

**B I MOYLE ASSOCIATES, INC.**

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# **B I M - F A Q S / A S O**

## **AUTOMATED OPERATIONS**

### **TRIAL GUIDE**

**Release 5.1**

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BIM-FAQS/ASO.

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# About This Guide

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This chapter provides an overview of the *Trial Guide* and describes the product components, documentation set, and conventions used within the guide.

## Purpose

The purpose of the *Trial Guide* is to provide you with an introduction to some of the major BIM-FAQS/ASO functions and features and commonly asked questions about BIM-FAQS/ASO. The *Trial Guide* takes you through the product in a step-by-step fashion, highlighting selected product features.

## Who Should Use This Guide

The *Trial Guide* is a helpful resource for:

- First-time BIM-FAQS/ASO users
- Anyone with limited exposure to BIM-FAQS/ASO

## Organization

This guide is organized into the following chapters:

Chapter	Description
1	Introduces the BIM-FAQS/ASO product features.
2	Describes BIM-FAQS/ASO installation and startup, and the online interface startup.
3	Describes how to perform the following tasks: <ul style="list-style-type: none"> <li>• Setting up security</li> <li>• Displaying the system console</li> <li>• Tailoring the console display</li> <li>• Displaying POWER queue information</li> <li>• Opening a temporary command line</li> </ul>
4	Introduces the following tasks: <ul style="list-style-type: none"> <li>• Managing actions and action files</li> <li>• Replying to messages</li> <li>• Masking messages</li> <li>• Defining console PF keys</li> <li>• Defining console commands</li> </ul>
5	Describes how to create and execute BIM REXX procedures called IMODs.
6	Defines filters used to control the appearance and functionality of the BIM-FAQS/ASO console.
Appendix A	Provides the possible error messages generated by the installation jobstream.
Appendix B	Provides sample configurations for BIM-FAQS/ASO depending on your system environment.

## How To Use This Guide

To use this guide most effectively:

- Read through the manual chapter by chapter, starting with this chapter
- Perform the procedures in each chapter in a step-by-step fashion
- Use online panels (when applicable) along with the text or examples
- Try all of the examples we recommend
- Try some or all of the additional examples on your own

## Publications

The documentation set provided with BIM-FAQS/ASO consists of:

- BIM-FAQS common guides
- BIM-FAQS/ASO guides

### BIM-FAQS Common Guides

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Guide	Contents
<i>Installation and Initialization Guide</i>	Information you need to install and initialize the BIM-FAQS products
<i>Messages Guide</i>	A list of messages and codes you might encounter using the BIM-FAQS products, and an explanation and action for each one

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### Product-Specific Documentation

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Guide	Contents
<i>Online User's Guide</i>	Information on how to use the BIM-FAQS/ASO Online transaction to control your VSE system and communicate with other programs running as online interfaces.
<i>Trial Guide</i>	Introduces the major components of BIM-FAQS/ASO, and provides a step-by-step overview of selected product functions and features.
<i>User's Guide</i>	Information on how to perform the day-to-day operations of automated systems operations for VSE using BIM-FAQS/ASO.

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## Conventions Used in This Guide

The following table lists and explains the conventions used throughout this manual when command format or JCL statement format is shown:

Convention	Explanation	Example
UPPERCASE TYPE	Any part of a command or JCL statement in uppercase type must be typed exactly as it is shown.	The following command must be typed exactly as shown:  EVLOAD
lowercase <i>italic</i> type	Any part of a command or JCL statement in lowercase italic type must be replaced with specific variable information.	<i>hh:mm</i> must be replaced with the number of hours ( <i>hh</i> ) and minutes ( <i>mm</i> ) between occurrences:  FREQ <i>hh:mm</i>
lowercase nonitalic	Any part of a command or JCL statement in lowercase nonitalic type must be replaced with one of a limited number of choices in that position.	ro must be replaced with a valid relational operand such as EQ, LT, GT, LE, or GE:  // IF USERn ro <i>value cmd</i>
<b>Bold</b> type	Enter the bolded item. Type the command exactly as it's shown and press ENTER.	<b>D C</b>
Parentheses ( )	Parentheses must be typed wherever they appear.	The parentheses shown must be typed when you enter this command:  cond=val (px ro valx)
Brackets [ ]	Any part of a command or JCL statement surrounded by brackets is optional. <i>Do not type the brackets when you enter the command or JCL statement.</i>	You can specify a CPU ID, or you can enter the command without a specific CPU ID:  CPU [ <i>cpuid</i> ]
Vertical bars	Vertical bars separate options from which you can select. Do not type the vertical bar when you enter the command or JCL statement.	You can select either YES or NO:  HOLD [YES NO]

## Diagnostic Procedures

Refer to the table below for a summary of the procedures you should follow if you have a problem with a BIM software product. Each of these procedures is detailed on the following pages.

Step	Action
1	Categorize the problem and collect data. See “Collecting Diagnostic Data.”
2	Try to identify the problem. See “Interpreting Diagnostic Data.”
3	Collect diagnostic data and call support. See “Calling Technical Support.”
4	Work with Technical Support to solve the problem.

