

MAINVIEW[®] for IP Customization Guide

Version 2.2

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- 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

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Before Contacting BMC Software

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

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About This Book

This book contains detailed information about MAINVIEW for IP and is intended for network administrators, system administrators, and system programmers.

To use this book, you should be familiar with the following items:

- Multiple Virtual Storage (MVS) systems, job control language (JCL), and the Interactive System Productivity Facility (ISPF)
- your client and host operating systems

For example, you should know how to respond to ISPF panels and how to perform common actions in a window environment (such as choosing menu items and resizing windows).

How This Book Is Organized

This book is organized as follows. In addition, an index appears at the end of the book.

Chapter	Description
Chapter 1, "Installation Overview"	provides an overview of the installation process
Chapter 2, "Installation Preparation"	provides information about preparing to install MAINVIEW for IP in your environment
Chapter 3, "Installation Customization"	describes how to customize MAINVIEW for IP for operation in your environment
Chapter 4, "Additional Customization"	provides more information about customizing MAINVIEW for IP for operation in your environment
Chapter 5, "Startup Parameters"	describes startup parameters that you can use with MAINVIEW for IP

Related Documentation

BMC Software products are supported by several types of documentation:

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

In addition to this book and the online Help, you can find useful information in the following publications:

Category	Document	Description
installation documents	<i>Implementing Security for MAINVIEW Products</i>	explains basic MAINVIEW security, enhanced security, and MAINVIEW Alternate Access security
	<i>MAINVIEW Common Customization Guide</i>	provides instructions for manually customizing the MAINVIEW environment for your products
	<i>MAINVIEW Installation Requirements Guide</i>	provides product-specific information such as software and storage requirements, product libraries, and FMIDs
	<i>OS/390 and z/OS Installer Guide</i>	provides instructions for using the installation system, and describes the Product Authorization utility and AutoCustomization

Category	Document	Description
core documents	<i>MAINVIEW Administration Guide</i>	provides information about MAINVIEW operations, targets, single-system image contexts, MAINVIEW Alarm Manager, data sets, view customization, and diagnostic facilities
	<i>MAINVIEW Alarm Manager User Guide</i>	describes how to create and install alarm definitions that indicate when exceptions occur in a sysplex
	<i>MAINVIEW Alternate Access Implementation and User Guide</i>	explains how to configure, start, and stop VTAM and EXCP AutoLogon sessions to access MAINVIEW products without an active TSO subsystem
	<i>MAINVIEW for IP User Guide</i>	provides information about product features, product functions, and how to use MAINVIEW for IP
	<i>MAINVIEW Products General Information</i>	provides an overview of the MAINVIEW environment and the products that it supports
	<i>MAINVIEW Quick Reference</i>	introduces the MAINVIEW family of products and lists the commands used to manage the MAINVIEW windows environment
	<i>Using MAINVIEW</i>	provides information about working with MAINVIEW products in windows mode, full-screen mode and from MAINVIEW Explorer
supplemental documents	release notes, flashes, technical bulletins	provide current information about MAINVIEW for IP

Online and Printed Books

The books that accompany BMC Software products are available in online format and printed format. If you are a Windows or Unix user, you can view online books with Acrobat Reader from Adobe Systems. The reader is provided at no cost, as explained in “To Access Online Books.” You can also obtain additional printed books from BMC Software, as explained in “To Request Additional Printed Books.”

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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

MAINVIEW for IP includes online Help. In the MAINVIEW for IP ISPF interface, you can access Help by pressing **F1** 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 http://www.bmc.com/support_home.

Conventions

This book uses the following general conventions:

Item	Example
information that you are instructed to type	Type SEARCH DB in the designated field.
specific (standard) keyboard key names	Press Enter .
field names, text on a panel	Type the appropriate entry in the Command field.
directories, file names, Web addresses	The BMC Software home page is at www.bmc.com .
nonspecific key names, option names	Use the HELP function key. KEEPDICTIONARY option
MVS calls, commands, control statements, keywords, parameters, reserved words	Use the SEARCH command to find a particular object.
code examples, syntax statements, system messages, screen text	//STEPLIB DD The table <i>table_name</i> is not available.
emphasized words, new terms, variables	The instructions that you give to the software are called <i>commands</i> . In this message, the variable <i>fileName</i> represents the file that caused the error.

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 useful information that might improve product performance or make procedures easier to follow.

Chapter 1 Installation Overview

This chapter provides an overview of the installation process. This chapter contains the following sections:

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Installation System

MAINVIEW for IP can be installed by using the OS/390 and z/OS Installer. The installation checklist provides an outline of the installation process. It does not describe or contain every step of the process. The checklist contains generalized tasks and references to the appropriate book to perform each task.

For more information about installing MAINVIEW for IP by using the OS/390 and z/OS Installer, see the *OS/390 and z/OS Installer Guide*. For information about customizing MAINVIEW for IP when you have used the OS/390 and z/OS Installer, see Chapter 3, “Installation Customization.”

Installation Checklist

The installation checklist outlines the steps that you must perform to install and run your product (or products). The checklist summarizes what you must do and refers you to detailed instructions.

The checklist is divided into the following sections:

- “Preparation Steps” on page 1-3
- “Installation Steps” on page 1-4
- “Customization Steps” on page 1-5

When you have completed the installation, see “Where to Go from Here” on page 1-6.

Combining Checklists for Multiple Products

The checklist is for the product that is listed in “Products” on page 1-3. You can use the Installation Checklist Generator to create a checklist that integrates the checklist in this book with checklists in other product books.

When you use the checklist generator, you select the products that you are going to install and the checklist generator produces an integrated checklist. The integrated checklist outlines all steps that you must complete for successful installation of all your products.

The checklist generator is available on your documentation CD. For information about running the checklist generator, see the *OS/390 and z/OS Installer Guide*.

Note: The Installation Checklist Generator runs with Microsoft Internet Explorer 4.01 and later and Netscape Navigator 4.08 through 4.78, inclusive.

Products

This checklist pertains to the following BMC Software products:

- MAINVIEW for IP version 2.2.00

Preparation Steps

The following preparation steps help you prepare for installation of your products. The steps describe the tasks that you must complete and the items that you must assemble before you start installation.

✓	Step	Task	Description	Reference
	1	assemble needed materials	Gather all installation tapes, tape cover letters, product release notes, product technical bulletins, the <i>OS/390 and z/OS Installer Guide</i> , customization guides, planning guides, and so on.	your product shipment and the support page on the BMC Software Web site
	2	review product release notes	The release notes describe enhancements, changes, and fixes for a product and contain important information you need to know.	your product shipment
	3	review technical bulletins and flashes	Technical bulletins and flashes contain information about problems that have been identified since the product was last released.	your product shipment or the support page on the BMC Software Web site
	4	obtain product passwords	Contact BMC Software if you have not received passwords for your products.	<i>OS/390 and z/OS Installer Guide</i> , "BMC Software Product Authorization" appendix product authorization letter
	5	read prerequisites	Prerequisites state the operating system version requirements, space requirements, authorization requirements, and so on.	<i>MAINVIEW for IP Customization Guide</i> , "Installation Preparation" chapter

✓	Step	Task	Description	Reference
	6	read installation considerations	Installation considerations describe information about running with other products and product implementation.	<i>MAINVIEW for IP Customization Guide</i> , "Installation Preparation" chapter
	7	obtain authorization to complete the installation	Reading the installation tapes or creating the installation data sets might require RACF authorization.	contact your system administrator, security administrator, or other administrator
	8	obtain authorization to complete customization	Customization of some products might require APF authorization.	<i>MAINVIEW for IP Customization Guide</i> , "Installation Preparation" chapter
	9	complete planning, testing, and setup	This information is required before product installation and for migration from another product.	<i>MAINVIEW for IP Customization Guide</i> , "Installation Preparation" chapter

Installation Steps

The following installation steps help you run the BMC Software OS/390 and z/OS Installer to successfully complete installation for all of your OS/390 and z/OS BMC Software products. The installation system combines tape images, copies files to your system (Standard or SMP/E), creates installation JCL, and applies maintenance to installed products.

