some products within a product line do not need all the distribution libraries for that line. For this reason, ACCEPT might not use some distribution libraries. You can delete the unused distribution libraries if you do not plan to install other BMC Software products.

1. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.
2. If #@APROCE is copied to a JES procedure library, change BBSMPE to the unique name of your SMP/E JES procedure for BMC Software products.
3. If #@APROCE is not in your JES procedure library, copy it as an instream procedure after the JOB statement.
4. Change the BYPASS keyword to take appropriate action for system HOLDs (see Appendix D, "Exception System Modifications (SYSMODs)" on page 117); for example:

   ```
   BYPASS(HOLDSYS(DOC,ACTION))
   ```

   This releases SYSMODs held for documentation and action.
5. Add the FMIDs you wrote down in "#$A10RCP" on page 52 or the equivalent FMIDSET, described in "#@xFSET" on page 62, to the FORFMID parameter on the ACCEPT statement.
6. Save your changes.
7. Submit #$A70ACT twice, once for ACCEPT checking and once to execute the ACCEPT.

   Accept the functions ***as soon as possible***.

   - If functions have not been previously accepted, the application of future PTFs and functions may require concurrent reapplication of functions (using REDO).
   - The target library data sets must be available, or ACCEPT processing will fail.

     The target library data sets might be archived or deleted if ACCEPT processing is postponed.
   - Accepting functions releases the disk space occupied by the relative file data sets.
   - Functions must be accepted before a PTF can be restored (RESTORE) from the distribution zone in your system.

***Results:*** Your products are downloaded to DASD.

Follow the instructions in Chapter 5, "Customizing the Installed Products" on page 67 to make your products operational.

# Chapter 5. Customizing the Installed Products

After your products are installed, you must customize them to make the basic functions operational. You can customize your products in two ways: AutoCustomization or manual customization.

- AutoCustomization allows you to perform the minimum steps required to make your product operational; see "Using AutoCustomization" on page 67.
- Manual customization allows you to customize your product(s) to best suit your needs; see "Using Manual Customization" on page 72.

## Using AutoCustomization

This section describes the following topics:


- "Overview of AutoCustomization" on page 68
- "Invoking AutoCustomization" on page 68
- "Choosing a Product to Customize" on page 69
- "Browsing a Step" on page 71
- "Selecting a Step" on page 71
- "Exiting AutoCustomization" on page 71


**Note:** If you installed BMC Software products in multiple target and distribution zones, you must run BMC Software AutoCustomization for each set of target libraries and distribution libraries.

## Prerequisites for AutoCustomization

To execute AutoCustomization, you must meet the following prerequisites:

- ISPF/PDF 2.3 or higher
- Access authority as described in "System Requirements" on page 35

For any additional authorization requirements for the product you are customizing, see the books shipped with your product. These books also describe any additional customization that may need to be done to implement optional product functions.

When you complete customization, verify that your product functions are operational by using the product as described in the appropriate reference or user guide for that product.

## Overview of AutoCustomization

AutoCustomization is an interactive, online ISPF dialog provided by BMC Software to customize the installed BMC Software products. AutoCustomization minimizes mistakes, propagates information for shared customization steps, allows you to browse steps before you perform them, and marks each step as it is completed. You can also bypass steps if you prefer to perform the steps manually.

You can get help at any time during AutoCustomization by typing **`HELP`** on the **`COMMAND`** line or pressing the HELP PF key. Requesting help at the first customization panel provides an overview of AutoCustomization.

After you select one or more products, AutoCustomization presents a comprehensive list of sequentially numbered steps you must complete before the product is operational. The number of steps varies depending on the product. Most of the steps are required, but some are optional.

BMC Software *recommends* that you browse all the steps and compile a list of questions or required information prior to selecting steps in AutoCustomization. Having all the information in advance allows you to answer the questions promptly and helps you proceed through the AutoCustomization process in a more efficient manner.

**Note:** Although you can browse steps in any order, you cannot select them in any order. Each step ***must*** be selected, even if it is optional and will be bypassed. Steps must be selected and completed in the order given, because many steps share the information given in previous steps.

When all required steps are marked completed, the product is considered operational. When you return to the product list from the step list, the status of the product changes from UNMODIFIED to OPERATIONAL.

However, if you bypass any required step(s) in the list of numbered steps and then return to the product list, the status of the product is changed to INCOMPLETE and the product is not operational.

Verify that your product functions work properly by using these functions as described in the appropriate book (see the Installation Checklist shipped with your product).

## Invoking AutoCustomization

AutoCustomization is executed online. You do not need to allocate any libraries or modify panels before invoking AutoCustomization. To invoke AutoCustomization:

1. On any ISPF panel COMMAND line, type the following command:

   `TSO EX '`*`hilevel`*`.BBCLIB(BBCUST)'`

2. Press Enter.

3. Supply the high-level qualifier of your target libraries, as requested by AutoCustomization.

4. Press Enter.

   AutoCustomization displays the Product Customization menu, where you can choose a product to customize.

## Choosing a Product to Customize

Figure 4 shows the Product Customization menu.

```
BMC Software ----------- PRODUCT CUSTOMIZATION -------------------- Row 1 of 6
COMMAND ===>                                                  SCROLL ===> HALF

Valid line command:                       Valid primary commands:
S - Select a product for customization    MAINT - Recustomize all products after
    (you may select more than one)                applying SMP maintenance
                                          HELP  - Display an overview of this
  Product                     Status              product customization dialog
-------------------------------------------------------------------------------
  AUTOOPERATOR                INCOMPLETE
  CMF MONITOR                 INCOMPLETE
  INTUNE                      OPERATIONAL
  MAINVIEW Alarm Manager      OPERATIONAL
  MAINVIEW FOR MQSERIES       INCOMPLETE
  MAINVIEW FOR MVS            INCOMPLETE
```

Figure 4. AutoCustomization Product Customization Menu

The Product Customization menu displays a list of your products and the status of each.

To choose a product, complete the following steps:

1. Find the product you want to customize.
2. Place the cursor to the left of the product, type **S** to select that product.
3. Press Enter.

For example, to customize CMF MONITOR using AutoCustomization, begin with the Product Customization menu. Move the cursor to the left of CMF MONITOR (in the Product column). Type **S** and press Enter. AutoCustomization invokes the Product Customization Steps menu for CMF MONITOR.

## Customizing a Product

Figure 5 shows the Product Customization Steps menu for CMF MONITOR.

```
BMC Software --------- PRODUCT CUSTOMIZATION STEPS ---------- ROW 1 TO 15 OF 21
COMMAND ===>                                                   SCROLL ===> HALF
Valid line commands:                                   Step Status(S) Step Flag(F)
S - Select a step. (Must be selected in sequence) ------ ---------
B - Browse a step. (No actions will be taken and     + completed    o optional
                    may be browsed out of sequence)  - bypassed
Step S F  Description                                                   Product
-----------------------------------------------------------------------
 1    +    Specify jobcards and other operational defaults                 SHR
 2    + o  Implement GDDM/PGF support                                      SHR
 3    + o  Determine if support for Katakana terminals is required         SHR
 4    +    Create site data sets for use with MAINVIEW products            SHR
 5    + o  Create historical data sets for use with MAINVIEW products      SHR
 6    +    Add our load library to your system APF list                    SHR
 7    - o  Add our load library to your system linklist                    SHR
 8    +    Create Clist for invoking MAINVIEW products                     SHR
 9    + o  Reload all BBX services                                         SHR
10    +    Create procedure to start the CAS (Coordinating Address Space)  SHR
11    +    Create procedure to start the COMMON STORAGE MONITOR (CSMON)    SHR
12    +    Allocate WKLDFILE and PARMFILE data sets for MVS products       SHR
13    + o  Copy sample CMF MONITOR parameter members from BBPARM to UBBPARM CMF
14    + o  Copy sample CMF Online screen definitions from BBSAMP to SBBSDEF CMF
15    + o  Assemble and link the JES offsets CSECT                         CMF
```

Figure 5. Product Customization Steps Menu

Several steps are listed on the left side of the screen. To the right of each step number is the status indicator. The status of each step is indicated by a plus sign (+) for the steps that were completed during AutoCustomization, or by a minus sign (-) for a step that was bypassed. The status indicator is blank initially. The indicator changes to a minus sign (-) if the step is selected but bypassed. The indicator changes to a plus sign (+) when the step is completed.

To the right of the status indicator is a flag indicator (o) for optional steps.

On the far right of the screen is the Product step indicator. This indicates whether the step is shared (SHR) or product-specific. In Figure 5, Step 1–12 are shared steps (indicated by SHR under Product). Step 13–15 are product-specific steps (indicated by the product name abbreviation under Product).

**Note:** If you have not used AutoCustomization, or if you are unsure about a step, use the B line command to browse the step first.

## Browsing a Step

You can browse a step to decide if you need more information prior to selecting the step for installation. You can browse steps in any order; there are no sequential restrictions.

To browse a step:

1. Move the cursor to the step you want to browse.
2. Type **B**.
3. Press Enter.

AutoCustomization displays a screen containing information specific to that product. Each step may have several screens, each with questions centered around customizing the installation of the product.

## Selecting a Step

Selecting a step is different from browsing a step. Each step must be selected in order. Because the information given in one step may be used in a later step, it is necessary to complete each step before continuing to the next.

To select a step:

1. Move the cursor to the step you want to select.
2. Type **S**.
3. Press Enter.

After the step has been completed (or bypassed), AutoCustomization returns to the list of steps. The status of the step just selected is updated to reflect whether it was completed or bypassed.

## Exiting AutoCustomization

You may need to exit AutoCustomization prior to completing the installation of a product (or products). The status of each step remains as you left it until you return and continue AutoCustomization. The status of the product on the Product Customization menu changes to INCOMPLETE.

When all required steps are marked completed, the product is considered operational and the status of the product changes from UNMODIFIED to OPERATIONAL.

Perform any other necessary steps for implementing each specific product and then verify that the product functions work properly by using them as described in the appropriate book(s).

## Using Manual Customization

Manual customization is discussed in the documents and files listed in Table 12, which shows you where to find manual customization instructions for implementing product-specific functions.

## Prerequisites for Manual Customization

To execute manual customization, you need access authority as described in "System Requirements" on page 35.

For any additional authorization requirements for the product you are customizing, see the books shipped with your product. These books also describe any additional customization that may need to be done to implement optional product functions.

When you complete customization, verify that your product functions are operational by using the product as described in the appropriate reference or user guide for that product.

Table 12. Finding Manual Customization Instructions

| For manual customization | See |
|---|---|
| CMF MONITOR 5.1 and above<br>Command MQ for S/390<br>MAINVIEW AutoOPERATOR<br>MAINVIEW for CICS<br>MAINVIEW for DB2<br>MAINVIEW for DBCTL<br>MAINVIEW for MQSeries<br>MAINVIEW for IMS<br>MAINVIEW for IMSPlex System Manager<br>MAINVIEW for IP<br>MAINVIEW for MQSeries<br>MAINVIEW for MVS<br>MAINVIEW for OS/390<br>MAINVIEW for UNIX System Services<br>MAINVIEW for VTAM<br>MAINVIEW Solutions<br>MAINVIEW SYSPROG Services<br>MAINVIEW VistaPoint | The *MAINVIEW Implementation Guide* and the customization guide(s) shipped with your product(s) |
| MAINVIEW Explorer | The *MAINVIEW Explorer Implementation and User Guide* |
| MODEL 300 | *hilevel*.BBILIB(@$FINDEX) |
| DASD ADVISOR | *hilevel*.BBILIB(@$MINDEX**)** |
| MAINVIEW Alarm Manager | The *MAINVIEW Alarm Manager User Guide* |
| MAINVIEW Alternate Access | The *MAINVIEW Alternate Access Implementation and User Guide*<br><br>**Note:** Make sure that your product customization is complete before performing manual customization for the MAINVIEW Alternate Access component. |
| InTune | The *InTune User Guide* |
| RESOLVE SRM 5.1 | The RESOLVE SRM *Implementation and Customization Guide* |
| RxD2/FlexTools<br>RxD2/LINK | The *RxD2 User Guide* |
| StorageGUARD | The *StorageGUARD User Guide* |

# Chapter 6. Preparing for SMP/E Maintenance

BMC Software provides sample jobs that are one-time edit preparation tasks for SMP/E maintenance. When you complete these tasks, you can apply BMC Software maintenance as it becomes available.

## Preparing AIM-Installed Products for Maintenance

1. Browse member AIMINST3 in the *hilevel*`.INSTCNTL` library.

   Depending on the products installed, this member may or may not contain additional JCL.

   - If this member is empty, your installation is now complete.
   - If this member is not empty, submit the JCL for execution to complete the remaining SMP installation steps. Do this as soon as possible after finishing customization.

2. Member AIMINSTC of *hilevel*`.AIM.INSTCNTL` contains JCL to compress your product libraries to free lost space. You can submit this JCL at your convenience.

3. Member AIMINSTM of *hilevel*`.INSTCNTL` may contain JCL to move your product libraries to a production system.

   **Note:** This step is triggered based on choices you made during installation. If you supplied values for the high-level qualifiers and other information, the AIM install program created member AIMINSTM, which contains the JCL necessary to move your product libraries to production.

   You can submit this JCL at your convenience.

4. Browse the *hilevel*`.DOC` library to see if there are documentation updates for the products you installed. You can print these updates and insert them into the manuals in the appropriate places.

5. Edit AIMINST2 of *hilevel*`.INSTCNTL` and copy procedure AIMSMP to one of the following:

   - A procedure library
   - The *hilevel*`.JCL.CNTL` members that you will execute to add new products or maintenance:

     – #$A10RCP (RECEIVEs functions from a product tape)
     – #$A30LST (lists HOLDDATA)
     – #$A90CN1 (RECEIVEs service data from a candidate tape)
     – #$A90CN2 (APPLYs selected candidate PTFs and their prerequisites)
     – #$A20RCS (RECEIVEs service data from a BBCUM/BBPUT tape)
     – #$A60APL (APPLYs BBCUM/BBPUT service, as well as functions)
     – #$A80ACT (ACCEPTs service)

     Edit the above members and do the following:

     a) Supply a valid jobcard.

     b) Change all occurrences of BBSMPE to AIMSMP.

c) If you did not copy AIMSMP to a JES procedure library, copy it after the JOB statement.