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## Collecting Diagnostic Data

In the table below, use the left column to categorize the problem your site has encountered. Then, follow the instructions in the corresponding right column to generate useful diagnostic data.

<b>For</b>	<b>Be Sure to Check</b>
Installation errors	All output produced by MSHP when the product was installed.
Screen errors	Copies of the screens in error. Listings of all user-coded BIM-FAQS/ASO interfaces in use.
BIM-FAQS/PCS abends	The CICS generated dump. All JCL, console logs and messages for the failure. Listings of all user-coded BIM-FAQS/ASO interfaces in use.
User-initiated functions	Check the console logs, all JCL, listings, and screens for failure. Listings of all user-coded BIM-FAQS/ASO interfaces in use.

## Interpreting Diagnostic Data

After collecting the specified diagnostic data, write down answers to the following questions:

- What was the sequence of events prior to the error condition?
- What circumstances existed when the problem occurred and what action was taken?
- Has this situation occurred before? What was different then?
- Did the problem occur after a particular PTF was applied or after a new release of the software was installed?
- Was a new release of the operating system installed recently?
- Has the hardware configuration (tape drives, disk drives, and so forth) changed?

From the answers to these questions and the diagnostic data, try to identify the cause and resolve the problem. If it is determined that the problem is a result of an error in a BIM software product, contact BIM Technical Support.

## Calling Technical Support

B I Moyle Associates Inc. provides telephone support for all its products.

If you are in North America, call (612)-933-2885. Outside North America, call your local BIM Software Agent.

Please have the following information ready before contacting BIM Technical Support:

- All the diagnostic information described in "Collecting Diagnostic Data." Product name, product code and release number.
- Product name and release number of any other software you suspect is involved.
- Release level and PUTLEVEL of the operating system.
- Your name, telephone number and extension (if any).
- Your company name.

# Chapter 1

## What Is BIM-FAQS/ASO?

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This chapter provides an overview of BIM-FAQS/ASO.

### Product Overview

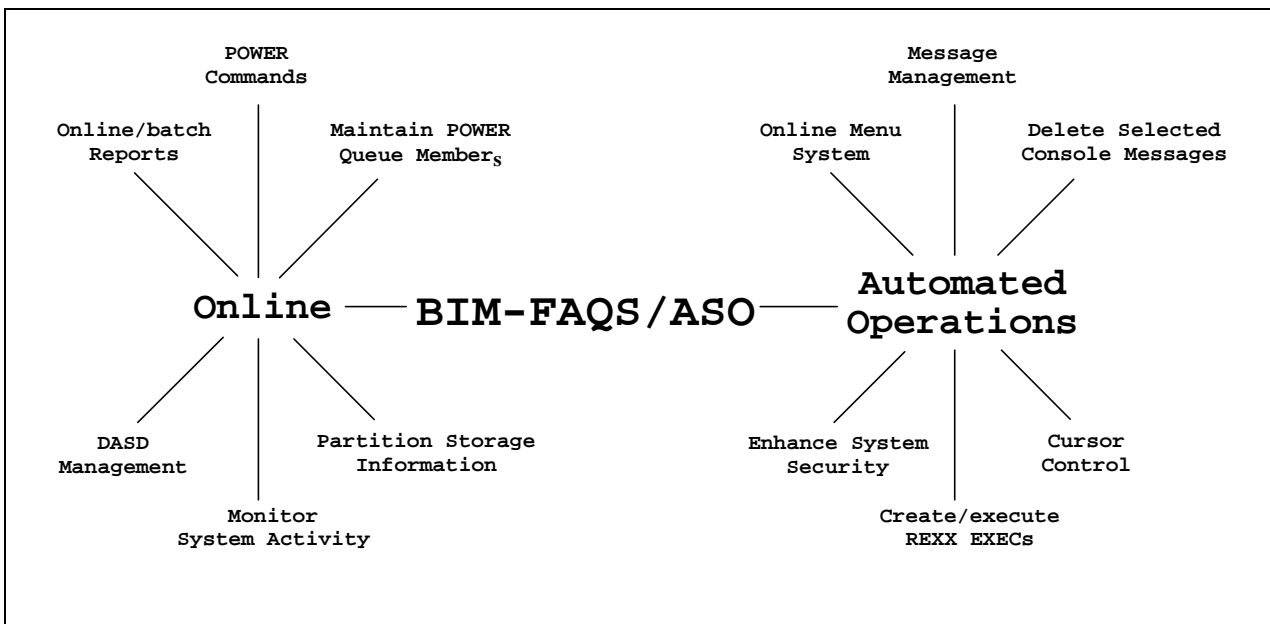
#### Introduction

BIM-FAQS/ASO is the industry leader in automated operations and console management for VSE systems.

The figure below illustrates the two primary functions of BIM-FAQS/ASO:

- Online alternate console
- Automated operations

You'll be exposed to these functions, and some of the features associated with each function, throughout your BIM-FAQS/ASO trial.



## Online Features

With BIM-FAQS/ASO, authorized users can use terminals as system consoles. A wide range of problem determination tools allows users to display GETVIS usage, execution status of jobs, POWER queues and members, current partition allocations, virtual storage information, and much more.