✓	Step	Task	Description	Reference
	1	understand the installation system	The installation system has features and functions that you should be familiar with before using it.	<i>OS/390 and z/OS Installer Guide</i> , "Introduction" chapter
	2	unload the base installation libraries from the installation tape	The base installation libraries contain the installation system.	<i>OS/390 and z/OS Installer Guide</i> , "Using the Installation System" chapter
	3	create the customized installation libraries	The customized installation libraries specify a site-specific installation environment.	<i>OS/390 and z/OS Installer Guide</i> , "Using the Installation System" chapter
	4	start the installation system	The installation system automates many installation steps.	<i>OS/390 and z/OS Installer Guide</i> , "Using the Installation System" chapter
	5	specify repository information	The repository profile contains installation and customization options that are used when performing subsequent installations.	<i>OS/390 and z/OS Installer Guide</i> , "Using the Installation System" chapter
	6	specify user options	The user options determine how the installation system runs and specify where installation JCL is stored.	<i>OS/390 and z/OS Installer Guide</i> , "Using the Installation System" chapter

✓	Step	Task	Description	Reference
	7	select the products to install	The installation system generates all the steps necessary for the products you want to install.	<i>OS/390 and z/OS Installer Guide</i> , "Using the Installation System" chapter
	8	run the JCL that was created by the installation system	The installation system presents installation JCL for your approval and helps you to run the JCL.	<i>OS/390 and z/OS Installer Guide</i> , "Running Installation JCL" chapter
	9	specify product authorization passwords	Permission to run your products is granted.	<i>OS/390 and z/OS Installer Guide</i> , "Using the Installation System" chapter
	10	verify installation	Some products include an installation verification program (IVP) or provide information to verify installation.	<i>MAINVIEW Common Customization Guide</i> , "Customizing the MAINVIEW Environment" chapter

Customization Steps

The following customization steps describe the tasks that you must complete to run your product (for some products, additional customization options might be available once the product is running). Some tasks might be performed by using the installation system, while other tasks might be performed by using a separate utility.

✓	Step	Task	Description	Reference
	1	choose the customization option in the installation system	Customization is started through the customization option in the installation system.	<i>OS/390 and z/OS Installer Guide</i> , "Using the Installation System" chapter
	2	create or update system objects, components, or resources	System objects, components, and resources include such items as sysplex or coupling facility, VTAM, TCP/IP, and LPARs.	<i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter
	3	create or update subsystem objects, components, or resources	Subsystem objects, components, and resources include such items as DB2 plans, DB2 table spaces, and APPLIDs.	<i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter
	4	allocate, create, or update data sets or files	Many products require specific data sets or files.	<i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter
	5	set up data collectors	Many products use a data collector to store system data that they have collected.	<i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter <i>MAINVIEW for IP Customization Guide</i> , "Additional Customization" chapter

✓	Step	Task	Description	Reference
	6	install or update the interface	Some products require customization of ISPF or require the use of an interface other than ISPF.	<i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter
	7	create or update profiles or global parameters	Most products require profiles or parameters to be set or updated.	<i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter
	8	create or update the initialization PROC, CLIST, REXX EXEC, or started task	Most products require a startup routine to run.	<i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter
	9	define or update security	All products provide information for interfacing to RACF or other security products. Some products include their own security features in addition to or instead of RACF security.	<i>Implementing Security</i> , "Enhanced Security" section <i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter
	10	implement user exits	Some products provide user exits for interfacing with the product.	<i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter <i>MAINVIEW for IP Customization Guide</i> , "Additional Customization" chapter
	11	perform additional customization tasks for your products	Some products require additional tasks to be performed before the products are completely installed.	<i>MAINVIEW for IP Customization Guide</i> , "Additional Customization" chapter
	12	verify customization	Some products provide information to verify customization of the product.	<i>MAINVIEW for IP Customization Guide</i> , "Installation Customization" chapter

Where to Go from Here

When installation of your products is complete, refer to the following books:

Product	Book
MAINVIEW for IP	<i>MAINVIEW for IP Customization Guide</i>

Chapter 2 Installation Preparation

This chapter provides information about preparing for MAINVIEW for IP installation. This chapter contains the following sections:

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Overview

Before you install MAINVIEW for IP, you must gather specific information. This chapter describes the materials, prerequisites, and product authorization that can help you install and customize MAINVIEW for IP.

Required Materials

This section describes the materials that you must gather and review before installing MAINVIEW for IP.

Books and Notices

Table 2-1 lists the installation and customization books that you need to install and customize MAINVIEW for IP.

Table 2-1 Installation and Customization Materials

Material	Description
release notes, flashes, and technical bulletins	provide important product information and last-minute information
<i>OS/390 and z/OS Installer Guide</i>	provides information about the OS/390 and z/OS Installer
<i>MAINVIEW for IP Customization Guide</i>	provides installation planning information and instructions for setup and testing, and provides instructions for customizing MAINVIEW for IP when it has been installed by using the OS/390 and z/OS Installer

Checklists

The installation checklist outlines the steps that you must perform to install and run MAINVIEW for IP. The checklist summarizes what you must do and refers you to detailed instructions.

Note: The Installation Checklist Generator runs with Microsoft Internet Explorer 4 or later, and Netscape Navigator versions 4.08 through 4.78, inclusive.

The Installation Checklist Generator is available on your documentation CD, and the most current version is on the BMC Software Web site at http://www.bmc.com/support_home. Using the checklist generator, you can select a set of products that are available in the installation system to produce an integrated checklist that lists each step that you must complete for successful installation.

The checklist provides the following information:

- list of preinstallation tasks to complete and items to assemble
- specific installation tasks to help you run the installation system and successfully complete the installation
- list of the customization tasks necessary to run your product
- references to where you can find additional or supporting information

You can run the Installation Checklist Generator, *or* you can copy and combine checklists from the customization books for the BMC Software products that you plan to install.

Worksheets

Worksheets are provided for many BMC Software products. A worksheet contains information, such as data set names and library locations, that you need for completing installation. Before beginning installation, copy and combine all worksheets from the customization books for the BMC Software products that you plan to install.

Prerequisites

This section describes hardware, system, and security product prerequisites.

MAINVIEW for IP operates as a client in the MAINVIEW Infrastructure product address space (PAS) and uses MAINVIEW services. Installation and customization of MAINVIEW for IP require only a few steps before you can take advantage of MAINVIEW services and enable MAINVIEW for IP.

Note: MAINVIEW for IP can monitor one Internet Protocol (IP) stack or multiple IP stacks. If your data center runs MAINVIEW for IP on an MVS with multiple IP stacks, no additional installation or configuration steps are required.

For procedures on acquiring and installing MAINVIEW for IP from the product tape, see the *MAINVIEW Installation Requirements Guide*. Target and distribution libraries are in the base MAINVIEW installation.

OSA Requirements

Before you can use the Open Systems Adapter (OSA) views, ensure that your operating system meets the minimum requirements and complete the required customization tasks. For more information about minimum requirements and customization tasks, see Chapter 4, “Additional Customization.”

System Requirements

The following system prerequisites are required for MAINVIEW for IP:

- MAINVIEW Infrastructure PAS
- OS/390 2.6 through z/OS 1.1 or later
- IBM TCP/IP stack

Note: Other TCP/IP stacks are not supported.

For more information about the prerequisites that are required, see the *MAINVIEW Installation Requirements Guide*.

