MAINVIEW®
SYSPROG Services
Customization Guide

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Before you contact BMC Software, have the following information available so that Customer Support 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 other maintenance level such as PUT or PTF
  - — 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

About This Book

This book describes the post-installation customization steps that you need to follow to make SYSPROG Services completely operational at your site. It is intended for systems programmers, data center technicians, or information systems managers responsible for planning the implementation, configuration, or changes to the SYSPROG Services' environment.

Throughout this book, references to OS/390 support also include support for MVS and z/OS.

How This Book Is Organized

This book is organized as follows. In addition, this book contains a glossary of terms and an index.

Chapter	Description
Chapter 1, "Customizing SYSPROG Services"	provides post-installation customization procedures that are required to make the product completely operational at your site
Chapter 2, "Accessing SYSPROG Services"	provides information about accessing SYSPROG Services in TSO, started task, and batch job modes
Chapter 3, "Implementing SAF Security for SYSPROG Services"	provides instructions for implementing the IBM System Authorization Facility (SAF) for SYSPROG Services

Related Documentation

BMC Software products are supported by several types of documentation:

- online and printed books
- online Help
- release notes and other notices

Note: The messages that MAINVIEW SYSPROG Services generates are available online by typing **msg** followed by the message number on any MAINVIEW screen.

In addition to this book and the online help, you can find useful information in the publications listed in the following table. As "Online and Printed Books" on page ix explains, these publications are available on request from BMC Software. You will need information from these sources to complete the SYSPROG Services installation and customization process.

Document	Description
Implementing Security for MAINVIEW Products	explains basic MAINVIEW security, enhanced security, and MAINVIEW Alternate Access security
MAINVIEW Common Customization Guide	provides instructions for manually customizing the MAINVIEW environment for your products
MAINVIEW SYSPROG Services User Guide and Reference	contains information about accessing and invoking SYSPROG Services, and a reference section with details about each service
MAINVIEW Alternate Access Implementation and User Guide	explains how to access MAINVIEW through MAINVIEW Alternate Access
MAINVIEW Installation Requirements Guide	provides information about installation requirements such as software requirements, storage requirements, and system requirements
OS/390 and z/OS Installer Guide	provides information about the installation of BMC Software products on OS/390 and z/OS systems

Online and Printed Books

The books that accompany BMC Software products are available in online and printed formats. Online books are formatted as Portable Document Format (PDF) files. Some online books are also formatted as HTML files.

To Access Online Books

To view any online book that BMC Software offers, visit the Customer Support page of the BMC Software Web site at **http://www.bmc.com/support_home**. You can also access PDF books from the documentation compact disc (CD) that accompanies your product.

Use the free Acrobat Reader from Adobe Systems to view, print, or copy PDF files. In some cases, installing the Acrobat Reader and downloading the online books is an optional part of the product-installation process. For information about downloading the free reader from the Web, go to the Adobe Systems site at **http://www.adobe.com**.

To Request Additional Printed Books

BMC Software provides printed books with your product order. To request additional books, go to **http://www.bmc.com/support_home.**

Online Help

The MAINVIEW SYSPROG Services product includes online Help. This Help service is also available when SYSPROG is operating outside of the MAINVIEW environment.

In the MAINVIEW SYSPROG Services ISPF interface, you can access Help by pressing **PF1** from any ISPF panel.

Release Notes and Other Notices

Printed release notes accompany each BMC Software product. Release notes provide current information such as

- updates to the installation instructions
- last-minute product information

In addition, BMC Software sometimes provides updated product information between releases (in the form of a flash or a technical bulletin, for example). The latest versions of the release notes and other notices are available on the Web at **www.bmc.com/support_home**.

Conventions

This book uses the following general conventions:

Item	Format	Example
information that you are instructed to type	bolded and in Times 10 pt. font	Type **SYSPROG** at the TSO prompt.
specific (standard) keyboard key names	bolded and in Times 10 pt. font	Press **Enter**.
field names, text on a panel	bolded and in Times 10 pt. font	If you specify SYSID=SMF, the SMF identifier in field **SMCASID** is used.
directories, file names, Web addresses, e-mail addresses, option names	bolded and in Times 10 pt. font	The BMC Software home page is at **www.bmc.com**.
view names, commands, nonspecific key names, keywords	every letter capitalized	Use the HELP function key. The workload definition is created using the WKLIST view.
commands that can be shortened	required letters capitalized; other letters in lowercase	To clear the screen, type **RESet**.
code examples, syntax statements, system messages, screen text	Courier font	`BBM.SYSA.SYSPROG.APF.LIST`
emphasized words, new terms, variables	italics	You must run the job on *each* system. Create JCL members and save them in *hilevel*.PROCLIB.

This book uses the following types of special text:

Note: Notes contain important information that you should consider.

Warning! Warnings alert you to situations that could cause problems, such as loss of data, if you do not follow instructions carefully.