***Results***

When you complete the above tasks, your products will be ready for service. You can apply service as it becomes available (see Chapter 7, “Applying SMP/E Maintenance” on page 77).

# Chapter 7. Applying SMP/E Maintenance

**Important**

You must complete all steps in Chapter 6, “Preparing for SMP/E Maintenance” on page 75 before you apply maintenance.

After you have followed the instructions in Chapter 6, “Preparing for SMP/E Maintenance” on page 75, your AIM- or SMP/E-installed products are ready for maintenance whenever it becomes available. To apply maintenance, use the sample jobs from *hilevel*.JCL.CNTL that you edited and saved in preparation for maintenance. The instructions for using these jobs are in the sections that follow.

## Applying Maintenance with SMP/E

Maintenance is applied to your products by using the RECEIVE and APPLY *hilevel*.JCL.CNTL members you edited previously (see Chapter 6, “Preparing for SMP/E Maintenance” on page 75).

***Instructions:***

1. Obtain the most recent Technical Bulletins for your products by accessing the BMC Software Web site. The Technical Bulletins may contain information made available since your maintenance tape was produced. For information on accessing the Web site, see “Customer Support” on page iii.

2. If the Technical Bulletins ***do not*** indicate exception SYSMOD HOLD data, continue to Step 4 on page 78 for #$A20RCS or #$A90CN1.

   If the Technical Bulletins ***do*** indicate exception SYSMODs:

   a. Create an FB/80 data set.

   b. Use the following MCS statements to enter exception SYSMOD HOLD data in the FB/80 data set.

```
++HOLD(_______)
FMID(_______)
DATE(_____)
ERROR REASON(_______)
COMMENT(_____________________________________________________).
```

3. Use *hilevel*.JCL.CNTL member #$A22HLD to receive HOLD statements that are stored in your data set.

   a. Globally change **????????** to the name of your data set for HOLD data.

   b. Save your changes.

   c. Submit the job to receive HOLD data obtained from Customer Support (see Step 1).

   For more information about exception SYSMODs and HOLD data, see Appendix D, “Exception System Modifications (SYSMODs)” on page 117.

4. To receive maintenance data for both BBCUM or BBPUT (cumulative maintenance or program update tapes) and BBCAND (candidate PTFs, APARs, and HOLD data), edit the following:

   - For BBCUM or BBPUT, edit #$A20RCS.
   - For BBCAND, edit #$A90CN1.

     **Note:** Because the maintenance tape includes maintenance for all BMC Software products, the output may include ++VER messages that indicate maintenance for other products was not received. Therefore, the submitted job will get diagnostic messages with a step return code of 4. These messages ***do not*** require any action.

   a. Change **TAPE1** to the tape unit ID.

   b. Change **VVVVVV** to the serial number of the maintenance tape.

   c. Save your changes.

   d. Submit the job to receive HOLD data, APARs, or PTFs.

For AIM installation:

If the candidate service tape you received also states on the tape label "AIM Installation Programs", you will need to change the tape labels in the JCL in member #$A90CN1. The following table shows the new labels:

| Candidate Service File Names | Default in Member #$A90CN1 | Label to be used if Tape Label says AIM |
|---|---|---|
| SERVICE | 1 | 25 |
| APARS | 3 | 26 |
| HOLD | 4 | 27 |
| DOC | 10 | 28 |

If you installed your products using AIM, member CANDREC in your *prefix*.JCL.CNTL can be used instead of #$A90CN1 to RECEIVE the maintenance. The labels in CANDREC have already been altered for compatibility with AIM.

   a. Delete the JOB statement and copy $JOBCARD in its place at the beginning of the member.

   b. If #@APROCE is copied to a JES procedure library (see "#@APROCE" on page 51), change BBSMPE to the name of your SMP JES procedure for BMC Software products.

   c. If #@APROCE is not in your JES procedure library, copy it as an instream procedure after the JOB statement.

   d. SAVE your changes.

5. Edit #$A30LST, which lists HOLD data received from the maintenance tape.

   a. Submit the job to list any SYSMODs that have a HOLD status.

SYSMODs that are held because of errors are automatically released when an APAR or PTF resolves the error. SYSMODS held for documentation or action must be released with the BYPASS keyword in the APPLY JCL at the end of the #$A60APL job.

b. Review the hardcopy listings to determine if any action needs to be taken.

6. Edit #$A35DOC, which contains JCL to print PTF documentation received from the maintenance tape.

   a. Change **TAPE1** to the tape unit ID.

   b. Change **VVVVVV** to the serial number of the maintenance tape.

   c. Save your changes.

   d. Submit the job to print PTF documentation from tape.

   e. Keep the product documentation and insert it into the appropriate book.

7. To apply all functions and maintenance data for BBCUM or BBPUT edit #$A60APL.

   a. Change the BYPASS keyword to take appropriate action for system HOLDs (see Appendix D, “Exception System Modifications (SYSMODs)” on page 117); for example:

      ```
      BYPASS(HOLDSYS(DOC,ACTION))
      ```

   b. Save your changes.

   c. Submit #$A60APL twice, once for APPLY checking and once to execute APPLY.

      This releases SYSMODs held for documentation and action.

8. To apply all functions and maintenance data for BBCAND, edit #$A90CN2.

   a. Replace BPC001 with the ID number(s) of the candidate PTFs to be applied on the APPLY SELECT statement.

   b. Save your changes.

**Important**

If you want to submit #$A90CN2 with an APPLY-CHECK, comment-out the control statements, which REJECTs all BBCAND maintenance not applied. For the actual APPLY, submit the job with the REJECT statement active.

   c. Submit the job to apply APARs and PTFs from a candidate tape.

      #$A90CN2 applies a selected list of PTFs, their prerequisites, and also ***rejects*** all BBCAND maintenance not applied.

9. Edit #$A80ACT, which specifies the distribution zone and accepts PTFs and APARs.

   a. Change the BYPASS keyword to take appropriate action for system HOLDs (see Appendix D, "Exception System Modifications (SYSMODs)" on page 117); for example:

      ```
      BYPASS(HOLDSYS(DOC,ACTION))
      ```

   b. Save your changes.

   c. Submit #$A80ACT twice, once for ACCEPT checking and once to execute the ACCEPT.

      **Notes:**

      - PTFs and APARs should be accepted before applying the next maintenance tape.
      - Accepting PTFs and APARs removes them from the SMPPTS data set and makes the space available for additional use (the data set must be compressed).
      - Accepting the PTFs and APARs reduces the effort required to restore future PTFs if and when required.
      - The prerequisite chains will become long and complex if ACCEPT processing is deferred. Periodic ACCEPT processing is simpler.

***Results:*** Upon successful job completion, the latest maintenance is applied to your products. To implement the applied maintenance, it may be necessary to recustomize your product(s). To recustomize those portions of your product setup to which maintenance was applied, follow the instructions in "Implementing Maintenance" on page 81, or repeat the appropriate steps in the manual customization procedures you used when you tailored your product(s) originally.

## Implementing Maintenance

This section outlines procedures you may need to follow after applying SMP/E maintenance.

## For AutoCustomization

If you used AutoCustomization to make your products operational, follow the instructions below to implement maintenance.

1. Invoke AutoCustomization as described in Chapter 7, "Using AutoCustomization" on page 67.
2. In the line command field of the main AutoCustomization panel listing the BMC Software products, type

   **MAINT**

If additional steps are necessary, another panel appears; follow the steps shown.

If a blank screen appears, no additional steps are necessary; your products are ready for use.

## For MAINVIEW Products that Use a CAS Subsystem

If you applied a PTF, yet the symptom persists, you may need to restart the CAS. Some PTFs require that the CAS be recycled before their code can take effect.

A new feature of MAINVIEW products that run in the windows environment (BBI 3) is to speed up the initialization code. In order to do this, code is loaded into Common (a common component of the windows environment base code) by the CAS for use by PAS, CAS, and TSO address spaces. If your PTF is on a module that is in Common, the CAS will need to be restarted in order to become active. Most commonly used routines, including the InfoMgr display code, are in this category.

**Important**

The CAS must be cold started before the introduced changes of the PTF can take effect.

# Appendix A. SMP/E Tape Format

All BMC Software SMP/E product tapes are 3480 cartridge (9-track 6250 or 1600 BPI magnetic tape can be requested) and use standard labels. The file format is

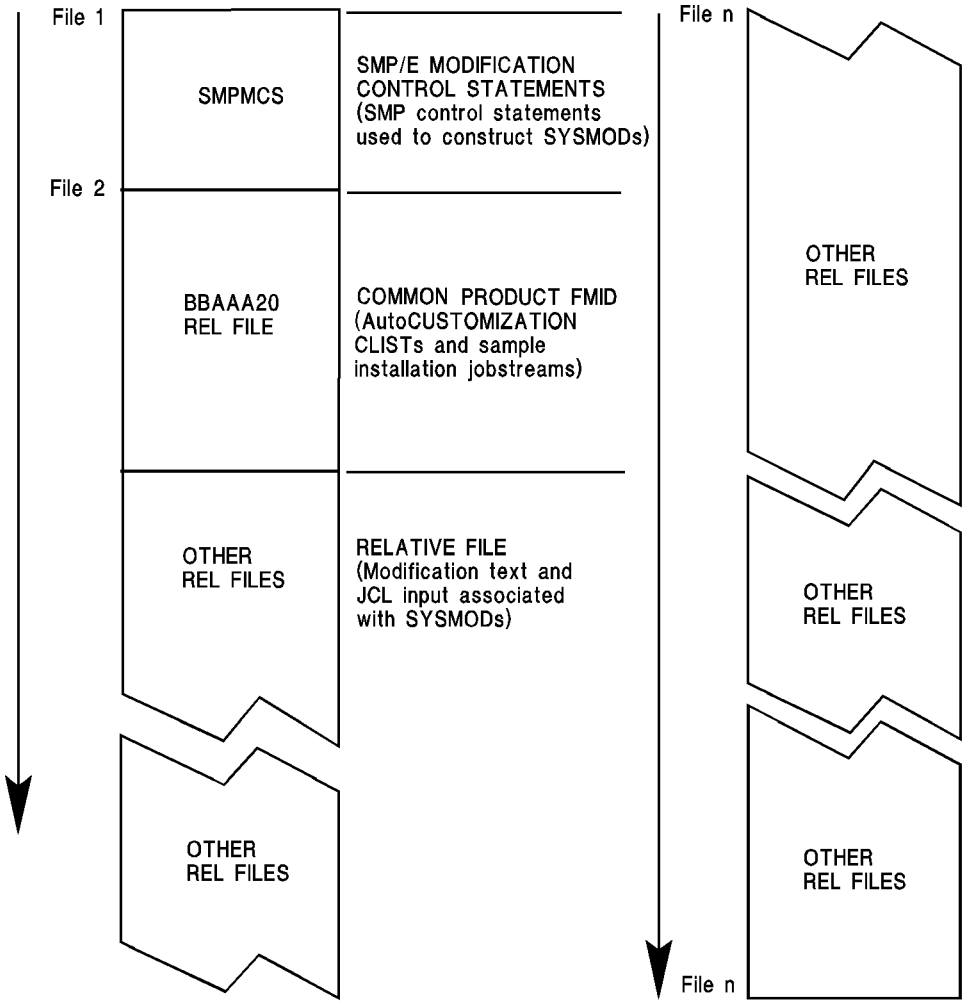


Figure 6. SMP/E Tape Format

# Appendix B. Maintenance Tape Format

All BMC Software maintenance tapes are 3480 cartridge (9-track 6250 or 1600 BPI magnetic tape can be requested) and use standard labels. The file format for all maintenance tapes is

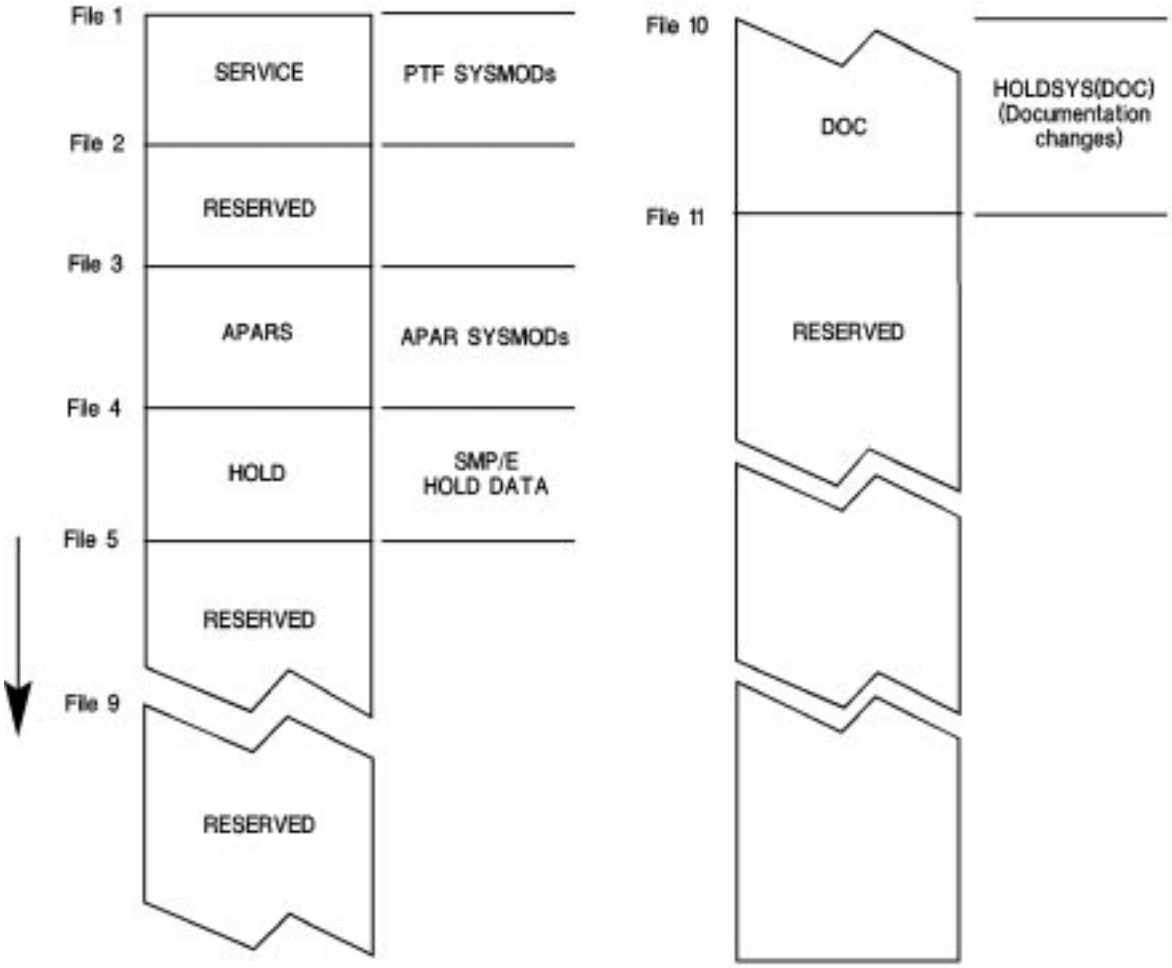


Figure 7. Maintenance Tape Format

# Appendix C. Product Libraries and SMP/E FMIDs

This appendix contains two reference tables. Table 13 lists the products and shows the FMIDs (function modification IDs) for each product. Table 14 on page 103 lists the product target libraries and distribution libraries allocated to each product during installation.