RACF Requirements

A security product like Resource Access Control Facility (RACF) is required for the OS/390 eNetwork Communications Server version 2.5 (or later) IP environment. Each unit of work in the system that requires Unix System Services must be associated with a Unix System Services identity. A valid identity refers to the presence of a valid Unix user ID (UID), a valid Unix group ID (GID), and a valid HOME directory for the user. The UID and the GID are defined through the OMVS segment, in the RACF profile, and in the RACF group profile.

For more information about RACF, see the *IBM IP Planning and Migration Guide*.

Note: If the started task is not defined to a user ID that has a defined OMVS segment, error messages might be issued. If the HOME directory is not specified for the user ID, the socket call might fail.

Product Authorization

Before you can use MAINVIEW for IP, you must perform product authorization. For more information about the BMC Software Product Authorization utility, see the *OS/390 and z/OS Installer Guide*.

Note: If you are upgrading the product from a previous version, the password is in load module BFXTBL3P in your old load library. Copy the password to your new load library.

Chapter 3 Installation Customization

This chapter provides information about customizing MAINVIEW for IP for operation in your environment. This chapter contains the following sections:

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Overview

This chapter describes how to customize MAINVIEW for IP to make the basic functions operational by using the following methods:

- AutoCustomization
- manual customization

When MAINVIEW for IP has been installed on your system, you must create a MAINVIEW for IP product address space (PAS). You can use AutoCustomization to perform this task, or you can perform the customization manually.

AutoCustomization performs most required steps, providing panels on which you can enter the necessary information. You might also have to perform steps to ensure the level of security that is required at your site.

To perform the customization steps manually, see the *MAINVIEW Common Customization Guide* and “Manual Customization” on page 3-5.

AutoCustomization

You can use AutoCustomization to perform the minimum steps that are required to make MAINVIEW for IP (product code TAC) operational.

Product Customization Steps

You can customize MAINVIEW for IP by completing the TAC steps of AutoCustomization. When you invoke AutoCustomization and access the Product Customization Steps panel for MAINVIEW for IP, the product customization steps are displayed. Figure 3-1 shows the Product Customization Steps panel that is displayed for MAINVIEW for IP. For detailed information about invoking and using AutoCustomization, see the *MAINVIEW Common Customization Guide*.

Figure 3-1 Sample Product Customization Steps Panel

```

BMC Software ----- PRODUCT CUSTOMIZATION STEPS ----- Row 1 to 20 of 20
COMMAND ==>                                           SCROLL ==> PAGE

Valid line commands:                               Status (S)      Flag (F)
S - Select a step (Must be selected in sequence)   -----
B - Browse a step (No action is taken; step may    + completed    o optional
           be browsed out of sequence)           - bypassed

Step S F Description                                Product
-----
 1 +   Specify jobcards and other operational defaults          SHR
 2 + o  Generate JCL to run Installation Verification Program     SHR
 3 + o  Implement GDDM/PGF support                               SHR
 4 - o  Implement Katakana terminal support                       SHR
 5 +   Create site data sets for use with MAINVIEW products     SHR
 6 +   Create site security data set for use with MAINVIEW products SHR
 7 + o  Add the BMC Software load library to your system APF list SHR
 8 + o  Add the BMC Software load library to your system link list SHR
 9 +   Create CLIST for invoking MAINVIEW products              SHR
10 - o  Reload all BBX services                                  SHR
11 +   Create the CAS (Coordinating Address Space) startup procedure SHR
12 +   Create MAINVIEW Explorer Host Server startup procedure   SHR
13 +   Create Input Parms                                       TAC
14 +   Create SNMP Parms                                         TAC
15 +   Create IP Pacing Parms                                    TAC
16 +   Create MAINVIEW for IP Product Address Space              TAC
17 +   Create Password Library                                   TAC
18 +   Create History                                             TAC
19 + o  Online Authorization                                     TAC
20 + o  Batch Authorization                                       TAC
***** Bottom of data *****

```

Executing TAC Steps

Summary: In this task, you will execute TAC customization steps.

Before You Begin

Note: If you have not used AutoCustomization, or if you are unsure about a step, use the browse (B) line command to browse the step before selecting it. For more information about AutoCustomization, see the *MAINVIEW Common Customization Guide*.

The panels for each step prompt you for specific customization information; Help is available when you press **F1**. For more information about each TAC step, see “Manual Customization” on page 3-5.

To Execute the TAC Customization Steps

Perform the TAC steps as described in Table 3-1.

Table 3-1 TAC AutoCustomization Steps

Step	Description
Create Input Parm	(required) Create a data set that contains the startup parameters for the PAS.
Create SNMP Parm	(required) Create a data set that contains the parameters for the Simple Network Management Protocol (SNMP) data.
Create IP Pacing Parm	(required) Create a data set that contains the parameters to control IP pacing.
Create MAINVIEW for IP Product Address Space	(required) Create the PAS for MAINVIEW for IP.
Create Password Library	(required) Create the JCL for the Product Authorization library data set that contains the password for the PAS and the MAINVIEW for IP started task.
Create History	(required) Create a data set that contains output from the historical data recorder.
Online Authorization	(optional) Interactively process Product Authorization (password) requests online. You can process a password that is supplied by BMC Software, display the contents of the Product Authorization table, or display information about the processor that you are using.
Batch Authorization	(optional) Use a batch program to manage the Product Authorization library.

Manual Customization

You can use manual customization to customize MAINVIEW for IP to best suit your needs. BMC Software provides AutoCustomization procedures that help you customize the environment automatically. This section describes the steps for customizing the environment manually.

Table 3-2 summarizes the manual customization process. The right column names the data set member containing the sample JCL that is included on the tape. These samples are in the *hilevel.BBSAMP* data set on the tape, but you can specify a different high-level qualifier when you write the JCL to unload the tape.

Table 3-2 Summary of Manual Customization Process

Task	Description	Data Set Member
1	Customize the MAINVIEW (SHR) online environment.	NA
2	Customize the MAINVIEW for IP (TAC) online environment.	NA
2.A	Create the MAINVIEW for IP input parameters.	TACPARM
2.B	Create the SNMP input parameters.	TACSNMP
2.C	Create the IP pacing parameters.	TACPACE
2.D	Create the MAINVIEW for IP PAS.	TACPAS
2.E	Create the password library.	TACLIB
2.F	Create the history data set.	TACHIS
2.G	Edit the batch jobs that install your bypass Product Authorization password in the product authorization load module.	TACSEC

Task 1—Customizing the MAINVIEW Online Environment

To perform manual customization of the MAINVIEW online environment, see the *MAINVIEW Common Customization Guide*.

Note: Because of library allocations, TAC manual customization cannot be performed until you have completed manual customization for the SHR steps. Instructions for executing the SHR steps are provided in the *MAINVIEW Common Customization Guide*.

Task 2—Customizing the MAINVIEW for IP Online Environment

The online environment for MAINVIEW products must be customized so that the MAINVIEW for IP PAS and the MAINVIEW coordinating address space (CAS) can be connected.

You can customize the MAINVIEW for IP environment manually or automatically. BMC Software provides AutoCustomization procedures that help you customize the environment step by step. This section describes the steps for customizing the MAINVIEW for IP environment manually.

Task 2.A—Creating Input Parameters

Summary: In this task, you will create the MAINVIEW for IP input parameters.

Before You Begin

You can use a SYSIN data definition (DD) statement for startup parameters. With this feature, the startup procedure can be frozen. Changes can be implemented by modifying the contents of the data set that the SYSIN DD points to, making it easier to comply with change control procedures. The SYSIN DD statement also removes the limitation of 100-byte parameter strings.

A sample parameter file is provided with the distribution tape in member *hilevel.BBSAMP(TACPARM)*. The syntax rules of the parameter file are as follows:

- An asterisk (*) or a blank () in column 1 causes that line to be treated as a comment line.
- Input is scanned up to and including column 71.
- A comma (,) at the end of a line (before column 72) is interpreted as a continuation character.