Tip: Tips contain information that might improve product performance or that might make procedures easier to follow.

Chapter 1 Customizing SYSPROG Services

After you have installed SYSPROG Services, you need to perform some post-installation customization to make the product completely operational at your site. 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
- manual customization—allows you to customize your products to best suit your needs

Note: BMC highly recommends that you use the AutoCustomization method for customizing your products.

This chapter discusses both methods of customization. The chapter includes the following topics:

AutoCustomization

AutoCustomization is an interactive, online ISPF dialog provided by BMC Software to customize 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 them manually.

Invoking AutoCustomization

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

To invoke AutoCustomization, follow these steps:

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

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

Step 2 Press **Enter**.

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

Step 4 Press **Enter**.

AutoCustomization displays the Product Customization menu.

Step 5 Select SYSPROG Services.

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

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.

For instructions and additional information about using AutoCustomization, refer to the *OS/390 and z/OS Installer Guide*.

Manual Customization

Alternatively, you can customize SYSPROG Services manually. Manual customization is discussed in *MAINVIEW Common Customization Guide*, which includes instructions for implementing product-specific functions.

To execute manual customization, you need access authority as described in *MAINVIEW Common Customization Guide***.**

If you choose to customize SYSPROG Services using the manual customization method, you also need to complete the following steps, which are unique to SYSPROG Services:

Step 1 Obtain authorization for SYSPROG Services as described in "Obtaining Authorization for SYSPROG Services" on this page.

Step 2 Create JCL for running SYSPROG Services as a batch job or started task; see "Creating a Startup Procedure for SYSPROG Services" on page 1-4.

When you complete customization, verify that your product functions are operational by using the product as described in *MAINVIEW* SYSPROG Services *User Guide and Reference*.

Obtaining Authorization for SYSPROG Services

If you plan to run SYSPROG Services under TSO, either from the COMMAND line or from ISPF, you must perform some additional installation steps for SYSPROG Services to obtain authorization.

Authorization can be obtained in one of the following ways:

- Through TSO Service Facility (TSF); see "Obtaining Authorization through the TSO Service Facility" on page 1-4.
- By installing the SYSPROG Services SVC; see "Creating a Startup Procedure for SYSPROG Services" on page 1-4.

Obtaining Authorization through the TSO Service Facility

The TSO Service Facility (TSF) was introduced in TSO/Extension version 2.0. TSF provides a facility that permits unauthorized programs (in ISPF) to call specific APF-authorized commands and programs.

The APF-authorized commands and programs and the programs that can use the TSF interface are defined in the AUTHCMD, AUTHPGM, and AUTHTSF lists in SYS1.PARMLIB member IKJTSO*xx*.

If you are using TSF to obtain authorization for SYSPROG Services, consult Table 1-1 to determine what to add to the list in member IKJTSO*xx*.

Table 1-1 How TSF Users Obtain Authorization to SYSPROG Services

To Authorize SYSPROG Services	Add
under ISPF	PMGLAUTH to the AUTHTSF list
as a program	SYSPROG Services to the authorized program list—AUTHPGM
as a command	SYSPROG Services to the authorized command list—AUTHCMD

Note: The system must be IPLed to activate changes to IKJTSO*xx*.

If your installation uses ACF/2, you might also need to add PMGLAUTH or SYSPROG Services or both to the ACF/2 command limiting table.

Once you have installed SYSPROG Services into an authorized library, you can use the SYSPROG Services AUTHTSO service to add or delete entries from the AUTHCMD, AUTHPGM, and AUTHTSF lists. If SYSPROG Services was not previously added to the appropriate list, you will need to execute SYSPROG Services as a batch job or a started task; in this case SYSPROG Services must reside in an authorized library.

Creating a Startup Procedure for SYSPROG Services

If you want to invoke SYSPROG Services as a started task or batch job, you must create JCL members and save them in *hilevel*.PROCLIB. See Figure 2-1 on page 2-3 for sample JCL to invoke SYSPROG Services as a started task; see Figure 2-2 on page 2-4 for sample JCL to invoke SYSPROG Services as a batch job.

In addition, member @@MRX050 in the BBILIB data set contains sample JCL for executing SYSPROG Services. Modify this JCL to conform to the standards of your site.

Chapter 2 Accessing SYSPROG Services

This chapter outlines considerations for accessing SYSPROG Services in the following modes:

- TSO
- started task
- batch job

For complete information about accessing SYSPROG Services, see *MAINVIEW SYSPROG Services User Guide and Reference*.

This chapter includes the following topics:

Dispatching Priority

Run SYSPROG Services as the highest priority program in your system to ensure that it can be accessed to analyze loops caused by other jobs. The overhead for SYSPROG Services is generally low when you are not entering SYSPROG Services commands. (Exception Monitor samplers and logging services operate continuously and use system resources. On MVS ESA and MVS XA systems, the subsystem [BBX] might operate in the SYSPROG Services address space and collect data used by CMF and other SYSPROG Services sessions.)