More information about individual FMIDs is located in the FSET members listed in Table 11 on page 64. It should be understood that these printed FMID sets may be out of date. Therefore, every time you apply maintenance, you should check or rerun the list online to make it current.

## Product FMIDs

Table 13 contains an alphabetized list of BMC Software products and the corresponding FMIDs.

Table 13. Product-to-FMID Cross-Reference List

| Product | FMIDs |
|---|---|
| CMF MONITOR 5.3.02 | BBAAA20<br>BBBBX16<br>BBGAD41<br>BBMCA53<br>BBMCH53<br>BBMC253<br>BBMCX53<br>BBMDA20<br>BBMDX20<br>BBPCM53<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYAB54<br>BBYDZ26<br>BBYZZ33<br>LSCR50I |
| CMF MONITOR 5.3.01 | BBAAA20<br>BBBBX16<br>BBGAD41<br>BBMCA53<br>BBMCH53<br>BBMC153<br>BBMCX53<br>BBMDA20<br>BBMDX20<br>BBPCM53<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYAB54<br>BBYDZ26<br>BBYZZ33<br>LSCR50I |

Table 13. Product-to-FMID Cross-Reference List (Continued)

| Product | FMIDs |
|---|---|
| CMF MONITOR 5.2.03 | BBAAA20<br>BBBBX16<br>BBMCA52<br>BBMCH52<br>BBMCL52<br>BBMCX52<br>BBMDA20<br>BBMDX20<br>BBPCM52<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYAB52<br>BBYDZ24<br>BBYZB33<br>BBYZX33<br>BBYZZ33<br>LSCR50I |
| Command MQ for S/390 2.0 | BBAAA20<br>BBBBX16<br>BBHZZ11<br>BBIIS25<br>BBISS26<br>BBLAG20<br>BBLBQ11<br>BBLMQ20<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYZB33<br>BBYZX33<br>BBYZZ33<br>LSCR50I |
| Command MQ for S/390 3.0 | BBAAA20<br>BBBBX16<br>BBHZZ11<br>BBIIS25<br>BBISS26<br>BBLAG30<br>BBLBQ11<br>BBLMQ30<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYZB33<br>BBYZX33<br>BBYZZ33<br>LSCR50I |

Table 13. Product-to-FMID Cross-Reference List (Continued)

| Product | FMIDs |
|---|---|
| DASD ADVISOR 2.4.01 | BBAAA20<br>BBALC20<br>BBBBX16<br>BBMCA52<br>BBMCH52<br>BBMCX52<br>BBMDA20<br>BBMDV24<br>BBMDX20<br>BBMRT16<br>BBMWB12<br>BBVVT31<br>BBYDZ24<br>BBYZX33<br>LSCR50I |
| DASD ADVISOR 2.4.02 | BBAAA20<br>BBALC20<br>BBBBX16<br>BBMCA53<br>BBMCH53<br>BBMCX53<br>BBMDA20<br>BBMDV24<br>BBMDX20<br>BBMRT16<br>BBMWB12<br>BBVVT31<br>BBYDZ26<br>BBYZX33<br>LSCR50I |
| InTune 2.1.00 and 2.2.00 | BBAAA20<br>BBMTN21<br>BBGAD41 |
| MAINVIEW Alarm Manager 1.1.00 | BBAAA20<br>BBHZZ11<br>BBYZX33<br>LSCR50I |
| MAINVIEW Alternate Access 3.1.00 | BBAAA20<br>BBVVT31 |
| MAINVIEW AutoOPERATOR 5.1.01<br>(for CICS, IMS, MQSeries, MVS, Access NV, and TapeSHARE) | BBAAA20<br>BBBBX16<br>BBIIS25<br>BBISS26<br>BBMRX32<br>BBOAO51<br>BBVVT31<br>BBZCB21<br>BBZIB11 |

Table 13. Product-to-FMID Cross-Reference List (Continued)

| Product | FMIDs |
|---|---|
| MAINVIEW AutoOPERATOR 5.1.00<br>(for CICS, IMS, MQSeries, MVS, Access NV, and TapeSHARE) | BBAAA20<br>BBBBX16<br>BBIIS25<br>BBISS26<br>BBMRX31<br>BBOAO51<br>BBVVT31<br>BBZCB11<br>BBZIB11 |
| MAINVIEW Explorer 1.3.00 | None<br>(FMID BBTES13 and BBTTC11 included with client product) |
| MAINVIEW FOCAL POINT 1.2.00 | BBAAA20<br>BBIIS25<br>BBISS26<br>BBVVT31<br>BBWFP12 |
| MAINVIEW for CICS 5.3.01 | BBAAA20<br>BBBBX16<br>BBCBK53<br>BBCIS53<br>BBCMR53<br>BBCR153<br>BBCXT53<br>BBHZZ11<br>BBIIS25<br>BBISS26<br>BBLBQ11<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYZB33<br>BBYZX33<br>BBYZZ33<br>BBZCB11<br>BBZIB11 |

Table 13. Product-to-FMID Cross-Reference List (Continued)

| Product | FMIDs |
|---|---|
| MAINVIEW for CICS 5.4.00 | BBAAA20<br>BBBBX16<br>BBCBK54<br>BBCIS54<br>BBCMR54<br>BBCCL54<br>BBCXT54<br>BBHZZ11<br>BBIIS25<br>BBISS26<br>BBLBQ11<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYZB33<br>BBYZX33<br>BBYZZ33<br>BBZCB21<br>BBZIB11 |
| MAINVIEW for DB2 5.1.00 | BBAAA20<br>BBBBX16<br>BBDDB51<br>BBDDP51<br>BBDDS51<br>BBDDZ51<br>BBHZZ11<br>BBIIS25<br>BBISS26<br>BBLBQ11<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYZB33<br>BBYZX33<br>BBYZZ33<br>LSCR50I |

Table 13. Product-to-FMID Cross-Reference List (Continued)

| Product | FMIDs |
|---|---|
| MAINVIEW for DB2 6.1.00 | BBAAA20<br>BBBBX16<br>BBDDB61<br>BBDDP61<br>BBDDS61<br>BBDDZ61<br>BBHZZ11<br>BBIIS25<br>BBISS26<br>BBLBQ11<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYZB33<br>BBYZX33<br>BBYZZ33<br>LSCR50I |
| MAINVIEW for DBCTL 3.2.00 | BBAAA20<br>BBBBX16<br>BBHZZ11<br>BBIEC32<br>BBIIM32<br>BBIIS25<br>BBISS26<br>BBKWF32<br>BBLBQ11<br>BBLBF11<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYZX33<br>BBYZZ33<br>BBZCB21<br>BBZIB11<br>LSCR50I |
| MAINVIEW for IMSPlex System Manager 3.2.00 | BBAAA20<br>BBHZZ11<br>BBKWF32<br>BBLBQ11<br>BBLBF11<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYZX33<br>BBYZZ33<br>LSCR50I |

Table 13. Product-to-FMID Cross-Reference List (Continued)

| Product | FMIDs |
|---|---|
| MAINVIEW for IMSPlex System Manager 1.1.00 | BBAAA20<br>BBHZZ11<br>BBKWF11<br>BBLBQ11<br>BBLBF11<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYZX33<br>BBYZZ33<br>LSCR50I |
| MAINVIEW for IMS 3.2.00<br>Offline Products<br>IMS PERFORMANCE REPORTER<br>Extensions for DB2 | BBAAA20<br>BBICB32<br>BBIEC32<br>BBIPR32<br>BBZCB21<br>BBZIB21<br>BBIPD32 (Extensions for DB2 only) |
| MAINVIEW for IMS 3.2.00<br>Offline Products<br>IMS TRANSACTION ACCOUNTANT<br>Extensions for DB2 | BBAAA20<br>BBICB32<br>BBIEC32<br>BBIPR32<br>BBZCB21<br>BBZIB11<br>BBIPD32 (Extensions for DB2 only) |
| MAINVIEW for IMS 3.1.00<br>Offline Products<br>IMS PERFORMANCE REPORTER<br>Extensions for DB2 | BBAAA20<br>BBICB31<br>BBIEC31<br>BBIPR31<br>BBZCB11<br>BBZIB21<br>BBIPD31 (Extensions for DB2 only) |
| MAINVIEW for IMS 3.1.00<br>Offline Products<br>IMS TRANSACTION ACCOUNTANT<br>Extensions for DB2 | BBAAA20<br>BBICB31<br>BBIEC31<br>BBIPR31<br>BBZCB11<br>BBZIB11<br>BBIPD31 (Extensions for DB2 only) |
| MAINVIEW for IMS 3.2.00<br>Online Products<br>Extensions for DB2<br>Extensions for IRLM<br>IMS Resource Analyzer<br>IMS Resource Monitor<br>IMS Workload Analyzer<br>IMS Workload Monitor | BBAAA20<br>BBBBX16<br>BBIEC32<br>BBIIM32<br>BBIIS25<br>BBISS26<br>BBVVT31<br>BBZCB21<br>BBZIB11 |

Table 13. Product-to-FMID Cross-Reference List (Continued)

| Product | FMIDs |
|---|---|
| MAINVIEW for IMS 3.1.00<br>Online Products<br>Extensions for DB2<br>Extensions for IRLM<br>IMS Resource Analyzer<br>IMS Resource Monitor<br>IMS Workload Analyzer<br>IMS Workload Monitor | BBAAA20<br>BBBBX16<br>BBIEC31<br>BBIIM31<br>BBIIS25<br>BBISS26<br>BBVVT31<br>BBZCB11<br>BBZIB11 |
| MAINVIEW for IP 1.1.00 | BBAAA20<br>BBBBX16<br>BBNI011<br>BBTES12<br>BBTTC11<br>BBYZB33<br>BBYZX33<br>BBYZZ33<br>BCSS330<br>LSCR50I |
| MAINVIEW for MQSeries 4.0.0 | BBAAA20<br>BBBBX16<br>BBHZZ11<br>BBIIS25<br>BBISS26<br>BBLAG30<br>BBLBQ11<br>BBLHK13<br>BBLMQ30<br>BBLST13<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYZB33<br>BBYZX33<br>BBYZZ33<br>LSCR50I |

Table 13. Product-to-FMID Cross-Reference List (Continued)

| Product | FMIDs |
|---|---|
| MAINVIEW for MQSeries 1.2.00 | BBAAA20<br>BBBBX16<br>BBHZZ11<br>BBIIS25<br>BBISS26<br>BBLBQ11<br>BBLMQ12<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYZB33<br>BBYZX33<br>BBYZZ33<br>LSCR50I |
| MAINVIEW for MVS 2.4.02 | BBAAA20<br>BBBBX16<br>BBHZZ11<br>BBMCL52<br>BBMCX52<br>BBMDX20<br>BBMRS31<br>BBMRX31<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYAA24<br>BBYDZ24<br>BBYZB33<br>BBYZX33<br>BBYZZ33<br>LSCR50I |
| MAINVIEW for OS/390 2.5.02 | BBAAA20<br>BBBBX16<br>BBHZZ11<br>BBMAS32<br>BBMC253<br>BBMCX53<br>BBMDX20<br>BBMRS32<br>BBMRX32<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYAA26<br>BBYDZ26<br>BBYM225<br>BBYZB33<br>LSCR50I |

Table 13. Product-to-FMID Cross-Reference List (Continued)

| Product | FMIDs |
|---|---|
| MAINVIEW for OS/390 2.5.01 | BBAAA20<br>BBBBX16<br>BBHZZ11<br>BBMAS32<br>BBMC153<br>BBMCX53<br>BBMDX20<br>BBMRS32<br>BBMRX32<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYAA26<br>BBYDZ26<br>BBYML26<br>BBYZB33<br>LSCR50I |
| MAINVIEW for UNIX System Services 1.1.00 | BBAAA20<br>BBBBX16<br>BBHZZ11<br>BBMCX53<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYDZ26<br>BBYUL11<br>BBYUX11<br>BBYZZ33<br>LSCR50I |
| MAINVIEW for VTAM 1.1.00 | BBAAA20<br>BBBBX16<br>BBNU011<br>BBTES12<br>BBTTC11<br>BBYZB33<br>BBYZX33<br>BBYZZ33<br>LSCR50I |