For example, the file may contain the following parameter:

```
* Comment starting with asterisk in column 1
PARM1,
PARM2,
PARMLAST,
END
```

- If a syntax error (for example, a missing continuation character) or an invalid parameter occurs, the subsystem will not initialize.

Valid startup parameters for MAINVIEW for IP are described in TACPARM. For more information, see Chapter 5, “Startup Parameters.”

To Create MAINVIEW for IP Input Parameters

- Step 1** Select *hilevel.BBSAMP(TACPARM)*.
- Step 2** To customize the TACPARM member, follow the instructions at the top of the TACPARM member.

A sample of the member is shown in Figure 3-2.

Figure 3-2 TACPARM Sample BBSAMP Member (Part 1 of 2)

```

/**
/**  CHANGE LOG:
/**
/**          CREATED BY ?USER ON ?DATE AT ?TIME
/**

/**-----
/**  UBBPARAM  = ?UBBPARM
/**  BBUPARAM  = ?BBUPARM
/**  BAVPRCLB  = ?BAVPRCLB
/**  BAVSAMP   = ?BAVSAMP
/**  BAVIMID   = ?BAVIMID
/**-----
/**  IEBGENER  EXEC  PGM=IEBGENER
/**  SYSPRINT  DD    SYSOUT=*
/**  SYSUT2    DD    DISP=SHR,DSN=?BBCHILV.?BAVIMID.UBBPARM(TACPARM)
/**  SYSIN     DD    DUMMY
/**  SYSUT1    DD    *
*
* * IN COL1 INDICATES COMMENT
*
* CONFIGURATION PARMS FOR MAINVIEW/IP
* REQUIRES OS390 R2.5 AND HIGHER WITH IBM TCPIP STACK.
* REQUIRES RACF OMVS SEGMENT AUTHORITY.
*
* SMFREC= PARAMETER INDICATES THAT SMF RECORDING WILL BE
* TURNED ON. THE SMF RECORD IS WRITTEN FOR EACH COMPONENT
* BASED ON THEIR INTERVALS. THE DEFAULT IS SMF RECORDING "ON"
* AND USING USER RECORD 252.
*
* TO TURN OFF SMF RECORDING, YOU MUST REMOVE THE SMFREC= PARAMETER.
*
*
NOSAMP,          DO NOT SAMPLE IP PACKETS (RTM INFO) - DEFAULT
*SAMP,           DO SAMPLE IP PACKETS (RTM INFO)
NOPACE,          DO NOT PACE ANY IP APPLICATION
*PACE,           DO PACE IP APPLICATIONS
PKTTRLEN=5M,    DEFAULT LENGTH FOR PACKET TRACE TABLE
PKTWRAP,        WRAP THE PACKET TRACE TABLE
*PKTNWRAP,      DO NOT WRAP THE PACKET TRACE TABLE
SKTTRLEN=5M,    DEFAULT LENGTH FOR SOCKET TRACE TABLE
SKTWRAP,        WRAP THE SOCKET TRACE TABLE
*SKTNWRAP,      DO NOT WRAP THE SOCKET TRACE TABLE
*SMFREC=252,    SMF USER RECORD DEFINITION
NOXSUPP,        DO NOT SUPPRESS SMFTYPE 118 RECORDS IN FTPSMFX
*XSUPP,         SUPPRESS SMFTYPE 118 RECORDS IN FTPSMFX EXIT
DNR,            PROVIDE DOMAIN NAME RESOLUTION(NSLOOKUP) FUNCTION
*NODNR,         DO NOT PROVIDE DOMAIN NAME RESOLUTION FUNCTION
RESPJOB=ON,     PROCESS RESPONSE_TIME_BY_JOBNAME
RESPPORT=ON,    PROCESS RESPONSE_TIME_BY_PORT
FTPXBUFFS=1000, ALLOCATE FTPEXIT CONTROL BLOCKS
TNPORTS=(23),  TELNET PORT - SAMPLE PACKETS FOR ENHANCED STATS
FTPPTS=(21),   FTP CONTROL PORT - SAMPLE PACKETS FOR ENHANCED STATS

```

Figure 3-2 TACPARM Sample BBSAMP Member (Part 2 of 2)

```
*DBGBUFS,      DEBUG PARAMETER FOR CSM STORAGE
*DBGCACH,      DEBUG PARAMETER FOR CACHE
*DBGCOMD,      DEBUG PARAMETER FOR COMMANDS (DROP/KILL)
*DBGCONF,      DEBUG PARAMETER FOR CONFIGURATION
*DBGCONS,      DEBUG PARAMETER FOR CONNECTIONS
*DBGDEVS,      DEBUG PARAMETER FOR DEVICES/LINKS
*DBGOSAD,      DEBUG PARAMETER FOR OSA
*DBGPING,      DEBUG PARAMETER FOR PING
*DBGPORT,      DEBUG PARAMETER FOR PORTS
*DBGROUT,      DEBUG PARAMETER FOR ROUTES
*DBGSLAP,      DEBUG PARAMETER FOR SLA POLICIES
*DBGSNMP,      DEBUG PARAMETER FOR SNMP
*DBGTRCE,      DEBUG PARAMETER FOR TRACEROUTE
*DBGVIPA,      DEBUG PARAMETER FOR VIPA
END
/*
```

Step 3 Save your changes.

Step 4 Submit the job.

Task 2.B—Creating SNMP Parameters

Summary: In this task, you will create the SNMP input parameters.

Before You Begin

A sample parameter file is provided with the distribution tape in member *hilevel.BBSAMP(TACSNMP)*. For information about the syntax rules of the parameter file, see “Task 2.A—Creating Input Parameters” on page 3-8.

You can use the SNMPDEF view to dynamically update SNMP parameters for each IP node that you want monitored through MAINVIEW for IP. For instructions on how to use SNMPDEF, see the *MAINVIEW for IP User Guide*.

To Create SNMP Input Parameters

- Step 1** Select `hilevel.BBSAMP(TACSNMP)`.
- Step 2** To customize the TACSNMP member, follow the instructions at the top of the TACSNMP member.

A sample of the member is shown in Figure 3-3.

Figure 3-3 TACSNMP Sample BBSAMP Member

```

/*
/* CHANGE LOG:
/*
/*          CREATED BY ?USER ON ?DATE AT ?TIME
/*
/*-----
//IEBGENER EXEC PGM=IEBGENER
//SYSPRINT DD  SYSOUT=*
//SYSUT2 DD   DISP=SHR,DSN=?BBCHILV.BBPARM(TACSNMP)
//SYSIN DD   DUMMY
//SYSUT1 DD   *
*
* * IN COL1 INDICATES COMMENT
*
* SNMP PARMS FOR MAINVIEW/IP
*
* FORMAT OF THE SNMP PARMS IS:
*
* DEFAULT_COMMUNITY='COMMUNITY NAME'
*
* SNMPNODE=('IPADDR','COMMUNITY NAME') OR
* SNMPNODE=('HOST NAME','COMMUNITY NAME')
*
* NOTE: COMMUNITY NAME IS CASE SENSITIVE.
*
* UNCOMMENT THE FOLLOWING AND CHANGE/ADD IP NODES.
*
*DEFAULT_COMMUNITY=public,
*SNMPNODE=(111.222.333.444,public),
*SNMPNODE=(HOSTNAME,public),
END
END SNMP PARMS
/*

```

- Step 3** Save your changes.
- Step 4** Submit the job.

Task 2.C—Creating IP Pacing Parameters

Summary: In this task, you will create the IP pacing input parameters.

Before You Begin

A sample parameter file is provided with the distribution tape in member *hilevel.BBSAMP(TACPACE)*. For information about the syntax rules of the parameter file, see “Task 2.A—Creating Input Parameters” on page 3-8.

To Create IP Pacing Input Parameters

- Step 1** Select *hilevel.BBSAMP(TACPACE)*.
- Step 2** To customize the TACPACE member, follow the instructions at the top of the TACPACE member.