Operating SYSPROG Services at a high priority does not affect the performance of other jobs in your system.

Invoking SYSPROG Services in TSO Line Mode

To invoke SYSPROG Services in TSO line mode, type **SYSPROG** at the TSO prompt and press **Enter**. The following message is displayed:

```
AMTIN1I SYSPROG INITIALIZATION, RELEASE 3.2.0
AMT001A SYSPROG
```

You can now issue SYSPROG Services commands at the AMT001A SYSPROG prompt.

To terminate SYSPROG Services, type **END** at the AMT001A SYSPROG prompt.

Note: To access SYSPROG Services in TSO line mode, you need to have '*hilevel*.BMCPSWD' in your LOGON proc or the linklist.

Invoking SYSPROG Services as a Started Task

To make SYSPROG Services a console-startable task, create a JCL member called BAIREJCL in the BBILIB data set, patterning it after the sample shown in Figure 2-1; then place it into *hilevel*.PROCLIB.

Figure 2-1 Sample JCL for SYSPROG Services

```
//SYSPROG    EXEC  PGM=SYSPROG,DPRTY=(15,15)
//STEPLIB    DD   DISP=SHR,DSN=????????.BBLINK    [1]
//BBPARM     DD   DISP=SHR,DSN=????????.UBBPARM   [2]
//LOG        DD   SYSOUT=A   [3]
//TRACK      DD   SYSOUT=A   [4]
//PWSDUMP    DD   SYSOUT=A   [5]
//RESDUMP    DD   SYSOUT=A   [6]
```

Legend

1. The STEPLIB library is not required if the BBLINK data set is in the linklist. If you include a STEPLIB DD statement, the data set must be APF authorized.

2. The BBPARM library defines a partitioned data set that contains optional initialization parameters, Early Warning parameters, and EXEC procedures.

3. (*optional*) LOG defines the default output data set for the LOG service.

4. (*optional*) TRACK defines the default output data set for the TRACK service.

5. (*optional*) PWSDUMP defines a dump data set for diagnostic dumps produced by Early Warning Services (AEWS).

6. RESDUMP defines a dump data set for diagnostic dumps produced by SYSPROG.

Note: You can change the SYSPROG Services library names to correspond to the standards at your site.

To start SYSPROG Services, type

S SYSPROG.*id*

where *id* is the started task identifier.

Invoking SYSPROG Services as a Batch Job

To execute a series of services as a batch job, place SYSPROG Services commands in the JCL shown in Figure 2-2 and submit the job for processing. Output appears in the JES held output queue.

Figure 2-2 Sample Batch Job for SYSPROG Services

```
//SYSPROG    EXEC  PGM=SYSPROG,REGION=1024K,DPRTY=(15,15),PARM='BATCH'
//STEPLIB    DD   DSN=hilevel.BBLINK,DISP=SHR
//BBHELP     DD   DSH=hilevel.BBHELP,DISP=SHR
//BBPARM     DD   DSN=hilevel.BBPARM,DISP=SHR
//SYSABEND   DD   SYSOUT=R
//INTRDR     DD   SYSOUT=R,INTRDR)
//LOG        DD   SYSOUT=R,DCB=BLKSIZE=141
//TRACK      DD   SYSOUT=R,DCB=BLKSIZE=141
//PWSDUMP    DD   SYSOUT=R
//LOGREC     DD   DSN=MVS.LOGREC,DISP=SHR
//SYSPRINT   DD   SYSOUT=R
//SYSIN      DD   *
CSA                 [1]
ASM,MAP             [1]
/*
```

Legend

1. CSA and ASM,MAP are the SYSPROG Services commands and parameters to be executed.

Chapter 3 Implementing SAF Security for SYSPROG Services

This chapter describes the method by which SYSPROG Services accesses your security system. The chapter includes the following topics:

Overview

SYSPROG Services accesses your security system using the IBM System Authorization Facility (SAF) to determine if each service request should be allowed or denied. Your security system, hereafter referred to as the ESM (External Security Manager), makes these decisions based upon the contents of the entity data string that BMC Software passes to ESM and the rules established by your security administrator. Your security administrator will need to develop the rules based on the structure of the entity data string.