Table 13. Product-to-FMID Cross-Reference List (Continued)

| Product | FMIDs |
|---|---|
| MAINVIEW for WebSphere 1.1.00 | BBAAA20<br>BBAPW32<br>BBASC60<br>BBBBX16<br>BBNWB10<br>BBSTMCG<br>BBTES12<br>BBTTC11<br>BBYZB33<br>BBYZX33<br>BBYZZ33<br>LSCR50I |
| MAINVIEW SYSPROG Services 3.2.00 | BBAAA20<br>BBBBX16<br>BBMAS32<br>BBMRS32<br>BBMRX32<br>BBMSL32<br>BBVVT32<br>BBYDZ26<br>BBYZZ33<br>LSCR50I |
| MAINVIEW VistaPoint 1.1.03 | BBAAA20<br>BBBBX16<br>BBLBF11<br>BBLBJ11<br>BBLBQ11<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYZX33<br>BBYZZ33<br>LSCR50I |
| MAINVIEW VistaPoint 1.1.02 | BBAAA20<br>BBBBX16<br>BBLBF11<br>BBLBJ11<br>BBLBP11<br>BBLBQ11<br>BBTES12<br>BBTTC11<br>BBVVT31<br>BBYZX33<br>BBYZZ33<br>LSCR50I |

Table 13. Product-to-FMID Cross-Reference List (Continued)

| Product | FMIDs |
|---|---|
| MODEL 300 3.2.01 | BBAAA20<br>BBALC20<br>BBBBX16<br>BBFLS31<br>BBFMD32<br>BBFWB31<br>BBMCA52<br>BBMCH52<br>BBMCX52<br>BBMDA20<br>BBMDX20<br>BBMWB12<br>BBYDZ24<br>BBYZX33<br>LSCR50I |
| MODEL 300 3.2.02 | BBAAA20<br>BBALC20<br>BBBBX16<br>BBFLS31<br>BBFMD32<br>BBFWB31<br>BBMCA53<br>BBMCH53<br>BBMCX53<br>BBMDA20<br>BBMDX20<br>BBMWB12<br>BBYDZ26<br>BBYZX33<br>LSCR50I |
| RESOLVE SRM 5.1<br>(for EasyHSM, EasyPOOL, EasySMS, StopX37/II, StorageGUARD 4.1.00, SG-Control, SG-Auto, DMS2HSM) | BBAAA20<br>BBASC60<br>BBGAD41<br>BBGCO51<br>BBGEM11<br>BBGPR51<br>BBGSC51<br>BBGSD51<br>BBGSV51 |

Table 13. Product-to-FMID Cross-Reference List (Continued)

| **Product** | **FMIDs** |
|---|---|
| RxD2 2.1.00<br>RxD2 /Flex Tool<br><br><br>RxD2/LINK | BBAAA20<br>BBDFT21<br><br><br>BBAAA20<br>BBDBA21 |
| StorageGUARD 3.1.00 | BBAAA20<br>BBGAD41<br>BBGEM11<br>BBGDI21<br>BBGSD31 |

## Product Target Libraries and Distribution Libraries

Table 14 lists the product target libraries and distribution libraries allocated to a product during installation.

Table 14. Product and Distribution Libraries

| Product | Target library | Distribution library |
|---|---|---|
| CMF MONITOR 5.2.03 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSLIB<br>BBTLIB<br>BBVDEF<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDEF<br>ABBCLIB<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSLIB<br>ABBTLIB<br>ABBVDEF<br>ASACOBM<br>ASACOMM<br>ASACOSM |
| *Command* MQ for S/390 2.0 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSDEF<br>BBSLIB<br>BBTLIB<br>BBVDEF<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDEF<br>ABBCLIB<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSDEF<br>ABBSLIB<br>ABBTLIB<br>ABBVDEF<br>ASACOBM<br>ASACOMM<br>ASACOSM |

Table 14. Product and Distribution Libraries (Continued)

| Product | Target library | Distribution library |
|---|---|---|
| *Command* MQ for S/390 3.0 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSDEF<br>BBSLIB<br>BBTLIB<br>BBVDEF<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDEF<br>ABBCLIB<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSDEF<br>ABBSLIB<br>ABBTLIB<br>ABBVDEF<br>ASACOBM<br>ASACOMM<br>ASACOSM |
| DASD ADVISOR 2.4.01 and 2.4.02 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSLIB<br>BBTLIB<br>BBVDEF<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDF<br>ABBCLIB<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSLIB<br>ABBTLIB<br>ABBVDEF<br>ASACOBM<br>ASACOMM<br>ASACOSM |
| InTune 2.1.00 and 2.2.00 | BBCLIB<br>BBHELP<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROC<br>BBSAMP<br>BBSLIB<br>BBTLIB | ABBCLIB<br>ABBHELP<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROC<br>ABBSAMP<br>ABBSLIB<br>ABBTLIB |

Table 14. Product and Distribution Libraries (Continued)

| Product | Target library | Distribution library |
|---|---|---|
| MAINVIEW AutoOPERATOR 5.1.01<br><br>(for CICS, IMS, MQSeries, MVS, Access NV, and TapeSHARE) | BBCLIB<br>BBCMOD<br>BBHELP<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROC<br>BBPROF<br>BBSAMP<br>BBSLIB<br>BBSRC<br>BBTLIB<br>BBUSER | ABBCLIB<br>AALCMOD<br>ABBHELP<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROC<br>ABBPROF<br>ABBSAMP<br>ABBSLIB<br>ABBSRC<br>ABBTLIB<br>ABBUSER |
| MAINVIEW AutoOPERATOR 5.1.00<br><br>(for CICS, IMS, MQSeries, MVS, Access NV, and TapeSHARE) | BBCLIB<br>BBCMOD<br>BBHELP<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROC<br>BBPROF<br>BBSAMP<br>BBSLIB<br>BBSRC<br>BBTLIB<br>BBUSER | ABBCLIB<br>AALCMOD<br>ABBHELP<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROC<br>ABBPROF<br>ABBSAMP<br>ABBSLIB<br>ABBSRC<br>ABBTLIB<br>ABBUSER |

Table 14. Product and Distribution Libraries (Continued)

| Product | Target library | Distribution library |
|---|---|---|
| MAINVIEW Alarm Manager 1.1.00 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSLIB<br>BBTLIB<br>BBVDEF<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDEF<br>ABBCLIB<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSLIB<br>ABBTLIB<br>ABBVDEF<br>ASACOBM<br>ASACOMM<br>ASACOSM |
| MAINVIEW Alternate Access 3.1.00 | BBCLIB<br>BBLINK<br>BBPARM<br>BBPLIB<br>BBSAMP<br>BBTLIB | ABBCLIB<br>ABBLINK<br>ABBPARM<br>ABBPLIB<br>ABBSAMP<br>ABBTLIB |
| MAINVIEW Explorer 1.3.00 | Libraries included in client product | Libraries included in client product |
| MAINVIEW FOCAL POINT 1.2.00 | BBCLIB<br>BBCMOD<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSLIB<br>BBTLIB | AALCMOD<br>ABBCLIB<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSLIB<br>ABBTLIB |
| **Note:** In addition to the target and distribution libraries shown for MAINVIEW FOCAL POINT 1.2.00, the DDDEF members shown in Table 10 on page 61 document some older target and distribution names that still require DDDEFs for compatibility purposes. Review Table 10 on page 61 to ensure that all DDDEFs are correctly specified. | | |

Table 14. Product and Distribution Libraries (Continued)

| Product | Target library | Distribution library |
|---|---|---|
| MAINVIEW for CICS 5.3.01 and 5.4.00 | BBCLIB<br>BBCMOD<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSLIB<br>BBTLIB | ABBCLIB<br>AALCMOD<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSLIB<br>ABBTLIB |
| MAINVIEW for DB2 5.1.00 and 6.1.00 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSDEF<br>BBSLIB<br>BBTLIB<br>BBVDEF<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDEF<br>ABBCLIB<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSDEF<br>ABBSLIB<br>ABBTLIB<br>ABBVDEF<br>ASACOBM<br>ASACOMM<br>ASACOSM |
| **Note:** In addition to the target and distribution libraries shown for MAINVIEW for DB2, the DDDEF members shown in Table 10 on page 61 document some older target and distribution names that still require DDDEFs for compatibility purposes. Review Table 10 on page 61 to ensure that all DDDEFs are correctly specified. | | |
| MAINVIEW for DBCTL 3.2.00 Extensions for IRLM | BBCLIB<br>BBCMOD<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSLIB<br>BBTLIB | AALCMOD<br>ABBCLIB<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSLIB<br>ABBTLIB |

Table 14. Product and Distribution Libraries (Continued)

| Product | Target library | Distribution library |
|---|---|---|
| **Note:** In addition to the target and distribution libraries shown for MAINVIEW for DBCTL, the DDDEF members shown in Table 10 on page 61 document some older target and distribution names that still require DDDEFs for compatibility purposes. Review Table 10 on page 61 to ensure that all DDDEFs are correctly specified. | | |
| MAINVIEW for IMS 3.2.00<br>IMS PERFORMANCE REPORTER<br>Resource Analyzer*<br>Resource Monitor<br>IMS TRANSACTION ACCOUNTANT<br>Workload Analyzer<br>Workload Monitor<br><br>Extensions for DB2:<br>IMS PERFORMANCE REPORTER<br>IMS TRANSACTION ACCOUNTANT<br>Workload Analyzer<br>Workload Monitor<br><br>Extensions for IRLM:<br>Resource Analyzer<br>Resource Monitor | BBCLIB<br>BBCMOD<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC*<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSLIB<br>BBTLIB<br><br>* The BBMAC and ABBMAC libraries are allocated only for the IMS Resource Analyzer product. | ABBCLIB<br>AALCMOD<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC*<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSLIB<br>ABBTLIB |
| **Note:** In addition to the target and distribution libraries shown for MAINVIEW for IMS, the DDDEF members shown in Table 10 on page 61 document some older target and distribution names that still require DDDEFs for compatibility purposes. Review Table 10 on page 61 to ensure that all DDDEFs are correctly specified. | | |
| MAINVIEW for IMSPlex System Manager 3.2.00 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSDEF<br>BBSLIB<br>BBTLIB<br>BBVDEF<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDEF<br>ABBCLIB<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSDEF<br>ABBSLIB<br>ABBTLIB<br>ABBVDEF<br>ASACOBM<br>ASACOMM<br>ASACOSM |

Table 14. Product and Distribution Libraries (Continued)

| Product | Target library | Distribution library |
|---|---|---|
| **Note:** In addition to the target and distribution libraries shown for MAINVIEW for IMS, the DDDEF members shown in Table 10 on page 61 document some older target and distribution names that still require DDDEFs for compatibility purposes. Review Table 10 on page 61 to ensure that all DDDEFs are correctly specified. | | |
| MAINVIEW for IP 1.1.00 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBHELP<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROC<br>BBPROF<br>BBSAMP<br>BBSDEF<br>BBSLIB<br>BBSRC<br>BBTLIB<br>BBUSER<br>BBVDEF<br>BBVSAM<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDF<br>ABBCLIB<br>ABBHELP<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBROC<br>ABBSAMP<br>ABBSDEF<br>ABBSLIB<br>ABBSRC<br>ABBTLIB<br>ABBUSER<br>ABBVDEF<br>ABBVSAM<br>ASACOBM<br>ASACOMM<br>ASACOSM |
| MAINVIEW for MQSeries 4.0.0 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSDEF<br>BBSLIB<br>BBTLIB<br>BBVDEF<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDEF<br>ABBCLIB<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSDEF<br>ABBSLIB<br>ABBTLIB<br>ABBVDEF<br>ASACOBM<br>ASACOMM<br>ASACOSM |

Table 14. Product and Distribution Libraries (Continued)

| Product | Target library | Distribution library |
|---|---|---|
| MAINVIEW for MQSeries 1.2.00 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSDEF<br>BBSLIB<br>BBTLIB<br>BBVDEF<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDEF<br>ABBCLIB<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSDEF<br>ABBSLIB<br>ABBTLIB<br>ABBVDEF<br>ASACOBM<br>ASACOMM<br>ASACOSM |
| MAINVIEW for MVS 2.4.02 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBHELP<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSLIB<br>BBSRC<br>BBTLIB<br>BBVDEF<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDF<br>ABBCLIB<br>ABBHELP<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSLIB<br>ABBSRC<br>ABBTLIB<br>ABBVDEF<br>ASACOBM<br>ASACOMM<br>ASACOSM |

Table 14. Product and Distribution Libraries (Continued)

| Product | Target library | Distribution library |
|---|---|---|
| MAINVIEW for OS/390 2.5.01 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBHELP<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSLIB<br>BBSRC<br>BBTLIB<br>BBVDEF<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDF<br>ABBCLIB<br>ABBHELP<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSLIB<br>ABBSRC<br>ABBTLIB<br>ABBVDEF<br>ASACOBM<br>ASACOMM<br>ASACOSM |
| MAINVIEW for UNIX System Services 1.1.00 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBHELP<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSLIB<br>BBSRC<br>BBTLIB<br>BBVDEF<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDF<br>ABBCLIB<br>ABBHELP<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSLIB<br>ABBSRC<br>ABBTLIB<br>ABBVDEF<br>ASACOBM<br>ASACOMM<br>ASACOSM |