A sample of the member is shown in Figure 3-4.

Figure 3-4 TACPACE Sample BBSAMP Member

```

/*
/* CHANGE LOG:
/*
/*          CREATED BY ?USER ON ?DATE AT ?TIME
/*
/*-----
//IEBGENER EXEC PGM=IEBGENER
//SYSPRINT DD  SYSOUT=*
//SYSUT2 DD   DISP=SHR,DSN=?BBCHILV.BBPARM(TACPACE)
//SYSIN DD   DUMMY
//SYSUT1 DD   *
*
END          END PACING PARMS
/*

```

- Step 3** Save your changes.
- Step 4** Submit the job.

Task 2.D—Creating the MAINVIEW for IP Product Address Space

Summary: In this task, you will create the MAINVIEW for IP PAS.

Before You Begin

To customize MAINVIEW for IP, you must create the MAINVIEW for IP PAS startup procedure. To start the MAINVIEW for IP PAS, you must create a procedure in your system procedure library. When creating the PAS procedure, you must define the same subsystem name in the subsystem ID (SSID) subparameter that is defined in the CAS PROC. The SSID value is used by the PAS during initialization to identify the CAS to which it connects.

To Create the MAINVIEW for IP PAS

- Step 1** Select *hilevel.BBSAMP*(TACPAS).
- Step 2** To customize the TACPAS procedure, follow the instructions at the top of the TACPAS member.

A sample of the member is shown in Figure 3-5.

Figure 3-5 TACPAS Sample BBSAMP Member (Part 1 of 2)

```

/**
/**  CHANGE LOG:
/**
/**      CREATED BY ?USER ON ?DATE AT ?TIME
/**
/**-----
/**
/**  NOTE: ANY REGION SIZE GREATER THAN 16 MEGS AND LESS THAN
/**        32 MEGS, CAUSES MVS TO MAKE AVAILABLE ALL STORAGE BELOW
/**        THE 16 MEG LINE AND 32 MEGS OF STORAGE (THE IBM DEFAULT)
/**        ABOVE THE LINE.
/**-----
/**MVTCPPIP  PROC REG=0,
/**          BBLINK='?BBLINK',
/**          BBCHILV='?BBCHILV'
/**-----
/**TACMDSP4 EXEC PGM=TACMDSP4,REGION=&REG.M,TIME=1440,
/**          PARM=('SSID=?SSID',                <----- SUBSYSTEM ID
/**          'SVCPTDEF=TAC9AASP',
/**          'XDM=NO'),
/**          ACCT=                                <----- ACCOUNTING INFORMATION
/**-----
/** SSID - ?SSID          (THIS PARAMETER HAS NO DEFAULT VALUE)      *
/**                                                                *
/**          SPECIFIES THE SUBSYSTEM ID USED TO IDENTIFY THE MAINVIEW *
/**          COORDINATING ADDRESS SPACE (CAS).  THIS PAS USES THE SSID *
/**          PARAMETER TO CONNECT TO THE CORRECT CAS, SO THE SAME VALUE *
/**          MUST BE SPECIFIED BOTH FOR THIS SSID PARAMETER AND FOR THE *
/**          CAS SSID PARAMETER.                                       *
/**-----
/**STEPLIB DD  DISP=SHR,DSN=&BBLINK

```

Figure 3-5 TACPAS Sample BBSAMP Member (Part 2 of 2)

```

/**
/** PACKET TRACE MODULES.
/**
/**PKTTRACE DD DISP=SHR,DSN=TCPIP.SEZALINK <--FOR Z/OS 1.3 AND BELOW
/**PKTTRACE DD DISP=SHR,DSN=TCPIP.SEZALOAD <--FOR Z/OS 1.4 --
/**
/** ACTION DEFINITION TABLES.
/**
/**BBACTDEF DD DISP=SHR,DSN=&BBCHILV..BBACTDEF
/**
/** VIEW DEFINITIONS.
/**
/**BBVDEF DD DISP=SHR,DSN=&BBCHILV..BBVDEF
/**
/** PARM DEFINITIONS.
/**
/**BBIPARM DD DISP=SHR,DSN=&BBCHILV..BBIPARM
/**
/** PASSWORD.
/**
/**BMCPSWD DD DISP=SHR,DSN=&BBCHILV..BMCPSWD
/**
/** SAS/C OUTPUT MESSAGES...
/**
/**SYSTEM DD SYSOUT=*
/**
/** PRODUCT INPUT PARMS.
/**
/**SYSIN DD DISP=SHR,DSN=&BBCHILV..BBIPARM(TACPARM)
/**
/** SNMP INPUT PARMS.
/**
/**SNMPPARM DD DISP=SHR,DSN=&BBCHILV..BBIPARM(TACSNMP)
/**
/** IP PACING PARMS.
/**
/**IPPCPARM DD DISP=SHR,DSN=&BBCHILV..BBIPARM(TACPACE)
/**
/** HISTORY VSAM FILES.
/**
/**HISTDS00 DD DISP=SHR,DSN=&BBCHILV..HISTDS00
/**HISTDS01 DD DISP=SHR,DSN=&BBCHILV..HISTDS01
/**HISTDS02 DD DISP=SHR,DSN=&BBCHILV..HISTDS02
/**
/** *NOTE* - THIS MAY REQUIRE CHANGE !!!
/**
/** TCPIP CONFIGURATION DATASET
/** IF THIS IS A PDS, YOU MUST CODE TCPIP.TCPIP.DATA(TCPDATA)
/**
/**
/**SYSTCPD DD DISP=SHR,DSN=TCPIP.TCPIP.DATA <<<=== YOUR DSN/MBR
/**
/** DEBUG DATASETS.
/**
/**UCONFDBG DD SYSOUT=*
/**UPORTDBG DD SYSOUT=*
/**UROUTDBG DD SYSOUT=*
/**UTRCEDBG DD SYSOUT=*
/**UPINGDBG DD SYSOUT=*
/**UEVSDBG DD SYSOUT=*
/**UCONSDBG DD SYSOUT=*
/**UVIPADBG DD SYSOUT=*
/**USNMPDBG DD SYSOUT=*
/**UCOMDDBG DD SYSOUT=*
/**USLAPDBG DD SYSOUT=*
/**UCACHDBG DD SYSOUT=*
/**UBUFSDBG DD SYSOUT=*
/**UOSADDBG DD SYSOUT=*

```

Step 3 Save your changes.

Step 4 Copy the member to your procedure library.

Task 2.E—Creating the Password Library

Summary: In this task, you will create the MAINVIEW for IP password library.

To create the MAINVIEW for IP password library, perform the following steps:

- Step 1** Select *hilevel.BBSAMP(TACLIB)*.
- Step 2** To customize the TACLIB member, follow the instructions at the top of the TACLIB member.

A sample of the member is shown in Figure 3-6.

Figure 3-6 TACLIB Sample BBSAMP Member

```

/**
/** CHANGE LOG:
/**
/**      CREATED BY ?USER ON ?DATE AT ?TIME
/**
/**-----
/**//IEFBR14 EXEC PGM=IEFBR14
/**//DELETE DD DISP=(MOD,DELETE),DSN=?BBCHILV.BMCP SWD,
/**//      UNIT=SYSDA,SPACE=(TRK,0)
/**-----
/**IEFBR14 EXEC PGM=IEFBR14
/**CATLG DD DISP=(NEW,CATLG),DSN=?BBCHILV.BMCP SWD,
/**      DCB=(RECFM=U,LRECL=0,BLKSIZE=19069),
/**      UNIT=SYSDA,SPACE=(TRK,(5,5,5))

```

- Step 3** Save your changes.
- Step 4** Submit the job.

Task 2.F—Creating the History Data Set

Summary: In this task, you will create the data set that contains the output from the historical data recorder.

To create the history data set, perform the following steps:

- Step 1** Select *hilevel.BBSAMP(TACHIS)*.
- Step 2** To customize the TACHIS member, follow the instructions at the top of the TACHIS member.