The structure of the entity data string is

uprefix.system.product.request.function

where

uprefix	is a user-defined prefix The value for the prefix is specified in the BBX security parameters. The default is BBM. For additional information, see “BBX Security Parameters” on page 3-3.
system	is the SYSNAME or SMFID for the system on which the service is being executed
product	is the name of the product issuing the request, which will be either SYSPROG Services or CSMON
request	is the name of the service to be executed If INIT=YES is specified in the BBX security parameters, SYSPROG Services calls the ESM to determine if it should initialize. In this case, INIT is used as the *request.*
function	further defines the request • LIST is used for services that display information. • UPDATE is used for services that produce changes. Some SYSPROG Services can effect changes as well as display information. For these services, the function is set (by an exit routine), depending on the parameters that were specified on the command. BMC Software recognizes that customers might have different opinions as to what constitutes a change or might want to prevent access to sensitive data. Therefore, BMC Software has provided the ability for you to specify the function to be associated with each service. In addition, you can provide an exit routine to set the function to any character string of one-to-seven characters. See “SYSPROG Services Service Name Table” on page 3-7 and “Creating and Modifying Service Security Exits” on page 3-8.

In this example,

```
BBM.SYSA.SYSPROG.APF.LIST
```

the entity data string specifies the following variables:

- default prefix (*uprefix*) is BBM
- SYSNAME (*system*) is SYSA
- name of the product (*product*) is SYSPROG Services
- name of the service to be executed (*request*) is APF
- function (*function*) is LIST

Note: Make sure that the length of the entity name (that is, the maximum number of allowable characters) is defined in the ESM parameters. For example, BMC Software supports entity string lengths up to 43 characters for ACF2 users. As entity string lengths expand, BMC Software will support those requirements as well, up to 253 characters.

BBX Security Parameters

SYSPROG Services needs to know if it should ask your ESM, by way of SAF, if requests should be allowed or denied. It also needs to know your preference for certain options. You specify this information in member BBSEC in a parameter data set. The default data set is SYS1.PARMLIB. However, you can use a different data set name if you desire. See “Specifying the Security Parameter Library Name” on page 3-7 for additional information. You will need to protect the data set containing these parameters from unauthorized modification. You should also consider controlling access to the update program, BBXSAF00.

The security parameters are interpreted (read) during BBX initialization. You can also execute program BBXSAF00 to reinterpret them at any time. See “Using BBXSAF00” on page 3-6 for additional information.

Note: You should define a default security rule to deny access to requests with a function qualifier of UPDATE. You can then define additional rules to make exceptions for specific users or groups of users on a service-by-service basis.

Table 3-1 on page 3-4 lists the required and optional BBSEC parameters.

Table 3-1 BBSEC Parameters (Part 1 of 2)

Keyword	Description and Permitted Values	Default Values
TYPE=	TYPE= keyword and value SYSPROG Services are required to define SAF security for SYSPROG Services and the Common Storage Monitor (CSMON). **Note**: *This keyword must be the first one on the statement.*	SYSPROG Services
PREFIX=	specifies the prefix for all entity strings	BBM
CLASS=	specifies the resource class to be used on RACROUTE calls to the SAF interface	$BOOLE
ACTION=	indicates that security should be ENABLED or DISABLED Specify DISABLED if you need to disable security calls due to some problem.	ENABLED
AUDIT=	determines if, and to what extent, auditing of service requests should be performed Audit messages are displayed according to the descriptor and routing codes that you have specified. The possible parameter values are as follows: NONE — indicates that no audit messages are to be produced ALL — indicates that an audit message should be issued for every security request UPDATE — indicates that audit messages should be produced for all security requests except those containing a function of LIST in the entity string, regardless of the result FAILED — indicates that an audit message should be produced when the security system denies access BOTH — indicates that an audit message should be issued when the criteria for either FAILED or UPDATE is met	NONE
TRACE=	valid values are NO and YES TRACE=YES indicates that a message containing the exact parameters for each security request is to be issued.	NO
WARN=	valid values are NO and YES YES indicates that the request should be allowed even though the security system denied access. WARN=YES implies AUDIT=ALL. WARN=YES allows you to test security rules without denying access.	NO

Table 3-1 BBSEC Parameters (Part 2 of 2)

Keyword	Description and Permitted Values	Default Values
INIT=	valid values are NO and YES YES indicates that a security call should be issued during initialization to determine if initialization should be allowed to continue.	NO
ERRPROC=	specifies how requests should be handled if the security system is not accessible • FAIL indicates that all requests should be denied when the security system is not accessible. • ALLOW indicates that all requests should be allowed.	FAIL
AUDRTE=	used to specify the route code(s) for audit and trace messages You can specify one or more route codes, separated by commas and enclosed in parentheses.	AUDRTE=(9)
AUDDSC=	used to specify the descriptor codes for audit and trace messages You can specify one or more codes, separated by commas and enclosed in parentheses.	AUDDSC=(4)
SYSID=	valid values are SMF, CVT, and NONE • If you specify SMF, the SMF identifier in field **SMCASID** is used. • If you specify CVT, the value in **CVTSNAME** is used, unless it is blank or contains the value NONE. If this is the case, the identifier in **SMCASID** is used.	NONE
USECNNM=	valid values are NO and YES • YES causes SYSPROG Services to use the console name for security verification. • NO causes SYSPROG Services to use its address space authority for security checks.	YES

Syntax for BBSEC Parameters

All parameters are specified on one logical statement, which can be specified in column positions 1-72 on one or more lines.