You can use BIM-FAQS/ASO Online to:

- Monitor console activity
- Issue POWER commands
- Maintain POWER queue members
- Monitor storage and manage DASD
- Generate online or batch reports
- Access partition storage information

## Automated Operations Features

As data centers grow in complexity, IS professionals have come to recognize that automation:

- Boosts productivity
- Saves data processing costs
- Boosts operator morale
- Frees IS staff for problem-solving

With BIM-FAQS/ASO, you can have these lasting benefits immediately. You can use BIM-FAQS/ASO to:

- Automate console message management
- Access user-friendly online menus
- Implement enhanced system security
- Use online REXX support
- Free operators from tedious, repetitive console management tasks

## Online Help

All BIM-FAQS/ASO displays offer online help. Selected displays also offer field-sensitive help.

## Beyond Your Trial

You will use some of the above product features in your BIM-FAQS/ASO trial. However, BIM-FAQS/ASO has many more advanced features that you will want to explore once you have become familiar with it.

## Seamless Integration

B I Moyle Associates, Inc. is dedicated to making our products work even better when used together. With our VSE product family, BIM can offer the VSE data center a total solution for its data processing needs. Working together with the BIM family of VSE products, BIM-FAQS/ASO can take more data center management problems off your hands than ever before.

As part of its superior functionality, BIM-FAQS/ASO interfaces with many VSE products. From BIM-FAQS/ASO you can access:

Product	Function
BIM-EPIC	Disk and Tape manager
BIM-FAQS/PCS	Automated production control system
CA-EXPLORE for CICS-VSE	CICS performance monitor
CA-EXPLORE for VSE	VSE performance monitor
CA-ExpressDelivery for VSE	Automated output manager
CA-EXTEND/DASD	VSAM dataset compression tool
CA-FLEE	VSE library manager
CA-HYPER-BUF	VSAM buffer space allocation tool
CA-MASTERCAT	VSAM catalog manager

## BIM-GSS

To avoid unnecessary duplication of common code where more than one BIM product is installed, BIM introduced BIM-GSS. You must have BIM-GSS successfully installed on your system before you can install BIM-FAQS/ASO.

### Why You Need BIM-GSS

BIM-GSS is a crucial component of BIM's strategy to maximize VSE data center efficiency. BIM-GSS contains various phases and screen procedures which are common to more than one BIM product. By combining these common elements in one set of code, BIM has ensured that:

- Our products will not cause an unnecessary burden on storage
- Downlevel code conflicts will not occur
- BIM VSE products are compatible and have the same look and feel

### Installing BIM-GSS

For information about installing BIM-GSS, see Chapter 2, "Installing and Initializing BIM-FAQS/ASO."

# Chapter 2

## Installing and Initializing BIM-FAQS/ASO

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This chapter explains how to install and initialize BIM-FAQS/ASO. It also explains everything you need to know to install BIM-FAQS/ASO successfully and get it up and running.

### In This Chapter

#### What You will Learn

In this chapter, you will learn to

- Install BIM-GSS
- Install BIM-FAQS/ASO
- Initialize BIM-FAQS/ASO
- Initialize REXX support and an online interface for BIM-FAQS/ASO

All the tasks discussed in this chapter must be performed *as described* in order to ensure a smooth and trouble-free trial.

You must successfully install BIM-GSS before you install BIM-FAQS/ASO.

Before you can use BIM-FAQS/ASO, you must install it, initialize it, and initialize an online interface for it.

## Topics

This chapter covers the following topics:

- Installing BIM-GSS
- Defining a residence library
- Defining labels for required PDSs
- Running the installation jobstream, IBGS
- Installing BIM-FAQS/ASO
- Defining labels for the BIM-FAQS/ASO PDSs
- Defining the FAQSMMSG VSAM file
- Running the installation jobstream, IASO
- Initializing BIM-FAQS/ASO
- Initializing online interfaces, including:
  - VM/CMS
  - CICS
  - VTAM
  - REXX support

# Installing BIM-GSS

## Task Overview

Before you can install BIM-FAQS/ASO, you must successfully install BIM-GSS.

You were introduced to BIM-GSS at the end of Chapter 1, "What Is BIM-FAQS/ASO?" Recall that BIM-GSS is a set of common code used by multiple BIM products. It contains various common phases and screen procedures.

This section covers pre-installation considerations and the BIM-GSS installation procedure. For more information about BIM-GSS installation, see the BIM-GSS *Installation and Utilities Guide*.

## Tasks

In this section, you will perform the following tasks:

Task	Action
I	Define a residence library
II	Define labels for the required PDSs
III	Run IBGS, the BIM-GSS installation jobstream

## Task I: Defining a Residence Library

### Requirements

You must allocate disk space to store the residence library dataset. Do *not* use your VSE machine's SYSRES library as the BIM-GSS residence library.

### Create Your Own Residence Library

For the purposes of this trial, create your own *lib.sublib* and use it as the BIM-GSS residence library. You *must* use this *lib.sublib* as the BIM-FAQS/ASO residence library when you install BIM-FAQS/ASO. For example, you could install into a *lib.sublib* called FAQSASO.TRIAL.

If BIM-GSS is already installed for another BIM product, you will need to use this *lib.sublib* as the BIM-FAQS/ASO residence library. Go ahead with BIM-GSS installation unless you have already installed the current release.