Table 14. Product and Distribution Libraries (Continued)

| Product | Target library | Distribution library |
|---|---|---|
| MAINVIEW for VTAM 1.1.00 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBHELP<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROC<br>BBPROF<br>BBSAMP<br>BBSDEF<br>BBSLIB<br>BBSRC<br>BBTLIB<br>BBUSER<br>BBVDEF<br>BBVSAM<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDF<br>ABBCLIB<br>ABBHELP<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBROC<br>ABBSAMP<br>ABBSDEF<br>ABBSLIB<br>ABBSRC<br>ABBTLIB<br>ABBUSER<br>ABBVDEF<br>ABBVSAM<br>ASACOBM<br>ASACOMM<br>ASACOSM |
| MAINVIEW for WebSphere 1.1.00 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBHELP<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROC<br>BBPROF<br>BBSAMP<br>BBSDEF<br>BBSLIB<br>BBSRC<br>BBTLIB<br>BBUSER<br>BBVDEF<br>BBVSAM<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDF<br>ABBCLIB<br>ABBHELP<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROC<br>ABBPROF<br>ABBSAMP<br>ABBSDEF<br>ABBSLIB<br>ABBSRC<br>ABBTLIB<br>ABBUSER<br>ABBVDEF<br>ABBVSAM<br>ASACOBM<br>ASACOMM<br>ASACOSM |

Table 14. Product and Distribution Libraries (Continued)

| Product | Target library | Distribution library |
|---|---|---|
| MAINVIEW SYSPROG Services 3.2.00 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBHELP<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSLIB<br>BBSRC<br>BBTLIB<br>BBVDEF<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDF<br>ABBCLIB<br>ABBHELP<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSLIB<br>ABBSRC<br>ABBTLIB<br>ABBVDEF<br>ASACOBM<br>ASACOMM<br>ASACOSM |
| MAINVIEW VistaPoint 1.1.03 and 1.1.02 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSDEF<br>BBSLIB<br>BBTLIB<br>BBVDEF<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDEF<br>ABBCLIB<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSDEF<br>ABBSLIB<br>ABBTLIB<br>ABBVDEF<br>ASACOBM<br>ASACOMM<br>ASACOSM |

Table 14. Product and Distribution Libraries (Continued)

| Product | Target library | Distribution library |
|---|---|---|
| MODEL 300 3.2.01 and 3.2.02 | BBACTDEF<br>BBCLIB<br>BBCMOD<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBLSRV<br>BBMAC<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSLIB<br>BBSRC<br>BBTLIB<br>BBVDEF<br>BBYCOPY<br>SASCOMOD | AALCMOD<br>ABBACTDF<br>ABBCLIB<br>ABBILIB<br>ABBLINK<br>ABBLOAD<br>ABBLSRV<br>ABBMAC<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSLIB<br>ABBSRC<br>ABBTLIB<br>ABBVDEF<br>ASACOBM<br>ASACOMM<br>ASACOSM |
| RESOLVE SRM 5.1<br>(EasyHMS, EasyPOOL, EasySMS StopX3/II,<br>StorageGUARD 4.1.00,<br>SG-Control, SG-Auto,<br>DMS2HSM) | BBCLIB<br>BBLINK<br>BBILIB<br>BBHELP<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBTLIB<br>BBSAMP | ABBCLIB<br>ABBLINK<br>ABBILIB<br>ABBHELP<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBTLIB<br>ABBSAMP |

Table 14. Product and Distribution Libraries (Continued)

| Product | Target library | Distribution library |
|---|---|---|
| RxD2 1.1.00 and 2.1.00<br>RxD2/FlexTools<br>RxD2/LINK | BBCLIB<br>BBCMOD<br>BBILIB<br>BBLINK<br>BBLOAD<br>BBMLIB<br>BBPARM<br>BBPLIB<br>BBPROF<br>BBSAMP<br>BBSLIB<br>BBTLIB | AALCMOD<br>ABBCLIB<br>ABBLINK<br>ABBLOAD<br>ABBMLIB<br>ABBPARM<br>ABBPLIB<br>ABBPROF<br>ABBSAMP<br>ABBSLIB<br>ABBSCR<br>ABBTLIB |
| StorageGUARD 3.1.00 | BBCLIB<br>BBILIB<br>BBMLIB<br>BBHELP<br>BBPARM<br>BBPLIB<br>BBSAMP<br>BBMLIB<br>BBTLIB<br>BBLINK | ABBCLIB<br>ABBILIB<br>ABBMLIB<br>ABBHELP<br>ABBPARM<br>ABBPLIB<br>ABBSAMP<br>ABBMLIB<br>ABBTLIB<br>ABBLINK |

# Appendix D. Exception System Modifications (SYSMODs)

Exception SYSMOD management is described in detail in the IBM manuals, *System Modification Program Extended User's Guide* and *System Modification Program Extended Reference Guide*.

BMC Software can use HOLDs to define a PTF, APAR, or function SYSMOD as a system or error category exception SYSMOD. System-categorized exception SYSMODs require user intervention.

## Error Category

A SYSMOD held for an error should never be released with a BYPASS statement. It is automatically released when either a superseding APAR or PTF resolves the error. If you need to apply a SYSMOD held for error, contact BMC Software Customer Support to determine if a superseding APAR or PTF is available.

## System Category

A SYSMOD being held in system exception status is never released automatically by a superseding APAR or PTF. List the exception SYSMODs to establish the action to be taken. Manual intervention is required. Review the HOLD statement COMMENT field in the listing for any of the following:

| | |
|---|---|
| ACTION HOLDs | Perform any actions described in the COMMENT field before applying the SYSMOD. After SYSMOD application, note any actions required for later use. |
| UCLIN HOLDs | Perform the specified UCLIN processing. Usually, this must be done before the SYSMOD is applied or accepted. |
| DOC HOLDs | SYSMODs are held for DOC when existing documentation is changed or new features are added. Documentation changes are in File 10 on the maintenance tape. You can use the #$A35DOC job described in Chapter 7, "Applying SMP/E Maintenance" on page 77 to print and insert the changes in the appropriate manual for your BMC Software product. You do not need to read the information before applying the SYSMODs. |

See the IBM *System Modification Program Extended Reference Guide* for more information.

After performing the actions required for ACTION and UCLIN HOLDs, add the following parameter to APPLY and ACCEPT statements (see the #$A60APL, #$A70ACT, and #$A80ACT job descriptions in Chapter 7, in the section titled, "Creating the SMP/E Environment" on page 47) to release a SYSMOD held in system exception status.

```
BYPASS(HOLDSYS(DOC,ACTION))
```

**Note:** SYSMODs released with a BYPASS statement are marked by an asterisk (*) in the SYSMOD Status Report after APPLY, ACCEPT, or RESTORE processing. The report also indicates SYSMODs not applied because of HOLDs or missing prerequisites and requisites. Review this report to ensure that SYSMODs were applied or accepted as expected.

## Exception SYSMOD Application with AutoCustomization

If you used AutoCustomization to tailor your products, it must be invoked for maintenance as described in Chapter 7, in the section titled, "Implementing Maintenance" on page 81.

# Appendix E. SMP/E Zone Considerations

All BMC Software products must reside in the SMP/E data sets. This appendix provides information to help you decide whether to install BMC Software products into existing or new zones.

**Caution**

CMF MONITOR Version 5 and MV MANAGER for MVS Version 2 cannot be SMP/E-installed into an existing zone that contains

- CMF MONITOR Version 4 or lower
- MV MANAGER for MVS Version 1 or lower

BMC Software target and distribution library zones can be controlled by an existing global zone. However, BMC Software recommends that you create a new global zone exclusively for BMC Software products. The $$A10GBL member of prefix.JCL.CNTL, described in "Creating the SMP/E Environment" on page 47, can be used to create a new global zone. If you use an existing global zone, you must add SREL(BOOL) to these zones to RECEIVE, APPLY, and ACCEPT BMC Software functions and maintenance (see $$A42REL in "Creating the SMP/E Environment" on page 47).

## Creating Target and Distribution Zones

The $$A20CSI member of *prefix*.JCL.CNTL, described in "Creating the SMP/E Environment" on page 47, can be used to create a new target zone and distribution zone for BMC Software products. If you create these new target and distribution zones, you must define them to the global zone (see $$A40REL in "Creating the SMP/E Environment" on page 47).

## Using Existing Target and Distribution Library Zones

**Caution**

Be careful when moving to a new release level of any product in this environment. Installing a new level for one product deletes a previous level that may be required by another BMC Software product.

If you want to install a second or additional product in a zone with another BMC Software product, you should consider the following:

- Do the products have common components at the same release level?
- Do you want SMP/E zones to be shared so that the products are in common target libraries?
- What are the storage requirements for the other products?

  When zones are shared by BBI-based products, the total space requirement is approximately the same as for any one of them.

If zones are shared, you can also consider the following benefits:

- There is only one copy of the shared functions to maintain.
- PTFs need to be applied to common functions only once. Maintenance applied to fix a problem in one product with common components upgrades the maintenance level of all products.
- Your target libraries include all common BMC Software products. Users can access multiple products automatically.
- The total DASD space allocation is less than it would be if the products were in separate zones.

# Glossary

This glossary defines BMC Software terminology. Other dictionaries and glossaries may be used in conjunction with this glossary.

Since this glossary pertains to BMC Software-related products, some of the terms defined may not appear in this book.

To help you find the information you need, this glossary uses the following cross-references:

| | |
|---|---|
| **Contrast with** | Indicates a term that has a contrary or contradictory meaning. |
| **See** | Indicates an entry that is a synonym or contains expanded information. |
| **See also** | Indicates an entry that contains related information. |

## A

**action.** Defined operation, such as modifying a MAINVIEW window, that is performed in response to a command. See *object.*

**active window.** Any MAINVIEW window in which data can be refreshed. See *alternate window, current window, window.*

**administrative view.** Display from which a product's management tasks are performed, such as the DSLIST view for managing historical data sets. See *view.*

**ALT WIN field.** Input field that allows you to specify the window identifier for an alternate window where the results of a hyperlink are displayed. See *alternate window.*

**Alternate Access.** See *MAINVIEW Alternate Access*.

**alternate form.** View requested through the FORM command that changes the format of a previously displayed view to show related information. See also *form, query.*

**alternate window.** (1) Window that is specifically selected to display the results of a hyperlink. (2) Window whose identifier is defined to the ALT WIN field. Contrast with *current window.* See *active window, window, ALT WIN field.*

**analyzer.** (1) Online display that presents a snapshot of status and activity data and indicates problem areas. (2) Component of CMF MONITOR. See *CMF MONITOR Analyzer.*

**application.** (1) Program that performs a specific set of tasks within a MAINVIEW product. (2) In MAINVIEW VistaPoint, combination of workloads to enable display of their transaction performance data in a single view.

**application trace.** See *trace.*

**ASCH workload.** Workload comprising Advanced Program-to-Program Communication (APPC) address spaces.

**AutoCustomization.** Online facility for customizing the installation of products. AutoCustomization provides an ISPF panel interface that both presents customization steps in sequence and provides current status information about the progress of the installation.

**automatic screen update.** Usage mode wherein the currently displayed screen is refreshed automatically with new data at an interval you specify. Invoked by the ASU command.

## B

**batch workload.** Workload consisting of address spaces running batch jobs.

**BBI.** Basic architecture that distributes work between workstations and multiple MVS targets for BMC Software MAINVIEW products.

**BBI-SS PAS.** See *BBI subsystem product address space.*

**BBI subsystem product address space (BBI-SS PAS).**

MVS subsystem address space that manages communication between local and remote systems and that contains one or more of the following products:

- Command MQ for S/390
- MAINVIEW AutoOPERATOR
- MAINVIEW for CICS
- MAINVIEW for DB2
- MAINVIEW for DBCTL
- MAINVIEW for IMS
- MAINVIEW for MQSeries
- MAINVIEW VistaPoint (for CICS, DB2, and IMS workloads)

**BBPARM.** See *parameter library.*

**BBPROC.** See *procedure library.*

**BBPROF.** See *profile library.*

**BBSAMP.** See *sample library.*

**BBV.** See *MAINVIEW Alternate Access*.

**BBXS.** BMC Software Subsystem Services. Common set of service routines loaded into common storage and used by several BMC Software MAINVIEW products.

**border.** Visual indication of the boundaries of a window.

**bottleneck analysis.** Process of determining which resources have insufficient capacity to provide acceptable service levels and that therefore can cause performance problems.

# C

**CAS.** Coordinating address space. One of the address spaces used by the MAINVIEW windows environment architecture. The CAS supplies common services and enables communication between linked systems. Each MVS image requires a separate CAS. Cross-system communication is established through the CAS using VTAM and XCF communication links.

**CFMON.** See *coupling facility monitoring.*

**chart.** Display format for graphical data. See also *graph.*

**CICSplex.** User-defined set of one or more CICS systems that are controlled and managed as a single functional entity.

**CMF MONITOR.** Comprehensive Management Facility MONITOR. Product that measures and reports on all critical system resources, such as CPU, channel, and device usage; memory, paging, and swapping activity; and workload performance.

**CMF MONITOR Analyzer.** Batch component of CMF MONITOR that reads the SMF user and 70 series records created by the CMF MONITOR Extractor and/or the RMF Extractor and formats them into printed system performance reports.

**CMF MONITOR Extractor.** Component of CMF that collects performance statistics for CMF MONITOR Analyzer, CMF MONITOR Online, MAINVIEW for MVS, and RMF postprocessor. See *CMF MONITOR Analyzer, CMF MONITOR Online, MAINVIEW for MVS*.

**CMF MONITOR Online.** Component of CMF that uses the MAINVIEW window interface to present data on all address spaces, their use of various system resources, and the delays that each address space incurs while waiting for access to these resources. See *CMF MONITOR, MAINVIEW for MVS.*

**CMF Type 79 API.** Application programming interface, provided by CMF, that provides access to MAINVIEW SMF-type 79 records.

**CMFMON.** Component of CMF MONITOR that simplifies online retrieval of information about system hardware and application performance and creates MAINVIEW SMF-type 79 records.