- A trailing comma indicates that the statement is continued on the next line.
- An asterisk (*) in column one indicates a comment.
- The first parameter must be TYPE=SYSPROG.

A sample set of SYSPROG Services security parameters is shown in Figure 3-1.

Figure 3-1 Sample BBX SAF Security Parameters for SYSPROG Services

```
*********************************************************
*    Sample Security Parameters for SYSPROG and CSMON   *
*********************************************************
*
TYPE=SYSPROG,
AUDIT=FAIL,
TRACE=NO,
INIT=YES
```

Using BBXSAF00

Changes to the BBSEC security parameters take effect when BBXSAF00 is executed. BBXSAF00 is executed during BBX initialization. If you change parameters in BBSEC, you should execute BBXSAF00 to make your changes effective.

Use the JCL in Figure 3-2 to activate changes to BBSEC.

Figure 3-2 Sample Job for Executing BBXSAF00

```
//BBSEC    EXEC PGM=BBXSAF00,PARM=REFRESH
//STEPLIB    DD DISP=SHR,DSN=????????.BBLINK
//SAFCRPT    DD SYSOUT=*
//
```

Specifying the Security Parameter Library Name

The name of the security parameter library is defined in CSECT BBXSAF01 in load module BBXSAF00. The name has been placed in a separate CSECT so that it will not be affected by future BMC Software product maintenance. You can change the name by reassembling and linking BBXSAF01 or with Super Zap. Use the following assembler statements to reassemble BBXSAF01:

```
BBXSAF1   DSN=SYSPROG.SECURITY.PARMLIB
END       ,
```

SYSPROG Services Service Name Table

The Service Name Table relates the service name to the load module for the service and defines attributes for the service. The table is constructed through the use of assembler macro statements.

One of the keyword parameters that can be specified on the ASTSNAME macro is FUNCTION; it is used to specify the function type to be associated with the service.

The permissible values are LIST, UPDATE, and EXIT.

- LIST—The function qualifier should be set to LIST.
- UPDATE—The function qualifier should be set to UPDATE.
- EXIT—The exit routine for the service should be called to determine the function qualifier.

You can determine the FUNCTION value for a service in one of two ways:

- Browse the source for the Service Name Table, which is distributed as member ASTXA1SN in the BBSRC data set.

- Use the XSERVICE service to display information about the service. To do so, enter

  XS,*service*

  where *service* is the name of the service for which information is desired.

Other Service Attributes

Three other attributes can be assigned to services in addition to the function qualifier:

- BBX=

  Indicates if the service uses (BBX=YES) or does not use (BBX=NO) service routines provided by the BBX component. Access to the service will be denied if BBX=YES is specified and BBX is not available.

- SUP=

  Indicates if the service requires supervisor state (SUP=YES) to execute. Access to the service will be denied if SUP=YES is specified and SYSPROG Services is not authorized.

- OPER=

  Indicates if operator authority is required (OPER=YES) or not required (OPER=NO) to execute the service. Access to the service will be denied if OPER=YES is specified and SAF security is not active or SYSPROG Services is not APF-authorized, and the user does not have operator authority. Operator authority is not checked when SAF security is active and SYSPROG Services is APF-authorized.

Creating and Modifying Service Security Exits

With service security exits, you can set the function qualifier to any value you like, not necessarily LIST or UPDATE. The function qualifier cannot exceed seven characters. SYSPROG Services examines the operands on the service request to determine the required action.

When FUNCTION=EXIT is specified on the service's ASTSNAME statement in ASTXA1SN, SYSPROG Services will call an exit routine, if it exists, so that it can set that function qualifier each time the service is about to be executed. The exit routine typically examines the parameters that were specified on the service request to determine the appropriate qualifier. If an exit routine does not exist for the service, the qualifier is set to UPDATE.

The name of the service's exit routine is ASTSEC*id*, where *id* is the two-digit module identifier for the service, as well as the second positional parameter on the ASTSNAME macro. The *id* is also used as the last two characters of the service's load module name, which is also displayed by the XSERVICE service.

Exit routines are supplied for services that have both LIST and UPDATE functions. The source for these exit routines can be found in BBSRC and can be used as a model for creating your own exit for a service.

COMMON STORAGE MONITOR (CSMON)

COMMON STORAGE MONITOR services are not defined in the Service Name Table. In addition, there is no provision for exit routines to set the function qualifier. The function qualifiers for CSMON services are shown in Table 3-2.

Table 3-2 CSMON Function Qualifiers

Service	Qualifier
OVERVIEW	LIST
SUMMARY	LIST
STATUS	LIST
DISPLAY	LIST
ALTER	UPDATE
FREE	UPDATE

Glossary

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

Since this glossary pertains to BMC Software-related products, some of the terms defined might 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.