### Disk Space Conversion Chart

Your residence library will require about 5000 1K library blocks. This amount of disk space should be sufficient for BIM-GSS and BIM-FAQS/ASO.

Use the following chart to translate this figure into tracks and cylinders for the type of DASD where the residence library will reside:

DASD Type	Number of 1K Blocks Per Track	Number of 1K Blocks Per Cylinder
3330	11	209
3340	7	84
3350	15	450
3375	25	300
3380	31	465
ECKD	33	495
9345	28	420

### Conclusion

In this procedure, you created a residence library for BIM-GSS. Now you need to define labels for the required PDSs to successfully install BIM-GSS. Since BIM-GSS contains phases and screen procedures that BIM-FAQS/ASO needs, defining labels for these PDSs will ensure a smooth and trouble-free BIM-FAQS/ASO installation.

## Task II: Defining Labels For Required PDSs, SYSSVIO and SYSSMON

Successful BIM-GSS installation requires that the SYSSMON and SYSSVIO PDSs (partitioned datasets) have appropriate labels. Recall that a PDS is a dataset with a directory made up of members, all of which are directly accessible from the device where they reside. BIM-GSS defines SYSSMON and SYSSVIO, but you must define appropriate labels for them.

Required PDSs (Partitioned Datasets)

You must define labels for the following PDSs prior to installing BIM-GSS:

PDS	Contents
SYSSMON	BIM-supplied IMODs
SYSSVIO	<ul style="list-style-type: none"><li>• System control files</li><li>• Audit trail</li><li>• Screen definition files</li><li>• Files containing password definitions and other control information</li><li>• Temporary PDS processing space</li></ul>

Procedure

To define labels for SYSSMON and SYSSVIO correctly, you must:

1. Include DLBL and EXTENT statements for SYSSMON and SYSSVIO in your system standard labels.
2. Specify SYSSMON and SYSSVIO as sequential files.
3. Specify a volume serial number and omit the logical unit.
4. Allocate at least 3000 4K blocks (24000 FBA blocks) of disk space for each PDS.

### Sample JCL

The following shows a sample of DLBL and EXTENT statements for SYSSMON and SYSSVIO on a 3380 DASD:

PDS	Sample JCL
SYSSMON	// DLBL SYSSMON,'file.ID',99/365 // EXTENT ,RES001,1,0,7680,300
SYSSVIO	// DLBL SYSSVIO,'file.ID',99/365 // EXTENT ,RES001,1,0,30,300

*file.ID* is the file identifier you assign to SYSSMON and SYSSVIO. We recommend you use a file identifier that suggests the function of the PDS.

### Avoiding IPL Before Installation

You can use the OPTION STDLABEL=ADD statement to update your standard labels and avoid an IPL before installation.

### Conclusion

Once you have defined and loaded labels for the required PDSs, you are ready to install BIM-GSS.

### Task III: Running the Installation Jobstream, IBGS

The BIM-GSS installation jobstream, called IBGS, asks questions about your environment and then performs the installation. The IBGS jobstream is loaded into the POWER RDR queue, link-edits the IBGS installation program, and catalogs that program into the *lib.sublib* you specify.

BIM-GSS installation is interactive. At various points in the installation, you will be prompted to respond before the installation can continue. The procedure below presents those messages requiring a response. However, you will see a number of messages not documented here; these messages are normal.

**Note:** The installation procedure must complete successfully before you can install BIM-FAQS/ASO. If you encounter any problems with the installation, see Appendix A, "Sample Installation Error Messages," for a list of possible IBGS error messages.

#### Procedure

To load the installation jobstream and install BIM-GSS, follow these steps:

1. Start a POWER RDR task on the tape device where the installation tape is mounted. To do this, enter:

```
S RDR, cuu
```

where *cuu* is the address of the tape device.

2. IBGS is placed in the POWER RDR queue, class *0*, disposition *L*. IBGS must run in the BG (background) partition because the installation performs a SET SDL.
3. Release IBGS. Enter:

```
R RDR, IBGS
```

IBGS begins and displays the following:

```

BG 000 * -----
BG 000 *                BIM-GSS VERSION  5.1x
BG 000 *
BG 000 * THIS TAPE CONTAINS THE BIM-GSS MODULES AND IS REQUIRED
BG 000 * FOR BIM-FAQS/ASO, BIM-FAQS/PCS AND BIM-EPIC
BG 000 *
BG 000 *
BG 000 * IJSYSRS.SYSLIB INSTALLS ARE DISCOURAGED BUT ALLOWED.
BG 000 * BIM-FAQS/ASO AND BIM-FAQS/PCS MUST BE DISABLED IF
BG 000 * YOU MUST INSTALL INTO THE VSE SYSTEM LIBRARY,
BG 000 * IJSYSRS.SYSLIB SINCE THE SVA IS RELOADED. THIS CAN
BG 000 * CAUSE SERIOUS PROBLEMS AND AN IPL WILL BE REQUIRED
BG 000 * WITH THE POSSIBILITY OF MIXED RELEASES.
BG 000 * RELEASES.
BG 000 *
BG 000 * ALSO, THE MOST COMMON CAUSE OF MIXED RELEASES IS
BG 000 * DUE TO HAVING $PHASES RESIDING IN SYSRES AND
BG 000 * TRYING TO TEST A NEW VERSION IN ANOTHER LIBRARY.
BG 000 * IJSYSRS.SYSLIB IS SEARCHED FIRST FOR PHASES THAT
BG 000 * START WITH "$"
BG 000 * -----
BG 000 // PAUSE ENTER ==> 0 SETPARM LIB='LIB.SUBLIB'
```

4. Enter:

```
SETPARM LIB='lib.sublib'
```

where *lib* is the library and *sublib* is the sublibrary where you want to install BIM-GSS.