The CMFMON *online facility* can be used to view data in one or more formatted screens.

The CMFMON *write facility* can be used to write collected data as MAINVIEW SMF-type 79 records to an SMF or sequential data set.

**CMRDETL.** MAINVIEW for CICS data set that stores detail transaction records (type 6E) and abend records (type 6D). Detail records are logged for each successful transaction. Abend records are written when an abend occurs. Both records have the same format when stored on CMRDETL.

**CMRSTAT.** MAINVIEW for CICS data set that stores both CICS operational statistic records, at 5-minute intervals, and other records, at intervals defined by parameters specified during customization (using CMRSOPT).

**column.** Vertical component of a view or display, typically containing fields of the same type of information, that varies by the objects associated in each row.

**collection interval.** Length of time data is collected. See also *delta mode, total mode.*

**command delimiter.** Special character, usually a **;** (semicolon), used to stack commands typed concurrently on the COMMAND line for sequential execution.

**COMMAND line.** Line in the control area of the display screen where primary commands can be typed. Contrast with *line command column.*

**Command MQ Automation D/S.** Command MQ agents, which provide local proactive monitoring for both MQSeries and MSMQ (Microsoft message queue manager). The Command MQ agents operate at the local node level where they continue to perform functions regardless of the availability of the MQM (message queue manager) network. Functionality includes automatic monitoring and restarts of channels, queue managers, queues and command servers. In cases where automated recovery is not possible, the agents transport critical alert information to a central console.

**Command MQ Automation S/390.** Command MQ component, which monitors the MQM (message queue manager) networks and intercedes to perform corrective actions when problems arise. Solutions include:

- Dead-Letter Queue management
- System Queue Archival
- Service Interval Performance solutions
- Channel Availability

These solutions help ensure immediate relief to some of the most pressing MQM operations and performance problems.

**Command MQ for D/S.** Command MQ for D/S utilizes a true client/server architecture and employs resident agents to provide configuration, administration, performance monitoring and operations management for the MQM (message queue manager) network.

**Command MQ for S/390.** See *MAINVIEW for MQSeries*.

**COMMON STORAGE MONITOR.** Component of MAINVIEW for MVS that monitors usage and reconfigures MVS common storage blocks.

**composite workload.** Workload made up of a WLM workload or other workloads, which are called *constituent workloads.*

**constituent workload.** Member of a composite workload. Constituent workloads in a composite usually belong to a single workload class, but sometimes are mixed.

**contention.** Occurs when there are more requests for service than there are servers available.

**context.** In a Plex Manager view, field that contains the name of a target or group of targets specified with the CONTEXT command. See *scope, service point, SSI context, target context*.

**CONTEXT command.** Specifies either a MAINVIEW product and a specific target for that product (see *target context*) or a MAINVIEW product and a name representing one or more targets (see *SSI context*) for that product.

**control statement.** (1) Statement that interrupts a sequence of instructions and transfers control to another part of the program. (2) Statement that names samplers and other parameters that configure the MAINVIEW components to perform specified functions. (3) In CMF MONITOR, statement in a parameter library member used to identify a sampler in the extractor or a report in the analyzer, or to describe either component's processing requirements to the operating system.

**coupling facility monitoring (CFMON).** Coupling facility views that monitor the activity of your system's coupling facilities.

**CPO.** Customized Product Offering. Delivery and installation technique that allows any combination of BMC Software SMP/E-maintainable products to be distributed on a product tape to a customer and installed quickly. The CPO product tape contains libraries required for product customization and execution, plus SMP distribution libraries and data sets needed for application of SMP maintenance.

**current data.** Data that reflects the system in its current state. The two types of current data are realtime data and interval data. Contrast with *historical data.* See also *interval data and realtime data.*

**current window.** In the MAINVIEW window environment, window where the main dialog with the application takes place. The current window is used as the default window destination for commands issued on the COMMAND line when no window number is specified. Contrast with *alternate window.* See *active window, window*.

## D

**DASD.** Direct Access Storage Device. (1) A device with rotating recording surfaces that provides immediate access to stored data. (2) Any device that responds to a DASD program.

**DASD ADVISOR.** An interactive software tool that diagnoses DASD performance problems and makes recommendations to reduce overall service time. This tool measures and reports on the operational performance of IBM and IBM-compatible devices.

**data collector.** Program that belongs to a MAINVIEW product and that collects data from various sources and stores the data in records used by views. For example, MAINVIEW for MVS data collectors obtain data from MVS services, MVS control blocks, CMF MONITOR Extractor control blocks, and other sources. Contrast with *extractor.*

**delta mode.** (1) In MAINVIEW for DB2 analyzer displays, difference between the value sampled at the start of the current statistics interval and the value sampled by the current analyzer request. See also *statistics interval.* (2) In CMFMON, usage mode wherein certain columns of data reflect the difference in values between one sample cycle and the next. Invoked by the DELta ON command. See also *collection interval, sample cycle, total mode.*

**DMR.** See *MAINVIEW for DB2.*

**DSO.** Data Set Optimizer. CMF MONITOR Extractor component that uses CMF MONITOR Extractor data to produce reports specifying the optimal ordering of data sets on moveable head devices.

## E

**element.** (1) Data component of a data collector record, shown in a view as a field. (2) Internal value of a field in a view, used in product functions.

**element help.** Online help for a field in a view. The preferred term is *field help.*

**Event Collector.** Component for MAINVIEW for IMS and MAINVIEW for DBCTL that collects data about events in the IMS environment. This data is required for Workload Monitor and optional for Workload Analyzer (except for the workload trace service). This data also is recorded as transaction records (X'FA') and program records (X'F9') on the IMS system log for later use by the batch products: Performance Reporter and Transaction Accountant. If the Extensions for DB2 option to IMS PR, IMS TA, IMS WA, or IMS WM is installed, the Event Collector also measures DB2 activity through the Attach facility.

**expand.** Predefined link from one display to a related display. See also *hyperlink.*

**Extensions for DB2.** Additions to MAINVIEW for IMS and MAINVIEW for DBCTL that gather DB2 subsystem activity through the IMS Attach facility. These additions are licensed as options to IMS PR, IMS TA, IMS WA, and IMS WM. No license is required for IMS RA, IMS RM, and MAINVIEW AutoOPERATOR for IMS.

**Extensions for IRLM.** Additions to MAINVIEW for IMS and MAINVIEW for DBCTL that analyze database locking and measure IRLM activity when IRLM is used. These additions are licensed as options to IMS RA and IMS RM.

**extractor.** Program that collects data from various sources and keeps the data control blocks to be written as records. Extractors obtain data from services, control blocks, and other sources. Contrast with *data collector.*

**extractor interval.** See *collection interval.*

## F

**fast path.** Predefined link between one screen and another. To use the fast path, place the cursor on a single value in a field and press Enter. The resulting screen displays more detailed information about the selected value. See also *hyperlink.*

**field.** Group of character positions within a screen or report used to type or display specific information.

**field help.** Online help describing the purpose or contents of a field on a screen. To display field help, place the cursor anywhere in a field and press PF1 (HELP). In some products, field help is accessible from the screen help that is displayed when you press PF1.

**filter.** Selection criteria used to limit the number of rows displayed in a view. Data that does not meet the selection criteria is not displayed. A filter is composed of an element, an operator, and an operand (a number or character string). Filters can be implemented in view customization, through the PARm/QPARm commands, or through the Where/QWhere commands. Filters are established against elements of data.

**fixed field.** Field that remains stationary at the left margin of a screen that is scrolled either right or left.

**FOCAL POINT.** MAINVIEW product that displays a summary of key performance indicators across systems, sites, and applications from a single terminal.

**form.** One of two constituent parts of a view; the other is query. A form defines how the data is presented; a query identifies the data required for the view. See also *query, view.*

**full-screen mode.** Display of a MAINVIEW product application or service on the entire screen. There is no window information line. Contrast with *windows mode.*

## G

**global command.** Any MAINVIEW window interface command that can affect all windows in the window area of a MAINVIEW display.

**graph.** Graphical display of data that you select from a MAINVIEW window environment view. See also *chart.*

## H

**hilevel.** For MAINVIEW products, high-level data set qualifier required by a site's naming conventions.

**historical data.** (1) Data that reflects the system as it existed at the end of a past recording interval or the duration of several intervals. (2) Any data stored in the historical database and retrieved using the TIME command. Contrast with *current data, interval data and realtime data.*

**historical database.** Collection of performance data written at the end of each installation-defined recording interval and containing up to 100 VSAM clusters. Data is extracted from the historical database with the TIME command. See *historical data.*

**historical data set.** In MAINVIEW products that display historical data, VSAM cluster file in which data is recorded at regular intervals.

**hyperlink.** (1) Preset field in a view or an EXPAND line on a display that permits you to

- Access cursor-sensitive help
- Issue commands
- Link to another view or display

The transfer can be either within a single product or to a related display/view in a different MAINVIEW product. Generally, hyperlinked fields are highlighted. (2) Cursor-activated short path from a topic or term in online help to related information. See also *fast path.*

## I

**Image log.** Collection of screen-display records. Image logs may be created for both the BBI-SS PAS and the BBI terminal session (TS).

The BBI-SS PAS Image log consists of two data sets that are used alternately: as one fills up, the other is used. Logging to the BBI-SS PAS Image log stops when both data sets are filled and the first data set is not processed by the archive program.

The TS Image log is a single data set that wraps around when full.

**IMS PERFORMANCE REPORTER (IMS PR).** Offline product that organizes data and prints reports that can be used to analyze IMS performance.

**IMS PR EXTENSIONS for DB2.** Licensed option to the IMS Performance Reporter that provides offline statistical, graphic, and calendar reports about DB2 subsystem activity and requests that are integrated with IMS activity.

**IMS RA EXTENSIONS for DB2.** Additions to the IMS Resource Analyzer that provide online monitoring displays of DB2 region connection and thread status.

**IMS RESOURCE ANALYZER (IMS RA).** Online realtime displays used to analyze IMS resources and determine which are affected by specific workload problems.

**IMS RESOURCE MONITOR (IMS RM).** Online data collection services used to monitor IMS resources and issue warnings when defined utilization thresholds are exceeded.

**IMS RM EXTENSIONS for DB2.** Additions to the IMS Resource Monitor that provide timer-driven data collection of DB2 region connection and threads.

**IMS TA EXTENSIONS for DB2.** Licensed option to the IMS Transaction Accountant that provides integrated accounting of IMS and DB2 activity through the IMS Attach Facility.

**IMS TRANSACTION ACCOUNTANT (IMS TA).** Offline product used to produce cost accounting and user charge-back records and reports.

**IMS WA EXTENSIONS for DB2.** Licensed option to the IMS Workload Analyzer that provides

- Timer-driven workload wait and trace data collection
- Displays of the transaction active and wait time for DB2 processing events
- Trace of DB2 subsystem activity

  The trace is either summarized by DB2 calls and CPU usage for DB2 processing or detailed to include call start, elapsed times, SQL statement numbers, and return codes.

**IMS WORKLOAD ANALYZER (IMS WA).** Online data collection and display services used to analyze IMS workloads and determine problem causes.

**IMS WM EXTENSIONS for DB2.** Licensed option to the IMS Workload Monitor that provides timer-driven data collection of the types and number of calls issued to a DB2 subsystem, DB2 transaction input queue and response time, and average DB2 CPU time per transaction.

**IMS WORKLOAD MONITOR (IMS WM).** Online data collection services used to monitor IMS workloads and issue warnings when defined thresholds are exceeded.

**interval data.** Cumulative data collected during a collection interval. Intervals usually last from 15 to 30 minutes depending on how the recording interval is specified during product customization. Contrast with *historical data.*

**Note:** If change is made to the workloads, a new interval will be started.

See also *current data and realtime data.*

**InTune.** Product for improving application program performance. It monitors the program and provides information used to reduce bottlenecks and delays.

**IRUF.** IMS Resource Utilization File (IRUF). IRUFs can be either detailed (one event, one record) or summarized (more than one event, one record). A detailed IRUF is created by processing the IMS system log through a program called IMFLEDIT. A summarized IRUF is created by processing one or more detailed IRUFs, one or more summarized IRUFs, or a combination of both, through a sort program and the TASCOSTR program. If the Extensions for DB2 option to IMS PR or IMS TA is installed, the IRUF includes data about DB2 calls made through the IMS Attach Facility.

## J

**job activity view.** Report about address space consumption of resources. See *view.*

**journal.** Special-purpose data set that stores the chronological records of operator and system actions.

**Journal log.** Collection of messages. Journal logs are created for both the BBI-SS PAS and the BBI terminal session (TS).

The BBI-SS PAS Journal log consists of two data sets that are used alternately: as one fills up, the other is used. Logging to the BBI-SS PAS Journal log stops when both data sets are filled and the first data set is not being processed by the archive program.

The TS Journal log is a single data set that wraps around when full.

## L

**line command.** Command that you type in the line command column in a view or display. Line commands initiate actions that apply to the data displayed in that particular row.

**line command column.** Command input column on the left side of a view or display. Contrast with *COMMAND line.*

**log edit.** In the MAINVIEW for IMS and MAINVIEW for DBCTL program named IMFLEDIT, function that extracts transaction (X‘FA’) and program (X‘F9’) records from the IMS system log. IMFLEDIT also extracts certain records that were recorded on the system log by IMS. IMFLEDIT then formats the records into a file called the IMS Resource Utilization File (IRUF).

## M

**MAINVIEW.** BMC Software integrated systems management architecture.

**MAINVIEW AutoOPERATOR.** Product that uses tools, techniques, and facilities to automate routine operator tasks and provide online performance monitoring, and that achieves high availability through error minimization, improved productivity, and problem prediction and prevention.

**MAINVIEW Alarm Manager.** Monitor that reads the data elements produced by products in the MAINVIEW window environment and returns SQL-syntactic statements.