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.

batch workload Workload consisting of address spaces running batch jobs.

BBI Basic architecture that distributes work between workstations and multiple OS/390 targets for BMC Software MAINVIEW products.

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

BBI subsystem product address space (BBI-SS PAS)
OS/390 subsystem address space that manages communication between local and remote systems and that contains one or more of the following products:

- MAINVIEW AutoOPERATOR
- MAINVIEW for CICS
- MAINVIEW for DB2
- MAINVIEW for DBCTL
- MAINVIEW for IMS Online
- MAINVIEW for WebSphere MQ
- MAINVIEW for WebSphere MQ Integrator
- MAINVIEW SRM
- MAINVIEW VistaPoint (for CICS, DB2, DBCTl, 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.

CA-Disk Data management system by Computer Associates that replaced the DMS product.

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 OS/390 or z/OS 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 OS/390, and RMF postprocessor. *See* CMF MONITOR Analyzer, CMF MONITOR Online, MAINVIEW for OS/390.

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 OS/390.

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.

CMRSTATS
: MAINVIEW for CICS data set that stores both CICS operational statistic records, at five-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 WebSphere MQ.

COMMON STORAGE MONITOR

Component of MAINVIEW for OS/390 that monitors usage and reconfigures OS/390 or z/OS 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.

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

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 OS/390 data collectors obtain data from OS/390 or z/OS services, OS/390 or z/OS 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.

DFSMS (Data Facility Storage Management System) Data management, backup, and HSM software from IBM for OS/390 or z/OS mainframes.

DMR *See* MAINVIEW for DB2.

DMS (Data Management System) *See* CA-Disk.

DMS2HSM *See* MAINVIEW SRM DMS2HSM.

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.

EasyHSM *See* MAINVIEW SRM EasyHSM.

EasyPOOL *See* MAINVIEW SRM EasyPOOL.

EasySMS *See* MAINVIEW SRM EasySMS.

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.*

Enterprise Storage Automation
See MAINVIEW SRM Enterprise Storage Automation.

event A message issued by Enterprise Storage Automation. User-defined storage occurrences generate events in the form of messages. These events provide an early warning system for storage problems and are routed to user-specified destinations for central viewing and management.

Event Collector Component for MAINVIEW for IMS Online, MAINVIEW for IMS Offline, 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 MAINVIEW for IMS Offline components: Performance Reporter and Transaction Accountant.

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

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.

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.

fire The term used to indicate that an event has triggered an action. In MAINVIEW AutoOPERATOR, when a rule selection criteria matches an incoming event and *fires*, the user-specified automation actions are performed. This process is also called *handling* the event.

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.

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.

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 real-time 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.

HSM (Hierarchical Storage Management) Automatic movement of files from hard disk to slower, less-expensive storage media. The typical hierarchy is from magnetic disk to optical disk to tape.

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 BMC Software 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.

Image log Collection of screen-display records. Image logs can 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.

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

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 real-time 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 detail (one event, one record) or summarized (more than one event, one record). A detail IRUF is created by processing the IMS system log through a program called IMFLEDIT. A summarized IRUF is created by processing one or more detail IRUFs, one or more summarized IRUFs, or a combination of both, through a sort program and the TASCOSTR program.

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.

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 Offline 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).

MAINVIEW BMC Software integrated systems management architecture.

MAINVIEW Alarm Manager (MV ALARM)
In conjunction with other MAINVIEW products, notifies you when an exception occurs. MAINVIEW Alarm Manager is capable of monitoring multiple systems simultaneously, which means that MAINVIEW Alarm Manager installed on one system keeps track of your entire sysplex. You can then display a single view that shows exceptions for all MAINVIEW performance monitors within your OS/390 or z/OS enterprise.

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

MAINVIEW Application Program Interface (MVAPI)
A CLIST- or REXX-based, callable interface that allows MAINVIEW AutoOPERATOR EXECs to access MAINVIEW monitor product view data.

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 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 Desktop Version of the MAINVIEW window interface designed to run on OS/2 and Windows workstations.

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 real-time application performance analysis and monitoring for CICS system management.

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

MAINVIEW for DBCTL (MVDBC)

Product that provides real-time application performance analysis and monitoring for DBCTL management.

MAINVIEW for IMS (MVIMS) Offline

Product with a Performance Reporter component that organizes data and prints reports used to analyze IMS performance and a Transaction Accountant component that produces cost accounting and user charge-back records and reports.

MAINVIEW for IMS (MVIMS) Online

Product that provides real-time application performance analysis and monitoring for IMS management.

MAINVIEW for IP Product that monitors OS/390 and z/OS mission-critical application performance as it relates to TCP/IP stack usage. Collected data includes availability, connections, response times, routers, service levels, storage, traffic, Web cache, and so on.

MAINVIEW for Linux–Servers

Product that allows you to monitor the performance of your Linux systems from the MAINVIEW windows interface.