If this is a MSHP installation, *lib* and *sublib* should agree with the MSHP residence library specified for BIM-GSS.

IBGS accepts the SETPARM statement and waits.

The following statement is displayed:

```
*BG-000 0D61D READY
```

5. Enter 0.

IBGS prompts you for the address of the tape drive containing the installation tape.

6. Enter 0 *cuu*.

where **cuu** is the address of the tape device where the installation tape is mounted.

IBGS displays the following:

```
BG 000 +-----+
BG 000 | DO YOU WISH TO INSTALL INTO lib.sublib FROM cuu
BG 000 | ENTER YES OR CANCEL
BG 000 +-----+
```

7. Enter 0 **YES** if the information is correct.
8. Enter **CANCEL** if you do not want to link-edit the modules into the library specified by *lib.sublib*, or if you have specified the tape drive incorrectly.

IBGS displays the following:

```
BG 000 +-----+
BG 000 | DO YOU WISH TO INSTALL USING MSHP OR LIBR
BG 000 | ENTER MSHP OR LIBR
BG 000 +-----+
```

9. Enter 0 *xxxx*.

where **xxxx** is either MSHP or LIBR.

When you see this message, the BIM-GSS installation is complete:

```
BG 000 * -----+
BG 000 *          BIM-GSS VERSION  5.1x
BG 000 *
BG 000 *          That's all folks....
BG 000 * -----+
```

## Conclusion

Your BIM-GSS installation is complete. You are ready to install BIM-FAQS/ASO.

## Installing BIM-FAQS/ASO

### Task Overview

Now that you have successfully installed BIM-GSS, you are ready to install BIM-FAQS/ASO. You need to take some preliminary steps, just like you did with BIM-GSS, before you can install BIM-FAQS/ASO. This section covers pre-installation considerations and the BIM-FAQS/ASO installation procedure.

#### Tasks

In this section, you will perform the following tasks:

Task	Action
I	Define labels for the BIM-FAQS/ASO PDSs
II	Define the FAQSMMSG VSAM file
III	Run IASO, the BIM-FAQS/ASO installation jobstream

## Task I: Defining Labels For BIM-FAQS/ASO PDSs, SYSSARC and SYSSCPR

We recommend that you define labels for the following PDSs even though they are not required for initial BIM-FAQS/ASO installation:

**SYSSARC** makes use of the BIM-FAQS/ASO sysout archival facility.

**SYSSCPR** makes use of BIM-FAQS/ASO CPR (CICS Print Report) support.

**Note:** We will not offer examples of using SYSSARC and SYSSCPR for the purposes of the trial. However, once you have defined labels for these files, the files will be formatted during the installation for use at a later date. So, if you want to explore these BIM-FAQS/ASO features on your own, you will be prepared to do so successfully.

### Procedure

To define labels for SYSSARC and SYSSCPR correctly, take the following steps:

1. Include DLBL and EXTENT statements for SYSSARC and SYSSCPR in your system standard labels.
2. Specify SYSSARC and SYSSCPR as sequential files.
3. Specify a volume serial number and omit the logical unit.
4. Allocate:
  - 4K blocks (4000 FBA blocks) for SYSSARC
  - 4K blocks (8080 FBA blocks) for SYSSCPR
5. For information about converting these figures into DASD tracks and cylinders, see the disk conversion chart in the section "Task I: Defining a Residence Library" on page 2-4.

Sample JCL

The following shows a sample of DLBL and EXTENT statements for SYSSARC and SYSSCPR on a 3380 DASD:

PDS	Sample JCL
SYSSARC	// DLBL SYSSARC,'file.ID',99/365 // EXTENT ,RES001,1,0,8675,50
SYSSCPR	// DLBL SYSSCPR,'file.ID',99/365 // EXTENT ,RES001,1,0,86765,101

*file.ID* is the file identifier you assign to SYSSARC and SYSSCPR. We recommend you use a file identifier that suggests the function of the PDS.

Conclusion

Once the BIM-FAQS/ASO PDSs have labels, you need to define the FAQSMMSG VSAM file if you are running on a pre-VSE/ESA 2.1 system. Go to Task II: Defining the FAQSMMSG VSAM File (the next section).

If you are running VSE/ESA 2.1, you will use the IBM EXPLAIN facility (instead of FAQSMMSG) to access online message explanations for BIM-FAQS/ASO. In this case, skip to Task III: Running the Installation Jobstream, IASO.