A sample of the member is shown in Figure 3-7.

Figure 3-7 TACHIS Sample BBSAMP Member (Part 1 of 2)

```

/**
/**  CHANGE LOG:
/**
/**      CREATED BY ?USER ON ?DATE AT ?TIME
/**
/**-----
/**
/** THIS JOB ALLOCATES THREE VSAM HISTORICAL DATA SETS FOR
/** USE BY THE HISTORICAL DATA RECORDER.
/**
/** IF ANY ERRORS ARE ENCOUNTERED, PLEASE CORRECT AND RESUBMIT THE
/** ENTIRE JOB. DO NOT CONTINUE TO THE NEXT STEP UNTIL THIS JOB
/** COMPLETES SUCCESSFULLY.
/**
/** - CHANGE ALL INSTANCES OF ?BBASMFID TO THE SMF ID (SYSTEM ID)
/**   OF THE TARGET SYSTEM. IF YOU EXECUTE MULTIPLE PRODUCT ADDRESS
/**   SPACES (PAS) ON A SINGLE IMAGE, USE ANOTHER QUALIFIER SUCH AS
/**   THE PAS IDENTIFIER.
/**
/** - CHANGE ALL INSTANCES OF 111111 TO THE VOLUME NAME WHERE THE
/**   DATA SETS WILL BE ALLOCATED. REVIEW THIS ON A DATA SET NAME
/**   LEVEL.
/**
/** - CHANGE ?CYL0 TO THE NUMBER OF CYLINDERS TO BE ALLOCATED FOR
/**   THE PRIMARY HISTORICAL DATA SET.
/**
/** - CHANGE ?CYL1 TO THE NUMBER OF CYLINDERS TO BE ALLOCATED FOR
/**   A SECONDARY HISTORICAL DATA SET.
/**
/** - CHANGE ?CYL2 TO THE NUMBER OF CYLINDERS TO BE ALLOCATED FOR
/**   A SECONDARY HISTORICAL DATA SET.
/**
/** - MODIFY CHANGE LOG TO REFLECT WHEN THIS MEMBER WAS ALTERED.
/**
/**DELETE EXEC PGM=IDCAMS,REGION=4M
/**SYSPRINT DD SYSOUT=*
/**SYSIN DD *
DELETE ?BBCHILV.?BBASMFID.HISTDS00 -
PURGE
DELETE ?BBCHILV.?BBASMFID.HISTDS01 -
PURGE
DELETE ?BBCHILV.?BBASMFID.HISTDS02 -
PURGE
SET MAXCC=0
/**

```

Figure 3-7 TACHIS Sample BBSAMP Member (Part 2 of 2)

```

/**
//DEFINE EXEC PGM=IDCAMS,REGION=4M
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
DEFINE CLUSTER (NAME(?BBCHILV.?BBASMFID.HISTDS00) -
RECORDSIZE(4200 32000) -
VOLUMES(111111) /* <----- CHANGE */ -
KEYS(28 24) -
SHR(3,3) -
REUSE) -
DATA
-
(NAME(?BBCHILV.?BBASMFID.HISTDS00.DATA) -
CYLINDERS(?CYL0)) -
INDEX
-
(NAME(?BBCHILV.?BBASMFID.HISTDS00.INDX) -
CISZ(4096) -
CYLINDERS(1))

DEFINE CLUSTER (NAME(?BBCHILV.?BBASMFID.HISTDS01) -
RECORDSIZE(4200 32000) -
VOLUMES(111111) /* <----- CHANGE */ -
KEYS(28 24) -
SHR(3,3) -
REUSE) -
DATA
-
(NAME(?BBCHILV.?BBASMFID.HISTDS01.DATA) -
CYLINDERS(?CYL1)) -
INDEX
-
(NAME(?BBCHILV.?BBASMFID.HISTDS01.INDX) -
CISZ(4096) -
CYLINDERS(1))

DEFINE CLUSTER (NAME(?BBCHILV.?BBASMFID.HISTDS02) -
RECORDSIZE(4200 32000) -
VOLUMES(111111) /* <----- CHANGE */ -
KEYS(28 24) -
SHR(3,3) -
REUSE) -
DATA
-
(NAME(?BBCHILV.?BBASMFID.HISTDS02.DATA) -
CYLINDERS(?CYL2)) -
INDEX
-
(NAME(?BBCHILV.?BBASMFID.HISTDS02.INDX) -
CISZ(4096) -
CYLINDERS(1))

/*
/**
/**
//SEED EXEC PGM=IDCAMS,REGION=4M
//SYSPRINT DD SYSOUT=*
//IN1 DD DISP=SHR,DSN=?BBCHILV.BBILIB(@@YZZ052)
//SYSIN DD *
REPRO INFILE (IN1) -
OUTDATASET(?BBCHILV.?BBASMFID.HISTDS00)
REPRO INFILE (IN1) -
OUTDATASET(?BBCHILV.?BBASMFID.HISTDS01)
REPRO INFILE (IN1) -
OUTDATASET(?BBCHILV.?BBASMFID.HISTDS02)

/*
//

```

Step 3 Save your changes.

Step 4 Submit the job.

History Interval

If you have allocated historical data sets, historical reporting begins as soon as the PAS is initialized. Data is recorded at the interval that is specified in the *hilevel*.BBPARM data set member TACTIR00. The following parameters are in TACTIR00:

- INTVAL is the length of the interval that data is collected (in minutes).
- SYNCVAL is the number of minutes after the hour for the first interval of the hour to start.

The INTVAL and SYNCVAL settings trigger end-of-interval processing.

To change the parameters, copy the TACTIR00 member to *hilevel*.UBBPARM(TACTIR00) and make changes. You can also specify SMF to synchronize the collection time with the SMF interval. The default SMF interval is 15 minutes.

Table 3-3 lists values that can be specified for INTVAL and SYNCVAL.

Table 3-3 History Interval Values

Parameter	Default Value	Acceptable Values
INTVAL	SMF Note: If INTVAL="SMF" is specified, the SYNCVAL parameter is ignored.	SMF or <i>nn</i> <i>nn</i> must be an integer of 60: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60
SYNCVAL	00 The interval starts at the beginning of the hour.	00 or INTVAL-1

By default, intervals are synchronized on the hour (SYNCVAL="00"). For example, if INTVAL is specified as 15 minutes, and extraction begins at 7:49 A.M., the first interval lasts 11 minutes until 8:00 A.M. Successive intervals are 8:00 to 8:15, 8:15 to 8:30, and so on.

A sample of the TACTIR00 member is shown in Figure 3-8.

Figure 3-8 TACTIR00 Sample BBPARM Member

```
<INTERVAL INTVAL="15" SYNCVAL="0"/>
```

Task 2.G—Editing the Batch Jobs

Summary: In this task, you will edit the batch jobs that install your bypass Product Authorization password in the product authorization load module.

To edit the batch jobs, perform the following steps:

- Step 1** Select *hilevel.BBSAMP(TACSEC)*.
- Step 2** To customize the TACSEC member, follow the instructions at the top of the TACSEC member.

A sample of the member is shown in Figure 3-9.