MAINVIEW for MQSeries

See MAINVIEW for WebSphere MQ.

MAINVIEW for OS/390

System management application (formerly known as 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 Application Server (formerly known as MAINVIEW for WebSphere)

Product that provides extensive information for managing the IBM WebSphere Application Server for z/OS and OS/390 environment. At the user's option, information is displayed about multiple or single HTTP servers, WAS plug-ins, or J2EE/CORBA containers. The product also provides JVM profiling capability.

MAINVIEW for WebSphere MQ

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

MAINVIEW for WebSphere MQ Integrator

Licensed feature of MAINVIEW for WebSphere MQ that provides comprehensive configuration, administration, performance monitoring, and operations management capabilities for an IBM WebSphere MQ Integrator message broker network.

MAINVIEW Selection Menu

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

MAINVIEW SRM *See* MAINVIEW Storage Resource Manager (SRM).

MAINVIEW SRM DMS2HSM

Product that facilitates the conversion of CA-Disk, formerly known as DMS, to HSM.

MAINVIEW SRM EasyHSM

Product that provides online monitoring and reporting to help storage managers use DFHSM efficiently.

MAINVIEW SRM EasyPOOL

Product that provides control over data set allocation and enforcement of allocation and naming standards. EasyPOOL functions operate at the operating system level to intercept normal job processing, thus providing services without any JCL changes.

MAINVIEW SRM EasySMS

Product that provides tools that aid in the conversion to DFSMS and provides enhancement to the DFSMS environment after implementation. EasySMS consists of the EasyACS functions, the SMSACSTE function, and the Monitoring and Positioning Facility.

MAINVIEW SRM Enterprise Storage Automation

Product that delivers powerful event generation and storage automation technology across the storage enterprise. Used in conjunction with MAINVIEW AutoOPERATOR, automated solutions to perform pool, volume, application, or data set-level manipulation can be created and used in response to any condition or invoked to perform ad hoc requests.

MAINVIEW SRM SG-Auto

Product that provides early warning notification of storage anomalies and automated responses to those anomalies based on conditions in the storage subsystem.

MAINVIEW SRM SG-Control

Product that provides real-time monitoring, budgeting, and control of DASD space utilization.

MAINVIEW SRM StopX37/II

Product that provides enhancements to OS/390 or z/OS space management, reducing the incidence of space-related processing problems. The StopX37/II functions operate at the system level to intercept abend conditions or standards violations, thus providing services without any JCL changes.

MAINVIEW SRM StorageGUARD

Product that monitors and reports on DASD consumption and provides historical views to help control current and future DASD usage.

MAINVIEW Storage Resource Manager (SRM)

Suite of products that assist in all phases of OS/390 or z/OS storage management. MAINVIEW SRM consists of products that perform automation, reporting, trend analysis, and error correction for storage management.

MAINVIEW SYSPROG Services

See SYSPROG services.

MAINVIEW VistaPoint

Product that provides enterprise-wide views of performance. Application and workload views are available for CICS, DB2, DBCTL, IMS, OS/390, or z/OS. Data is summarized at the level of detail needed; for example, views can be for a single target, an OS/390 or z/OS 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.

Multi-Level Automation (MLA)
The user-defined, multiple step process in Enterprise Storage Automation that implements solutions in a tiered approach, where solutions are invoked one after another until the condition is resolved.

MVALARM *See* MAINVIEW Alarm Manager.

MVAPI *See* MAINVIEW Application Program Interface.

MVCICS *See* MAINVIEW for CICS.

MVDB2 *See* MAINVIEW for DB2.

MVDBC *See* MAINVIEW for DBCTL.

MVIMS *See* MAINVIEW for IMS.

MVIP *See* MAINVIEW for IP.

MVLNX *See* MAINVIEW for Linux–Servers.

MVMQ *See* MAINVIEW for WebSphere MQ or MAINVIEW for WebSphere MQ Integrator.

MVMVS *See* MAINVIEW for OS/390.

MVScope MAINVIEW for OS/390 application that traces both CPU usage down to the CSECT level and I/O usage down to the channel program level.

MVSRM *See* MAINVIEW Storage Resource Manager (SRM).

MVSRMHSM *See* MAINVIEW SRM EasyHSM.

MVSRMSGC *See* MAINVIEW SRM SG-Control.

MVSRMSGD *See* MAINVIEW SRM StorageGUARD.

MVSRMSGP *See* MAINVIEW SRM StorageGUARD.

MVUSS *See* MAINVIEW for UNIX System Services.

MVVP *See* MAINVIEW VistaPoint.

MVVTAM *See* MAINVIEW for VTAM.

MVWEB *See* MAINVIEW for WebSphere Application Server.

nested help Multiple layers of help pop-up windows. Each successive layer is accessed by clicking a hyperlink from the previous layer.

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 OS/390 OpenEdition address spaces.

online help Help information that is accessible online.