## Task II: Defining the FAQSMMSG VSAM File

Pre-ESA-2.1 Users Only

If you are installing BIM-FAQS/ASO on an ESA 2.1 system, you can no longer use the FAQSMMSG VSAM file to access online message explanations for BIM-FAQS/ASO. Instead, you must use the IBM EXPLAIN facility.

Only users installing BIM-FAQS/ASO on a pre-ESA-2.1 system need to follow the procedure in this section to define FAQSMMSG.

The FAQSMMSG VSAM file holds messages that you can access online from BIM-FAQS/ASO.

Procedure

To define the FAQSMMSG VSAM file correctly, take the following steps:

1. Specify a DLBL of *FAQSMMSG*. Filename must be *FAQSMMSG*, and it must reside in system standard labels.
2. Specify a key length of 12 and a key position of 0.
3. Specify an average record size of 1024 bytes and a maximum record size of 6000 bytes.

Sample JCL: FAQSMMSG VSAM File

The following shows sample JCL for defining the FAQSMMSG VSAM file:

```
// JOB DEFINE - DEFINE VSAM FILE
// DLBL IJSYSUC,'catalog',,VSAM
// DLBL FAQSMMSG,'FAQS.ERROR.MESSAGE',,VSAM,CAT=IJSYSUC
// EXEC IDCAMS,SIZE=AUTO
   DEFINE CLUSTER                -
      (FILE(FAQSMMSG)            -
       VOL(volser)              -
       NAME(FAQS.ERROR.MESSAGE)  -
       SHAREOPTIONS(2)          -
       KEYS(12 0)               -
       FSPC(10 10)              -
       INDEXED)                 -
   DATA (                       -
      CYL(2 1)                  -
      NAME(FAQS.ERROR.MESSAGE.DATA) -
      RECSZ(1024 6000)         -
      CISZ(6144))              -
   INDEX (                      -
      NAME(FAQS.ERROR.MESSAGE.INDEX))-
   CATALOG(catalog)

/*
/ &
```

*catalog* is the VSAM catalog name. *volser* is the DASD volume serial number.

Conclusion

Once the FAQSMMSG VSAM file has been defined, you are ready to install BIM-FAQS/ASO.

### Task III: Running the Installation Jobstream, IASO

The installation jobstream, IASO, contains multiple files. The first file is a POWER RDR file containing the installation jobstream. The installation jobstream performs a link-edit to the *lib.sublib* that you specify.

BIM-FAQS/ASO installation is interactive. At various points in the installation, you will be prompted to respond before the installation can continue. The procedure below presents those messages requiring a response. However, you will see a number of messages not documented here; these messages are normal.

**Note:** *The installation procedure must complete successfully.* Failure to install BIM-FAQS/ASO without errors will seriously impact your ability to benefit from this trial. If you encounter any problems with the installation, see Appendix A, “Sample Installation Error Messages,” for a list of possible IASO error messages.

#### Residence Library

Install BIM-FAQS/ASO into the same residence library where you installed BIM-GSS.

#### Procedure

To load the installation jobstream and install BIM-FAQS/ASO, follow these steps:

1. Start a POWER RDR task on the tape device where the installation tape is mounted. To do this, enter:

```
S RDR, cuu
```

where *cuu* is the address of the tape device.

IAS is placed in the POWER RDR queue with class *0* and disposition *L*.

2. Release IASO.

Enter:

```
R RDR, IASO
```

IASO displays the following:

```

BG 000 * -----
BG 000 *   BIM-FAQS VERSION 5.1x FOR VSE/ESA 1.3 AND ABOVE
BG 000 *
BG 000 *           BIM-FAQS/ASO AND BIM-FAQS/PCS
BG 000 *
BG 000 * BIM-FAQS/ASO   - AUTOMATED SYSTEMS OPERATIONS, CONSOLE
BG 000 *                   MANAGEMENT, ONLINE TOOLS AND SYSTEM
BG 000 *                   ENHANCEMENTS
BG 000 * BIM-FAQS/PCS   - PRODUCTION CONTROL SYSTEM FOR VSE
BG 000 *
BG 000 *           1.  WHAT LIBRARY.SUBLIBRARY WILL BE USED ?
BG 000 *                   AT THE PAUSE ENTER A SETPARM FOR THE
BG 000 *                   TARGET OR RESIDENCE LIBRARY.SUBLIB
BG 000 *
BG 000 *                   0 SETPARM LIB='LIB.SUBLIB'
BG 000 *
BG 000 * IJSYSRS.SYSLIB INSTALLS ARE DISCOURAGED BUT ALLOWED.
BG 000 * BIM-FAQS/ASO AND BIM-FAQS/PCS MUST BE DISABLED IF
BG 000 * YOU ARE INSTALLING INTO IJSYSRS.SYSLIB SINCE THE SVA
BG 000 * IS RELOADED. THIS CAN CAUSE SERIOUS PROBLEMS AND AN
BG 000 * IPL WILL BE REQUIRED WITH THE POSSIBILITY OF MIXED
BG 000 * RELEASES.
BG 000 *
BG 000 * ALSO, THE MOST COMMON CAUSE OF MIXED RELEASES IS
BG 000 * DUE TO HAVING $PHASES RESIDING IN SYSRES AND
BG 000 * TRYING TO TEST A NEW VERSION IN ANOTHER LIBRARY.
BG 000 * IJSYSRS.SYSLIB IS SEARCHED FIRST FOR PHASES THAT
BG 000 * START WITH "$".
BG 000 * -----
BG 000 // PAUSE ENTER ==> 0 SETPARM LIB='LIB.SUBLIB'
BG-000

```

3. Enter:

```
SETPARM LIB='lib.sublib'
```

where *lib* is the library and *sublib* is the sublibrary where you want to install BIM-FAQS/ASO.