**MAINVIEW Alternate Access.** Enables MAINVIEW products to be used without TSO by providing access through EXCP and VTAM interfaces.

**MAINVIEW control area.** In the MAINVIEW window environment, first three lines at the top of the view containing the window information line and the COMMAND, SCROLL, CURR WIN, and ALT WIN lines. The control area cannot be customized and is part of the information display. Contrast with *MAINVIEW display area, MAINVIEW window area*.

**MAINVIEW display area.** See *MAINVIEW window area*.

**MAINVIEW Explorer.** Product that provides access to MAINVIEW products from a Web browser running under Windows. MAINVIEW Explorer replaces MAINVIEW Desktop.

**MAINVIEW for CICS.** Product (formerly MV MANAGER for CICS) that provides realtime application performance analysis and monitoring for CICS system management.

**MAINVIEW for DB2.** Product (formerly MV MANAGER for DB2) that provides realtime and historical application performance analysis and monitoring for DB2 subsystem management.

**MAINVIEW for DBCTL.** Product (formerly MV MANAGER for DBCTL) that provides realtime application performance analysis and monitoring for DBCTL management.

**MAINVIEW for IMS.** Product (formerly MV MANAGER for IMS) that provides realtime application performance analysis and monitoring for IMS management.

**MAINVIEW for IMSPlex System Manager (IPSM).** Online service that provides Single System Image views of resources and bottlenecks for applications across one or more IMS regions and systems.

**MAINVIEW for IP.** Product that monitors OS/390 mission-critical application performance as it relates to IP stack usage. Collected data includes: connections, response time statistics, application availability, application throughput, and IP configuration.

**MAINVIEW for MQSeries.** Delivers comprehensive capabilities for configuration, administration, performance monitoring and operations management for an entire MQM (message queue manager) network.

**MAINVIEW for MVS.** System management application (formerly MV MANAGER for MVS). Built upon the MAINVIEW window environment architecture, it uses the window interface to provide access to system performance data and other functions necessary in the overall management of an enterprise.

**MAINVIEW for OS/390.** System management application (formerly MAINVIEW **for MVS (**prior to version 2.5)). Built upon the MAINVIEW window environment architecture, it uses the window interface to provide access to system performance data and other functions necessary in the overall management of an enterprise.

**MAINVIEW for UNIX System Services.** System management application that allows you to monitor the performance of the Unix System Services from a MAINVIEW window interface.

**MAINVIEW for VTAM.** Product that displays application performance data by application, transaction ID, and LU name. This collected data includes: connections, response time statistics, application availability, and application throughput.

**MAINVIEW for WebSphere.** Product that provides Web monitoring and management for applications integrated with IBM's WebSphere Application Server for OS/390.

**MAINVIEW Selection Menu.** ISPF selection panel that provides access to all MAINVIEW windows-mode and full-screen mode products.

**MAINVIEW VistaPoint.** Product that provides enterprise-wide views of performance. Application and workload views are available for CICS, DB2, IMS, and MVS. Data is summarized at the level of detail needed; e.g., reports may be for a single target, an MVS image, or an entire enterprise.

**MAINVIEW window area.** Portion of the information display that is not the control area and in which views are displayed and windows opened. It includes all but the first three lines of the information display. Contrast with *MAINVIEW control area.*

**monitor.** Online service that measures resources or workloads at user-defined intervals and issues warnings when user-defined thresholds are exceeded.

**MV MANAGER for CICS.** See *MAINVIEW for CICS.*

**MV MANAGER for DB2.** See *MAINVIEW for DB2.*

**MV MANAGER for DBCTL.** See *MAINVIEW for DBCTL.*

**MV MANAGER for IMS.** See *MAINVIEW for IMS.*

**MV MANAGER for MVS.** See *MAINVIEW for MVS.*

**MVALARM.** See *MAINVIEW Alarm Manager.*

**MVCICS.** See *MAINVIEW for CICS.*

**MVDB2.** See *MAINVIEW for DB2.*

**MVDBC.** See *MAINVIEW for DBCTL.*

**MVIMS.** See *MAINVIEW for IMS.*

**MVMQ.** See *MAINVIEW for MQSeries*

**MVMVS.** See *MAINVIEW for OS/390.*

**MVS product address space (PAS).** Address space containing MVS data collectors, including the CMF MONITOR Extractor. Used by MAINVIEW for MVS and CMF MONITOR products. See *PAS.*

**MVScope.** MAINVIEW for MVS application that traces both CPU usage down to the CSECT level and I/O usage down to the channel program level.

**MVVP.** See *MAINVIEW VistaPoint.*

**MVVTAM.** See *MAINVIEW for VTAM.*

## N

**nested help.** Multiple layers of help pop-up windows. Each successive layer is accessed by hyperlinking from the previous layer.

## O

**object.** Anything you can manipulate as a single unit. MAINVIEW objects can be any of the following: product, secondary window, view, row, column, or field.

You can issue an action against an object by issuing a line command in the line command column to the left of the object. See *action.*

**OMVS workload.** Workload consisting of MVS OpenEdition address spaces.

**online help.** Help information that is accessible online.

## P

**parameter library.** Data set comprised of members containing parameters for specific MAINVIEW products or a support component. There can be several versions:

- The distributed parameter library, called BBPARM
- A site-specific parameter library or libraries

  These can be

  – A library created by AutoCustomization, called UBBPARM

  – A library created manually, with a unique name

**PAS.** Product address space. Used by the MAINVIEW products. Contains data collectors and other product functions. See *MVS product address space (PAS), BBI subsystem product address space (BBI-SS PAS).*

**performance group workload.** MVS/SP-defined collection of address spaces. See *service class workload, workload definition.*

**PERFORMANCE MANAGER.** MAINVIEW for CICS online service for monitoring and managing current performance of CICS regions.

**PERFORMANCE REPORTER.** Product component that generates offline batch reports. The following products can generate these reports:

- MAINVIEW for DB2
- MAINVIEW for IMS
- MAINVIEW for CICS

**Plex Manager.** Product through which cross-system communication, MAINVIEW security, and an SSI context are established and controlled. Plex Manager is shipped with MAINVIEW window environment products as part of the coordinating address space (CAS) and is accessible as a menu option from the MAINVIEW Selection Menu.

**pop-up window.** Window containing help information that, when active, overlays part of the window area. A pop-up panel is displayed when you issue the HELP command.

**PRGP workload.** In MVS/SP 5.0 or earlier, or in compatibility mode in MVS/SP 5.1 or later, composite of service classes. MAINVIEW for MVS creates a performance group workload for each performance group defined in the current IEAIPSxx member.

**procedure library.** Data set comprised of members containing executable procedures used by MAINVIEW AutoOPERATOR. These procedures are execute command lists (EXECs) that automate site functions. There can be several versions:

- The distributed parameter library, called BBPROC
- A site-specific parameter library or libraries

  These can be

  – A library created by AutoCustomization, called UBBPROC

  – A library created manually, with a unique name

The site-created EXECs can be either user-written or customized MAINVIEW AutoOPERATOR-supplied EXECs from BBPROC.

**product address space.** See *PAS.*

**profile library.** Data set comprised of members containing profile information and cycle refresh definitions for a terminal session connected to a BBI-SS PAS. Other members are dynamically created by MAINVIEW applications. There can be several versions:

- The distributed profile library, called BBPROF
- A site-specific profile library or libraries

  These can be

  – A library created by AutoCustomization, called SBBPROF

  – A library created manually, with a unique name

The site library is a common profile shared by all site users. The terminal session CLIST creates a user profile automatically if one does not exist; it is called userid.BBPROF, where userid is your logon ID. User profile libraries allow each user to specify unique PF keys, CYCLE commands, target system defaults, a Primary Option Menu, and a unique set of application profiles.

## Q

**query.** One of two constituent parts of a view; the other is form. A query defines the data for a view; a form defines the display format. See also *form, view.*

## R

**realtime data.** Performance data as it exists at the moment of inquiry. Realtime data is recorded during the smallest unit of time for data collection. Contrast with *historical data.* See also *current data and interval data*.

**row.** (1) Horizontal component of a view or display comprising all the fields pertaining to a single device, address space, user, etc. (2) Horizontal component of a DB2 table consisting of a sequence of values, one for each column of the table.

**RxD2.** Product that provides access to DB2 from REXX. It provides tools to query the DB2 catalog, issue dynamic SQL, test DB2 applications, analyze EXPLAIN data, generate DDL or DB2 utility JCL, edit DB2 table spaces, perform security administration, and much more.

## S

**sample cycle.** Time between data samples.

For the CMF MONITOR Extractor, this is the time specified in the extractor control statements (usually 1 to 5 seconds).

For realtime data, the cycle is not fixed. Data is sampled each time you press Enter.

**sample library.** Data set comprised of members each of which contains one of the following:

- Sample JCL that can be edited to perform specific functions
- A macro that is referenced in the assembly of user-written services
- A sample user exit routine

There can be several versions:

- The distributed sample library, called BBSAMP
- A site-specific sample library or libraries

  These can be

  – A library created by AutoCustomization, called UBBSAMP

  – A library created manually, with a unique name

**sampler.** Program that monitors a specific aspect of system performance. Includes utilization thresholds used by the Exception Monitor. The CMF MONITOR Extractor contains samplers.

**SBBPROF.** See *profile library.*

**scope.** Subset of an SSI context. The scope could be all the data for the context or a subset of data within the context. It is user- or site-defined. See *SSI context, target*.

**screen definition.** Configuration of one or more views that have been stored with the SAVEScr command and assigned a unique name. A screen includes the layout of the windows and the view, context, system, and product active in each window.

**selection view.** In MAINVIEW products, view displaying a list of available views.

**service class workload.** MVS- or MAINVIEW for MVS-defined collection of address spaces.

If you are running MVS Workload Manager (WLM) in goal mode, MAINVIEW for MVS creates a service class workload for each service class that you define through WLM definition dialogs.

If you are running MVS 4.3 or earlier, or MVS/SP 5.1 or later with WLM in compatibility mode, MVS creates a performance group workload instead of a service class. See *performance group workload*.

**service objective.** Workload performance goal, specified in terms of response time for TSO workloads or turnaround time for batch workloads. Performance group workloads can be measured by either objective. Composite workload service objectives consist of user-defined weighting factors assigned to each constituent workload. There are no MVS-related measures of service for started task workloads.

**service point.** Specification, to MAINVIEW, of the services required to enable a specific product. Services may be actions, selectors, or views. Each target (e.g., CICS, DB2, or IMS, ) has its own service point.

The PLEX view lists all the defined service points known to the CAS to which the terminal session is connected.

**service request block (SRB).** Control block that represents a routine to be dispatched. SRB mode routines generally perform work for the operating system at a high priority. An SRB is similar to a task control block (TCB) in that it identifies a unit of work to the system. See also *task control block.*

**service select code.** Code entered to invoke analyzers, monitors, and general services. This code is also the name of the individual service.

**session.** Total period of time an address space has been active. A session begins when monitoring can be performed. If the product address space (PAS) starts after the job, the session starts with the PAS.

**SRB.** See *service request block.*

**single system image (SSI).** Feature of the MAINVIEW window environment architecture that allows you to view and perform actions on multiple MVS systems as though they were a single system. The rows of a single tabular view can contain rows from different MVS images.

**SpaceView for MVS.** Suite of products that assist in all phases of MVS storage management. SpaceView consists of components that perform automation, reporting, trend analysis, and error correction for storage management in MVS.

**SSI.** See *single system image.*

**SSI context.** Name created to represent one or more targets for a given product. See *context, target.*

**started task workload.** Address spaces running jobs that were initiated programmatically.

**statistics interval.** For MAINVIEW for DB2, cumulative count within a predefined interval (30-minute default set by the DB2STATS parameter in the distributed BBPARM member BBIISP00) for an analyzer service DELTA or RATE display. Specifying the DELTA parameter displays the current value as the difference between the value sampled by the current analyzer request and the value sampled at the start of the current interval. Specifying the RATE parameter displays the current value by minute (DELTA divided by the number of elapsed minutes).

**summary view.** View created from a tabular view using the Summarize option in view customization. A summary view compresses several rows of data into a single row based on the summarize criteria.

**system resource.** See *object.*

## T

**target.** Entity monitored by one or more MAINVIEW products, such as an MVS image, IMS or DB2 subsystem, CICS region, or related workloads across systems. See *context, scope, SSI context*.

**target context.** Single target/product combination. See *context.*

**TASCOSTR.** MAINVIEW for IMS and MAINVIEW for DBCTL program that summarizes detail and summary IMS Resource Utilization Files (IRUFs) to be used as input to the offline products.

**task control block (TCB).** Address space-specific control block that represents a unit of work that is dispatched in the address space in which it was created. See also *service request block.*

**TCB.** See *task control block*.

**terminal session (TS).** Single point of control for MAINVIEW products, allowing data manipulation and data display and providing other terminal user services for MAINVIEW products. The terminal session runs in a user address space (either a TSO address space or a standalone address space for EXCP/VTAM access).

**TDIR.** See *trace log directory.*

**threshold.** Specified value used to determine whether the data in a field meets specific criteria.

**TLDS.** See *trace log data set.*

**total mode.** Usage mode in CMFMON wherein certain columns of data reflect the cumulative value between collection intervals. Invoked by the DELta OFF command. See also *collection interval, delta mode.*

**trace.** (1) Record of a series of events chronologically listed as they occur. (2) Online data collection and display services that track transaction activity through DB2, IMS, or CICS.

**trace log data set (TLDS).** Single or multiple external VSAM data sets containing summary or detail trace data for later viewing or printing. The trace log(s) can be defined as needed or dynamically allocated by the BBI-SS PAS. Each trace request is assigned its own trace log data set(s).

**trace log directory (TDIR).** VSAM linear data set containing one entry for each trace log data set. Each entry indicates the date and time of data set creation, the current status of the data set, the trace target, and other related information.