OS/390 and z/OS Installer
BMC Software common installation system for mainframe products.

OS/390 product address space (PAS)
Address space containing OS/390 or z/OS data collectors, including the CMF MONITOR Extractor. Used by MAINVIEW for OS/390, MAINVIEW for UNIX System Services, and CMF MONITOR products. *See* PAS.

parameter library Data set consisting of members that contain 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 also* OS/390 product address space (PAS) *and* BBI subsystem product address space (BBI-SS PAS).

performance group workload
Collection of address spaces defined to OS/390 or z/OS. If you are running OS/390 or z/OS with WLM in compatibility mode, MAINVIEW for OS/390 creates a performance group workload instead of a service class.

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

Performance Reporter (MVIMS)
MVIMS Offline component that organizes data and prints reports that can be used to analyze IMS performance.

Performance Reporter

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

- MAINVIEW for DB2
- 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 display

Full-screen panel that displays additional information about a selected event in a detail trace.

pop-up window

Window containing help information that, when active, overlays part of the window area. A pop-up window is displayed when you issue the HELP command while working in windows-mode.

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 OS/390 creates a performance group workload for each performance group defined in the current IEAIPS*xx* member.

procedure library Data set consisting of members that contain 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 consisting of members that contain 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.

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.

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

Resource Analyzer Online real-time displays used to analyze IMS resources and determine which are affected by specific workload problems.

Resource Monitor Online data collection services used to monitor IMS resources and issue warnings when defined utilization thresholds are exceeded.

row (1) Horizontal component of a view or display comprising all the fields pertaining to a single device, address space, user, and so on. (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.

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 real-time data, the cycle is not fixed. Data is sampled each time you press **Enter**.

sample library Data set consisting of members each of which contains one of the following items:

- sample JCL that can be edited to perform specific functions
- macro that is referenced in the assembly of user-written services
- 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
Collection of address spaces defined to OS/390 or z/OS. If you are running Workload Manager (WLM) in goal mode, MAINVIEW for OS/390 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, OS/390 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. For compatibility mode, neither OS/390 nor z/OS provides any way to measure service.

service point Specification, to MAINVIEW, of the services required to enable a specific product. Services can be actions, selectors, or views. Each target (for example, 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.

SG-Auto *See* MAINVIEW SRM SG-Auto.

SG-Control *See* MAINVIEW SRM SG-Control.

single system image (SSI)
Feature of the MAINVIEW window environment architecture where you can view and perform actions on multiple OS/390 or z/OS systems as though they were a single system. The rows of a single tabular view can contain rows from different OS/390 or z/OS images.

Skeleton Tailoring Facility
A facility in MAINVIEW AutoOPERATOR that allows skeleton JCL to be used during job submission. Skeleton JCL can contain variables within the JCL statements to be substituted with data values at job submission time. Directive statements can be used in the skeleton JCL to cause the repetition of a set of skeleton statements. This facility functions similar to the TSO skeleton tailoring facility**.**

SRB *See* service request block.

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).

stem variables A REXX facility, supported in MAINVIEW AutoOPERATOR REXX EXECs and the Skeleton Tailoring Facility, where variable names end with a period followed by a number, such as &POOL.1. This configuration allows each variable to actually represent a table or array of data, with the zero variable containing the number of entries in the array. For example, &POOL.0 = 5 would indicate variables &POOL.1 through &POOL.5 exist.

StopX37/II *See* MAINVIEW SRM StopX37/II.

StorageGUARD *See* MAINVIEW SRM StorageGUARD.

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.

SYSPROG services Component of MAINVIEW for OS/390. Over 100 services that detect, diagnose, and correct OS/390 or z/OS system problems as they occur. Accessible from the OS/390 Performance and Control Main Menu. Note that this component is also available as a stand-alone product MAINVIEW SYSPROG Services.

system resource *See* object.

target Entity monitored by one or more MAINVIEW products, such as an OS/390 or z/OS image, an IMS or DB2 subsystem, a CICS region, or related workloads across systems. *See* context, scope, SSI context.

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

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

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 stand-alone 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.

Transaction Accountant
MVIMS Offline component that produces cost accounting and user charge-back records and reports.

TS *See* terminal session.

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

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.

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 time frame 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).

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 tomfooleries 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 OS/390 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 (for example, address spaces, CICS transactions, IMS transactions) according to classification criteria established by a system administrator. (2) In OS/390 or z/OS, a 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 Analyzer Online data collection and display services used to analyze IMS workloads and determine problem causes.

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 OS/390, 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 Monitor Online data collection services used to monitor IMS workloads and issue warnings when defined thresholds are exceeded.

workload objectives
Performance goals for a workload, defined in WKLIST. Objectives can include measures of performance such as response times and batch turnaround times.

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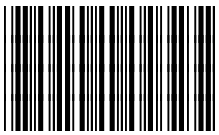

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