If this is a MSHP installation, *lib* and *sublib* should agree with the MSHP residence library specified for the BIM-FAQS products.

IASO accepts the SETPARM statement and waits.

The following statement is displayed:

```
*BG-000 0D61D READY
```

4. Enter 0

IASO prompts you for the address of the tape drive containing the installation tape.

Enter 0 *cuu*

where *cuu* is the address of the tape device where the installation tape is mounted.

IASO displays the following:

```
0c0
BG 000 *-----+
BG 000 * DO YOU WISH TO INSTALL INTO lib.sublib FROM cuu
BG 000 * ENTER YES OR CANCEL
BG 000 *-----+
*BG-000
```

5. Enter 0 YES if the information is correct.
6. Enter CANCEL if you do not want to install into the library specified by *lib.sublib*, or if you have specified the tape drive incorrectly.

IASO displays the following:

```
yes
BG 000 *-----+
BG 000 * DO YOU WISH TO INSTALL USING MSHP OR LIBR
BG 000 * ENTER MSHP OR LIBR
BG 000 *-----+
*BG-000
```

7. Enter 0 *xxxx*

where *xxxx* is either MSHP or LIBR.

IASO displays the following messages:

```
BG 000 BIM-FAQS/ASO V5.1x - FAQSMG
BG 000 UTILITY PROGRAM
BG 000 GFV130I nnnn RECORDS READ
BG 000 GFV131I nnnn RECORDS WRITTEN
```

These messages will be repeated until all the system messages and help screens are loaded.

```
BG 000 * -----+
BG 000 * BIM-FAQS VERSION 5.1x
BG 000 *
BG 000 * THAT'S ALL FOLKS . . .
BG 000 * -----+
```

Conclusion

You just performed a complete installation of BIM-FAQS/ASO. Congratulations!

Now you must initialize BIM-FAQS/ASO, and you must initialize at least one online interface for it. Once BIM-FAQS/ASO is initialized, you can begin to use its powerful online features.

# Initializing BIM-FAQS/ASO

## Task Overview

Installing BIM-FAQS/ASO is only the first step in using the product. Once it is installed, you must initialize it. If you do not initialize the product, it will not work.

### Task

In this section, you will initialize BIM-FAQS/ASO using the sample jobstream provided with this section.

## Running the Initialization Jobstream

For your trial, we recommend that you run a jobstream like the sample jobstream below to initialize BIM-FAQS/ASO. The recommended jobstream is the safest, fastest method for getting BIM-FAQS/ASO up and running.

For the purposes of the trial, run the sample jobstream below as a batch job. However, as a general rule, you would put the BIM-FAQS/ASO initialization procedure in your BG ASI IPL procedure.

### GSFAQS and GSFTL

GSFAQS and GSFTL are BIM-FAQS/ASO batch utilities that enable you to initialize the product.

***Important!*** If you wish to use MLTA (a part of GSFTL), be sure to initialize it at IPL time. Do not initialize it after IPL.

### STARTUP Statement

The STARTUP statement automatically loads the default BIM-FAQS/ASO command, message, and console PF-key files and initializes CONSPPOOL and CLOG. The default files are all named *FAQSASO*.

**Note:** In Chapter 4, “Managing Messages and PF Keys,” you will rename all the initialization files named *FAQSASO*. For pre-VSE/ESA 2 systems, use *FAQSASO1* instead of *FAQSASO* in the STARTUP statement below. Since subsequent installations of BIM-FAQS/ASO reload new files named *FAQSASO*, we recommend that you change these default filenames so that any changes you make to them will not be lost.

Procedure: Sample Jobstream

To initialize BIM-FAQS/ASO, run a jobstream like the following:

```
// LIBDEF *,SEARCH=lib.sublib
* DEFINE BIM-FAQS TO VSE
// EXEC BIM$INIT,SIZE=256K
/*
* START FTL
// EXEC GSFTL,SIZE=256K
RDL=CREATE
FAQS
FTLLIST                (optional, omit if short on system GETVIS)
RDL=END
/*
// EXEC $FAQSHC6        (VSE/ESA 2+ only)
CACHE=2M                (VSE/ESA 2+ only)
/*                      (VSE/ESA 2+ only)
* INITIALIZE GSFAQS
// EXEC GSFAQS,SIZE=256K
STARTUP FAQSASO
/*
```

where **lib.sublib** is the BIM-FAQS/ASO residence library you specified at the installation.

FTLLIST is a list of recommended phases to be loaded into the SVA for performance reasons. However, your trial will not be affected if this statement is not included in the initialization jobstream.