Figure 3-9 TACSEC Sample BBSAMP Member (Part 1 of 2)

```

/**
/** CHANGE LOG:
/**
/**      CREATED BY ?USER ON ?DATE AT ?TIME
/**
/**-----
/**
/** VALID KEYWORDS AND EXAMPLES ARE:
/**
/**      PSWD      ==>  PSWD=XXX,XXX,XXX,XXX
/**                      WHERE XXX,XXX,XXX,XXX IS THE PASSWORD
/**
/**      OLDCPUID ==>  OLDCPUID=SSSSS-MMMM
/**                      WHERE SSSSS IS THE CPU SERIAL NUMBER OF
/**                      YOUR "OLD" CPU
/**                      MMMM IS THE CPU MODEL NUMBER OF
/**                      YOUR "OLD" CPU
/**      THE "OLDCPUID" KEYWORD IS USED WITH "DELETE", "REPLACE",
/**      AND "MODIFY" PASSWORDS.
/**
/**      NEWCPUID ==>  NEWCPUID=CCCCC-NNNN
/**                      WHERE CCCCC IS THE CPU SERIAL NUMBER OF
/**                      YOUR "NEW" OR CURRENT CPU
/**                      NNNN IS THE CPU MODEL NUMBER OF
/**                      YOUR "NEW" OR CURRENT CPU
/**      THIS KEYWORD IS USED WITH "ADD" AND "REPLACE PASSWORDS
/**
/**      LIST      ==>  LIST
/**      THIS KEYWORD WILL LIST ALL OF THE ENTRIES IN THE
/**      PRODUCT AUTHORIZATION TABLE.
/**
/**
/** KEYWORD SYNTAX FOR PSWD, NEWCPUID, OLDCPUID:
/** THE SYNTAX FOR THE PSWD, NEWCPUID, AND OLDCPUID KEYWORDS IS
/** FREE FORM. THESE KEYWORDS MAY START IN ANY COLUMN AND IN ANY
/** ORDER AS LONG AS THE STATEMENT DOES NOT EXCEED COLUMN 72.
/** ALL KEYWORDS MUST BE SPECIFIED ON A SINGLE LINE WITHOUT
/** COMMENTS. THE SYSIN CONTROL STATEMENT CAN NOT BE CONTINUED.
/** MULTIPLE SYSIN CONTROL STATEMENTS CAN BE PROCESSED IN A
/** SINGLE JOB STEP.
/**

```

Figure 3-9 TACSEC Sample BBSAMP Member (Part 2 of 2)

```

/** KEYWORD SYNTAX FOR LIST:                               *
/**   THE LIST KEYWORD CAN NOT BE SPECIFIED WITH ANY OTHER KEYWORD. *
/**   IF SPECIFIED IN CONJUNCTION WITH OTHER KEYWORDS, IT WILL BE *
/**   IGNORED AND WILL NOT BE PROCESSED. THE LIST KEYWORD SHOULD *
/**   NOT EXCEED COLUMN 72. *
/** *
/** EXAMPLES: *
/** *
/**PROCESS AN "ADD" PASSWORD: *
/**   PSWD=123,456,789,ABC      NEWCPUID=98765-4321 *
/** *
/**PROCESS A "DELETE" PASSWORD: *
/**   PSWD=123,456,789,ABC      OLDCPUID=98765-4321 *
/** *
/**PROCESS A "MODIFY" PASSWORD: *
/**   PSWD=123,456,789,ABC      OLDCPUID=98765-4321 *
/** *
/**PROCESS A "REPLACE" PASSWORD: *
/**   PSWD=123,456,789,ABC OLDCPUID=98765-4321 NEWCPUID=98777-4321 *
/** *
/**PROCESS A "TEMPORARY" PASSWORD: *
/**   PSWD=123,456,789,ABC *
/** *
/**REPORT PROCESSOR INFORMATION AND AUTHORIZATION: *
/**   LIST *
/** *
/******* *
/** *
/**SECSEC3B EXEC PGM=SECSEC3B,PARM=BFX *
/** *
/**STEPLIB DD DISP=SHR,DSN=?BBLINK *
/**SYSPRINT DD SYSOUT=* *
/**SYSLIB DD DISP=SHR,DSN=?BBCHILV.BMCPSWD *
/**SYSIN DD * *
/**   LIST *
/** *

```

Step 3 Save your changes.

Step 4 Submit the job.

Chapter 4 Additional Customization

This chapter provides more information about customizing MAINVIEW for IP for operation in your environment. This chapter contains the following sections:

Customizing MAINVIEW for IP to Collect OSA Data	4-2
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Customization Tasks.	4-2
Implementing FTP Server Data Collection	4-3

Customizing MAINVIEW for IP to Collect OSA Data

MAINVIEW for IP provides an OSA Cards menu that you can use to access views about Open Systems Adapter (OSA) devices. Before you can use the OSA Cards menu and views, ensure that your operating system meets the minimum requirements and complete the required customization tasks.

Operating System Requirements

Before you can set up OSA, your operating system must be z/OS 1.2 or later.

Customization Tasks

To enable data collection for the OSA views when your operating system is z/OS 1.2 or z/OS 1.3, complete the tasks that are described in Table 4-1.

Table 4-1 OSA Customization Tasks for z/OS 1.2 or 1.3

Task	Description	IBM Publication
1	Configure the OSA support.	<i>z/OS Communications Server: IP Configuration Guide</i>
2	Set up OSA/Support Facility on the server.	<i>S/390: OSA-Express Customer's Guide and Reference</i>
3	Set up the SNMP TCP/IP subagent.	<i>S/390: OSA-Express Customer's Guide and Reference</i>

To enable data collection for the OSA views when your operating system is z/OS 1.4 or later, complete the tasks that are described in Table 4-2.

Note: When you use OSA-Express Direct Support, the IOBSNMP address space is required to run with OSNMPD.

Table 4-2 OSA Customization Tasks for z/OS 1.4 or Later

Task	Description	IBM Publication
1	Configure the OSA support.	<i>z/OS Communications Server: IP Configuration Guide</i>
2	Set up the SNMP TCP/IP subagent.	<i>S/390: OSA-Express Customer's Guide and Reference</i>

Implementing FTP Server Data Collection

MAINVIEW for IP collects file transfer protocol (FTP) server statistics by using an exit point (defined by IBM) and an exit—FTPSMFEX—that is provided by BMC Software.

Before You Begin

Before implementing FTP data collection, review the following considerations:

- If you are implementing FTP server data collection for the first time, and the FTPSMFEX exit already exists in your system, you must rename the original exit to USRSMFEX before you add the FTPSMFEX exit that is provided by BMC Software.
- If the RACF facility class BPX.DAEMON is defined, the FTPSMFEX module must be program controlled. If the module is not program controlled, error messages are issued, and logons to the FTP server fail.
- If you do not record system management facility (SMF) files but you want to display FTP statistics, you must code SMF STD in the FTP.data file (SYSFTPD in the FTP server procedure) and add the FTPSMFEX exit.
- If you make changes to the TCP/IP SMF parameters (FTPDATA) member, you must recycle the TCP/IP stack and the FTP server that was changed. BMC Software recommends that you recycle the MAINVIEW for IP product address space (PAS).

To Implement FTP Data Collection

1. If one does not already exist, add a step library data definition (DD) statement to any FTP servers that support this statement.

You can use a separate load library or the MAINVIEW for IP load library. The data set must be Authorized Program Facility (APF) authorized.

2. Copy the exit module from the MAINVIEW for IP load library to the data set that is described in Step 1.

Note: This step is not required if you plan to use the MAINVIEW for IP load library.

3. Add the statement SMFEXIT to the FTP.data file (SYSFTPD in the FTP server procedure).
4. Ensure that SMF type 118 records are written by that system.

For a list of SMF records that will be written by the specific OS/390 or z/OS system, see SYS1.PARMLIB(SMFPRMxx).

Tip: To turn on type 118 records without an initial program load (IPL), “reset” the SMF parameters dynamically by issuing the command **T SMF=xx**. The value of *xx* is the suffix that is used in SYS1.PARMLIB(SMFPRMxx) where the type 118 record was added.

5. To ensure that the running FTP server is customized for writing SMF type 118 records, add the statement FTP STD to the FTP.data file (SYSFTPD in the FTP server procedure).

For more information, see the IBM publication *z/OS Communications Server: IP Configuration Reference*.

Chapter 5 Startup Parameters

This chapter describes startup parameters that you can use with MAINVIEW for IP. This chapter contains the following sections:

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XSUPP—Exit Suppression	5-7

Conventions

The startup parameters are listed alphabetically to help you find them more easily. In the startup procedure, you can use them in any order.