**transaction.** Specific set of input data that initiates a predefined process or job.

**TS.** See *terminal session.*

**TSO workload.** Workload that consists of address spaces running TSO sessions.

## U

**UAS.** See *user address space.*

**UBBPARM.** See *parameter library*.

**UBBPROC.** See *procedure library*.

**UBBSAMP.** See *sample library.*

**user address space.** Runs a MAINVIEW terminal session (TS) in TSO, VTAM, or EXCP mode.

**User BBPROF.** See *profile library.*

## V

**view.** Formatted data within a MAINVIEW window, acquired from a product as a result of a view command or action. A view consists of two parts: query and form. See also *form, job activity view, query.*

**view definition.** Meaning of data that appears online, including source of data, selection criteria for data field inclusion and placement, data format, summarization, context, product, view name, hyperlink fields, and threshold conditions.

**view command.** Name of a view that you type on the COMMAND line to display that view.

**view command stack.** Internal stack of up to 10 queries. For each command, the stack contains the filter parameters, sort order, context, product, and timeframe that accompany the view.

**view help.** Online help describing the purpose of a view. To display view help, place the cursor on the view name on the window information line and press PF1 (HELP).

## W

**window.** Area of the MAINVIEW screen in which views and resources are presented. A window has visible boundaries and can be smaller than or equal in size to the MAINVIEW window area. See *active window, alternate window, current window, MAINVIEW window area.*

**window information line.** Top border of a window. Shows the window identifier, the name of the view displayed in the window, the system, the scope, the product reflected by the window, and the timeframe for which the data in the window is relevant. See also *window status field.*

**window number.** Sequential number assigned by MAINVIEW to each window when it is opened. The window number is the second character in the window status field. See also *window status field.*

**window status.** One-character letter in the window status field that indicates when a window is ready to receive commands, is busy processing commands, is not to be updated, or contains no data. It also indicates when an error has occurred in a window. The window status is the first character in the window status field. See also *window information line, window status field.*

**window status field.** Field on the window information line that shows the current status and assigned number of the window. See also *window number, window status.*

**windows mode.** Display of one or more MAINVIEW product views on a screen that can be divided into a maximum of 20 windows. A window information line defines the top border of each window. Contrast with *full-screen mode.*

**WLM workload.** In goal mode in MVS/SP 5.1 and later, a composite of service classes. MAINVIEW for MVS creates a workload for each WLM workload defined in the active service policy.

**workflow.** Measure of system activity that indicates how efficiently system resources are serving the jobs in a workload.

**workload.** (1) Systematic grouping of units of work (e.g., address spaces, CICS transactions, IMS transactions) according to classification criteria established by a system administrator. (2) In MVS, group of service classes within a service definition.

**workload activity view.** Tracks workload activity as the workload accesses system resources. A workload activity view measures workload activity in terms of resource consumption and how well the workload activity meets its service objectives.

**workload definition.** Workload created through the WKLIST view. Contains a unique name, a description, an initial status, a current status, and selection criteria by which address spaces are selected for inclusion in the workload. See *Workload Definition Facility.*

**Workload Definition Facility.** In MAINVIEW for MVS, WKLIST view and its associated dialogs through which workloads are defined and service objectives set.

**workload delay view.** Tracks workload performance as the workload accesses system resources. A workload delay view measures any delay a workload experiences as it contends for those resources.

**workload objectives.** Performance goals for a workload, defined in WKLIST. Objectives may include measures of performance such as response times and batch turnaround times.

# Index

## Symbols


#$A10RCP 52
#$A12LST 53
#$A14REJ 53
#$A20RCS 54
#$A22HLD 44, 54, 77
#$A30LST 55, 79
#$A35DOC 55, 79, 117
#$A50DEF 60
#$A60APL 55, 65, 79
#$A70ACT 66
#$A80ACT 80
#$A90CN2 80
#@ADDS 58
#@ALLOC 57
#@APROCE 51
#@IDF250 61
$$A00IFN 47
$$A10GBL 50, 119
$$A20CSI 49, 50, 119
$$A30SMP 50
$$A40REL 51, 119
$$A42REL 49, 119
++VER messages 78


## A


ABB*xxx*
  *see* distribution, libraries listed by product
ACCEPT 61–66
  APARs 80
  functions 66
  PTFs 80
ACTION HOLD 55, 79, 117
AIM 37
  description 1
APAR
  definition 6
  system HOLDs 79
APPLY 61–65, 79
applying maintenance 77
AutoCustomization 68, 81
  authorization 67
  implementing maintenance 81
  installation consideration 50
  invoking 68
  JES procedure 35
  overview 68
  requirements for 35
  SYS1.PARMLIB 35
AutoOPERATOR*xxx*
  *see* MAINVIEW AutoOPERATOR


## B


BBAAA20 43, 45
  definition 6
BBCAND tape
  applying 77
  description of 4
BBCUM tape
  applying 77
  description of 6
BBPUT tape
  applying 77
  description of 4
BBX 57
BB*xxx*
  *see* target, libraries listed by product
BYPASS statement 65
  system HOLDs 79, 118


## C


calculating DASD storage
  common code estimates 21
  formula 17
CAND tape
  APPLY 77
cataloged procedure 51
CMF MONITOR
  Data Set Allocation Job (ALLOC) 57
  DD Definition Member (DDDEF)
    for SMP/E-packaged products 61
  DD Statement Member (DDS)
    for SMP/E-packaged products 59
  FMID information 90, 91
  FSET definition job 64
  product and distribution libraries 103
  software requirements 12
  virtual storage estimates 25
Command MQ for S/390
  Data Set Allocation Job (ALLOC) 57
  DD Definition Member (DDDEF)
    for SMP/E-packaged products 61
  DD Statement Member (DDS)
    for SMP/E-packaged products 59
  FMID information 91, 97
  FSET definition job 64
  product and distribution libraries 103, 104, 109
common code storage estimates 21
common target libraries 120
creating
  target and distribution zones 119
customizing installed products
  AutoCustomization 67–71
  manual customization 72
  prerequisites 67

## D


DASD ADVISOR
- Data Set Allocation Job (ALLOC) 57
- DD Definition Member (DDDEF)
  - for SMP/E-packaged products 61
- DD Statement Member (DDS)
  - for SMP/E-packaged products 59
- FMID information 92
- FSET definition job 64
- software requirements 12
- virtual storage estimates 25

DASD storage requirements 17
- common code calculation 21
- for AIM-installed products 24

data set allocation jobs 56–57
data set qualifier
- hilevel 45

DB2 Extensions 96, 108
DD definition member
- creating 60
- for SMP/E 60–62

DD Statement Member (DDS) 59
directory blocks 48
disk space required 18–20
distribution 46–51, 103–114
- libraries/zones
  - creating 120
  - libraries listed by product 103–114
  - relating to the global 51

distribution methods 1
DLIB
- *see* distribution, library/zones

DOC HOLD 55, 79, 117


## E


EREP
- definition 6

error HOLDs 117
exception SYSMODs 44, 77, 117
existing zone 46


## F


files
- maintenance tape 87
- SMP/E tape 85

FLASH files
- *see* Technical Bulletins

FMID
- definition 6
- information 90–102

FMIDSET 61
FORFMID 61
FSET 61
functions
- ACCEPT 66
- APPLY 65
- RECEIVE 52–53
- REJECT 53


## G


global zone 46–50
- considerations 119
- creating 50


## H


HELP
- AutoCustomization 68

hilevel data set qualifier 45
HOLDDATA 4, 44, 77
HOLDs
- ACTION 117
- DOC 117
- error 117
- LIST 55
- RECEIVE 54
- UCLIN 117


## I


IEBCOPY 45, 52
implementing maintenance 81
IMSPlex System Manager
- calculating DASD storage 22
- FMIDs 95
- product and distribution libraries 95

installation 1
- considerations 2
- prerequisites 11
- software requirements 12

instream procedure 51
InTune
- Data Set Allocation Job (ALLOC) 57
- DD Definition Member (DDDEF)
  - for SMP/E-packaged products 61
- DD Statement Member (DDS)
  - for SMP/E-packaged products 59
- virtual storage estimates 25, 26


## J


JCL
- allocation of non-VSAM data sets 50
- IEBCOPY 45

JCL.CNTL 45, 46, 47, 77
JES procedure 35


## L


libraries
- creating for SMP/E 43
- distribution and target
  - listed by product 93–114
- product FMIDs 90
- SMP/E target and distribution 49

target and distribution listed by product 103
LIST job step 53

## M

maintenance
APPLY 79
BBCUM 6
existing products 4
maintenance tapes 4
RECEIVE 78
MAINVIEW Alarm Manager
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 92
MAINVIEW Alternate Access
AutoCustomization considerations 35
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 92
virtual storage estimates 26
MAINVIEW AutoOPERATOR
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 93
FSET definition job 64
product and distribution libraries 92, 93
software requirements 16
TapeSHARE 16
virtual storage estimates 27
MAINVIEW Explorer
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 93
MAINVIEW FOCAL POINT
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 93
software requirements 14
virtual storage estimates 27
MAINVIEW for CICS
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 93, 94
FSET definition job 64
MAINVIEW for DB2
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 94, 95
FSET definition job 64
product and distribution libraries 107
software requirements 14
virtual storage estimates 29
MAINVIEW for DBCTL
Data Set Allocation Job (ALLOC) 57, 59
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 95
FSET definition job 64
software requirements 14
virtual storage estimates 30
MAINVIEW for IMS
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 96
FSET definition job 64
software requirements 15
virtual storage estimates 31
MAINVIEW for IMS Offline Products
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
MAINVIEW for IMS Online Products
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
MAINVIEW for IMSPlex System Manager
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 95, 96
FSET definition job 64
software requirements 14
MAINVIEW for IP
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 97
MAINVIEW for MQSeries
Data Set Allocation Job (ALLOC) 57

DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 97, 98
FSET definition job 64
product and distribution libraries 110
software requirements 12, 15
virtual storage estimates 25, 32
MAINVIEW for MVS
calculating DASD storage 21
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 98, 99
FSET definition job 64
product and distribution libraries 110, 111
software requirements 15
virtual storage estimates 32
MAINVIEW for OS/390
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
MAINVIEW for UNIX System Services
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 99
MAINVIEW for VTAM
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 99
product and distribution libraries 112
MAINVIEW for WebSphere
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 100
product and distribution libraries 112
MAINVIEW Solutions
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
MAINVIEW SYSPROG Services
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 100
product and distribution libraries 113
MAINVIEW VistaPoint
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 100
FSET definition job 64
virtual storage estimates 34
manual customization 72
MCS
definition 7
MODEL 300
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 101
FSET definition job 64
software requirements 15
virtual storage estimates 34

## N

naming conventions 7
new SMP/E environment 50
non-VSAM data sets 50

## O

options 1

## P

prerequisites 11
product
distribution 1
information 47
libraries 89
for SMP/E 43
product tape
format
SMP/E 85
RECEIVE 52
PRQ
definition 7
PTFs 4, 43
ACCEPT 66, 80
ACCEPT CHECK 66
APPLY 65, 79
maintenance 77
definition 7
HOLDDATA 54, 79
receiving 77
RECEIVE 52, 54

REJECT 53
RESTORE 66
testing 4
punit 45
PUT tape
APPLY 77
pvol 45


## Q


qualifier
data set 45
high-level 45


## R


RECEIVE 52
ACTION 117
data from CUM tape 54
DOC 79, 117
HOLDDATA 54, 77
UCLIN 117
release level 120
requirements
software 12
system 35
RESOLVE SRM
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 101
FSET definition job 64
virtual storage estimates 34
RESTORE 66
RxD2
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 102
software requirements 16
virtual storage estimates 34


## S


sample installation jobs 8
separate zones 52
considerations 46
service
ACCEPT 80
APPLY 79
BBCAND 4
PTF documentation 79
RECEIVE 77
tape format 87
service level 120
shared zones 46, 120
unloading from tape 120
SMP/E
definition 7
installation procedure 46
load product libraries 52
new SMP/E environment 50
preparing for maintenance 75
product
FMIDs 89
libraries 43
product tape description 1
setup JCL 45
zone considerations 119
SMP/E environment JCL 45–66
maintenance 77
unloading from tape 44
softcopy
disk space requirements 12
software requirements 12–16
CMF MONITOR 12
DASD ADVISOR 12
MAINVIEW FOCAL POINT 14
MAINVIEW for DB2 14
MAINVIEW for DBCTL 14
MAINVIEW for IMS 15
MAINVIEW for IMSPlex System Manager 14
MAINVIEW for IP 15
MAINVIEW for MQSeries 12, 15
MAINVIEW for MVS 15
MODEL 300 15
RxD2 16
SREL(BOOL) 119
StorageGUARD
Data Set Allocation Job (ALLOC) 57
DD Definition Member (DDDEF)
for SMP/E-packaged products 61
DD Statement Member (DDS)
for SMP/E-packaged products 59
FMID information 102
FSET definition job 64
virtual storage estimates 34
SYS1.PARMLIB 35
SYSMOD Status Report 118
SYSMOD-ID
definition 7
SYSMODs 9
definition 7
system HOLDs 44, 55, 65, 117
LIST 78
releasing 65, 66
system requirements 35


## T


tape
BBCUM 6
BBPUT 4
definition 7

format
maintenance 87
SMP/E 85
installation
SMP/E 43
maintenance
types 4
target
libraries/zones
considerations 119
creating 49, 119
listed by product 105–114
Technical Bulletins
applying maintenance 77
obtaining 44
terminology 6
trial 3
TSO user ID 50

## U

UCLIN HOLD 117
UCLIN statements 61
unloading installation JCL 45

## V

virtual storage estimates listed by product 27–34
VistaPoint
*see* MAINVIEW VistaPoint

## Z

zones 46
considerations
existing environment 47
new environment 50
creating
the target and distribution libraries 119
distribution 50, 120
global zone 46–50
target 49, 50, 119

# Notes

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