Note: If you are using more than five parameters in the MAINVIEW for IP startup procedure, the SYSIN DD statement removes the limitation of 100-byte parameter strings. For more information about using the SYSIN data set for parameter specification, see Chapter 3, “Installation Customization.”

These startup parameters are in *hilevel.TACPARM*. The syntax uses the following conventions:

- Items in italics are variables for which you must supply a value. For example, in `HALT subsysid`, you must supply the correct subsystem ID name.
- When two or more items are separated by a vertical line, you must select only one item. For example, in `Z | HALT subsysid,CANCEL`, you would use `Z` or `HALT` but not both.

Parameters

This section lists the parameters that you can use in MAINVIEW for IP.

DNR—Enable Domain Name Resolution Function

This parameter enables the domain name resolution (DNR) function. The DNR function resolves an IP address to a domain name, and provides the IP address of a domain name. DNR is the default parameter.

FTPPTS—Specify FTP Control Ports

You can use this parameter to specify the file transfer protocol (FTP) control ports. FTPPTS is specified as FTPPTS=(*nnnn,nnnn,nnnn,nnnn*). Each value of *nnnn* represents one control port per FTP server. You can specify up to four explicit FTP control ports. MAINVIEW for IP samples the specified ports for FTP-specific traffic and reports response times statistics appropriately. You do not need to specify the data ports; MAINVIEW for IP reviews them if the control ports have been specified. The default control port is 21.

FTPXBUFFS—Allocate FTP Exit Control Blocks

MAINVIEW for IP collects FTP statistics by using an exit point (defined by IBM) and an exit—FTPSMFEX—that is provided by BMC Software. The statistics are stored in buffers before being written by the interval recorder. The FTPXBUFFS parameter allocates control blocks for recording file transfer information. The default number of control blocks is 1000.

NODNR—Disable Domain Name Resolution Function

This parameter disables the DNR function. The DNR function resolves an IP address to a domain name, and provides the IP address of a domain name. The NODNR parameter causes the product to start without the DNR functionality.

NOPACE—Disable IP Pacing

This parameter disables the IP pacing function. The NOPACE parameter causes the product to start without the IP pacing functionality. NOPACE is the default parameter.

NOSAMP—Disable IP Packet Sampling

This parameter disables the collection of additional statistics for each connection (Web, FTP, TN3270, and so on). NOSAMP is the default parameter. When this parameter is specified, the collected Telnet response times are TCP “round trip time;” short connections may not be collected. The FTP statistics are collected by the FTPSMFEX exit only.

Note: To take advantage of all the FTP collection capabilities, BMC Software recommends that you enable the SAMP parameter. For more information, see “SAMP—Enable IP Packet Sampling” on page 5-5.

NOXSUPP—No Exit Suppression

MAINVIEW for IP collects FTP statistics by using an IBM-defined exit point and an exit that is provided by BMC Software. The exit point is activated by requesting SMF logging of type 118 records in the FTP server. The SMF records can be suppressed or allowed by the EXIT. NOXSUPP (do not suppress the exit) is the default parameter.

PACE—Enable IP Pacing

This parameter enables the IP pacing function. You can use IP pacing to delay (or “pace”) outbound data from any TCP/IP application to provide more processing time to business critical applications.

Note: To use IP pacing when pacing is enabled, you must add IP pacing entries (job names) on the IPPACCFG view.

PKTNWRAP—Disable Packet Trace Wrapping

This parameter indicates that a packet trace will stop when the end of the trace table is reached.

PKTTRLEN—Specify Size of Packet Trace Table

You can use this parameter to specify the size of the packet trace table. The value that is specified can be in bytes, kilobytes (with *K* following the numeric value), or megabytes (with *M* following the numeric value). For example, to specify a table size of 3 megabytes, type one of the following values: **3000000**, **3000K**, or **3M**. The minimum size is 500K. The default table size is 4 megabytes.

PKTWRAP—Enable Packet Trace Wrapping

This parameter indicates that a packet trace will wrap to the beginning of the trace table when the end of the trace table is reached. When the trace table wraps, packet trace data at the beginning of the table is overwritten. PKTWRAP is the default parameter.

RESPJOB—Collect Jobname Response Time Data

This parameter collects response time information by job name. RESPJOB can be entered in the format RESPJOB=ON | OFF. The default value is ON.

RESPPORT—Collect Port Response Time Data

This parameter collects response time information by port. RESPPORT can be entered in the format RESPPORT=ON | OFF. The default value is ON.

SAMP—Enable IP Packet Sampling

This parameter enables collection of additional statistics for each connection (Web, FTP, TN3270, and so on). To enable IP packet sampling at product initialization, specify the SAMP parameter.

SKTNWRAP—Disable Socket Trace Wrapping

This parameter indicates that a socket trace will stop when the end of the trace table is reached.

SKTTRLEN—Specify Size of Socket Trace Table

You can use this parameter to specify the size of the socket trace table. The value that is specified can be in bytes, kilobytes (with *K* following the numeric value), or megabytes (with *M* following the numeric value). For example, to specify a table size of 3 megabytes, type one of the following values: **3000000**, **3000K**, or **3M**. The minimum size is 500K. The default table size is 4 megabytes.

SKTWRAP—Enable Socket Trace Wrapping

This parameter indicates that a socket trace will wrap to the beginning of the trace table when the end of the trace table is reached. When the trace table wraps, socket trace data at the beginning of the table is overwritten. SKTWRAP is the default parameter.

SMFREC—Set Type of SMF Record

You can use this parameter to specify what type of SMF record to put in the SMF data set. SMFREC is specified as **SMFREC=*nnn**x***. The value *nnn* is the user SMF record type 128 to 255, and *x* is the record description. For example, to specify that SMF records be designated as type 252C (connections and response time information), list **SMFREC=252C** in your startup parameters.

If your data center has not allowed SMF to record the *nnn* record type, you are prompted to specify a record type that is included in the SMF parameter definition which is in 'SYS1.PARMLIB(SMFPRM*xx*)'.

For information about SMF records, setting up the SMF data set, and specifying the SMF record type numbers, see the IBM System Management Facilities documentation.

BMC Software provides sample SAS programs in *hilevel.BBSAMP* to format the information that is recorded to SMF. For a list of the SAS program members that are available in *hilevel.BBSAMP*, see the *MAINVIEW for IP User Guide*.

TNPORTS—Specify Telnet Ports

You can use this parameter to specify your Telnet and non-Telnet ports. TNPORTS also collects response time monitor (RTM) data using a Telnet model. TNPORTS can be specified as `TNPORTS=(nnnn,nnnn,nnnn,nnnn,nnnn,nnnn,nnnn,nnnn)` or `TNPORTS=*`. Each value of *nnnn* represents a port that is defined to a Telnet server. The value of *** is the explicit port definition. If you specify `TNPORTS=*`, MAINVIEW for IP will review all IP traffic as interactive and will report traffic and response times based on the model. If FTP control ports have been specified using FTPORTS, those ports are treated as FTP traffic.

You can specify up to eight Telnet and non-Telnet ports. MAINVIEW for IP reviews the specified ports for Telnet-specific traffic and reports response times statistics appropriately. If you specify non-Telnet ports, MAINVIEW for IP reviews the traffic on the port as if it was interactive traffic; traffic and response times are based on the Telnet model. The default port is 23.

XSUPP—Exit Suppression

MAINVIEW for IP collects FTP statistics using an IBM-defined exit point and an exit that is provided by BMC Software. The exit point is activated by requesting SMF logging of type 118 records in the FTP server. The SMF records can be suppressed by the exit. To suppress the SMF records, specify the XSUPP parameter.

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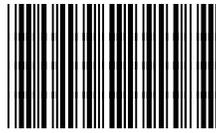
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