Sample Messages

When you run the sample jobstream above, you will see a series of messages similar to the following. These messages are normal.

```
GLA639I GSVSE PRODUCT DEFINED TO IBM
* START FTL
** F-T-L ** RELEASE V5.1A 04/24/98
GFF610 BIM-FAQS/ASO FTL FETCH TRACE ACTIVE
GTF600 FPS FACILITY ACTIVE
GTF100 FAQSON SUPPORTED BY FTL
GTF092 3 REAL PAGES USED
GTF093 21 VIRTUAL PAGES USED
GTF096 FTL LOADED AT 533000
GFH600I BIM-FAQS/ASO HARDCOPY FILE CACHER VERSION V5.1A 05/05/98
GFH610I BIM-FAQS/ASO HC HOOK LOADED AT 536000
GFH611I HC CACHE DEFINED AT 065B5000, LENGTH=2M
* INITIALIZE GSFAQS
** BIM-FAQS/ASO V5.1A 08/24/98
GFF915 GSFAQS00 LOADED AT 537000
GFF904 AR HOOK ACTIVE
GAO320I ASO/VMCF AUTHORIZED FOR COMMUNICATION
GFF905 SMSG HOOK ACTIVE
GFF902 CLOG ACTIVE
        CONSPOOL AR,BG,FB,FA,F9,F8,F7,F6,F5,F4,F3,F2,F1
        CONSPOOL C,D,E,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V,W,X,Y,Z
        SYSOUT AR,BG,FB,FA,F9,F8,F7,F6,F5,F4,F3,F2,F1
        SYSOUT C,D,E,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V,W,X,Y,Z
GFF153 COMMAND FILE FAQSASO LOADED
```

```
GFF173 PFKEY FILE FAQSASO LOADED  
GFF183 MESSAGE FILE FAQSASO LOADED
```

Console Server (ESA 2+)

Run FAQXCONS as the main task, use the following JCL statement:

```
// EXEC FAQXCONS,SIZE=FAQXCONS
```

This task should be run in a high priority partition all by itself. The performance of the entire system is improved the higher in Priority you run this task.

Conclusion

You just initialized BIM-FAQS/ASO using the recommended sample jobstream.

In the next section, you will learn how to initialize one or more of the BIM-FAQS/ASO online interfaces. Since you need to activate the BIM-FAQS/ASO REXX support to perform the tasks in Chapter 5, “Creating and Executing IMODs,” it is important that you initialize the BIM-FAQS/ASO REXX processor using the procedure provided in the section, REXX Support.

# Initializing Online Interfaces

## Task Overview

BIM recognizes that the data processing needs of businesses today require our products to be accessible from a variety of software environments. As a result, BIM-FAQS/ASO comes with multiple user interfaces. However, you must initialize at least one online interface before you can access BIM-FAQS/ASO from a specific environment. For example, if you want to access BIM-FAQS/ASO from CICS, you must first initialize a BIM-FAQS/ASO CICS interface.

## Online Interfaces

In this section, you will have the opportunity to initialize an online interface for BIM-FAQS/ASO. You will need to initialize REXX support and *at least* one online interface.

You may choose to initialize one or more of the following:

- VM/CMS
- CICS
- VTAM

## Additional Online Interfaces

BIM-FAQS/ASO also comes with the following interfaces:

- BTAM
- ICCF
- HTML (CGI)

For the purposes of the trial, we will not discuss these interfaces. However, these interfaces are available if needed.

## Sample Configurations

For an illustration of actual configurations you can use to initialize BIM-FAQS/ASO, see Appendix B, “Sample Online Configurations.”

## Where to Find Initialization Information

The following list includes the online interfaces discussed in this section:

- VM/CMS
- CICS
- VTAM

## VM/CMS

Many BIM-FAQS/ASO users run VSE under VM/CMS. The CMS interface uses the VMCF support of VM to access BIM-FAQS/ASO from CMS.

The FAQSVMX program works with the FAQSMAIN program to serve as the CMS/VMCF interface. FAQSMAIN uses XPCC to communicate with FAQSVMX. FAQSMAIN is a part of BIM-FAQS/ASO and was loaded when you installed BIM-FAQS/ASO. FAQSMAIN can run in either a static or a dynamic partition.

Before you can initialize the VMCF interface, you will need to install the BIM-FAQS/ASO CMS members contained at the end of the installation tape.

### Installing CMS Members

The BIM-FAQS/ASO CMS members are in VMFPLC2 tape dump format. To restore them to your CMS minidisk, enter the following commands from your CMS session:

```
CP ATT cuu * 181
VMFPLC2 REW
VMFPLC2 FSF 18
VMFPLC2 LOAD * * A
```

*cuu* is the address of the tape drive where the installation tape is mounted.

## Activating FAQSVMX and FAQSMAIN

To initialize the VMCF interface, take the following steps. For information about actual initialization configurations using FAQSVMX and FAQSMAIN, see Appendix B, “Sample Online Configurations.”

1. Execute FAQSVMX and FAQSMAIN as:

Maintasks in dedicated partitions. Execute the following JCL in different partitions:

```
// EXEC FAQSVMX,SIZE=FAQSVMX,PARM='USERS=nn'
```

where **nn** is the number of users allowed online at one time. The maximum is 40. During startup, the message MAXIMUM INTERFACE USERS: nn is displayed.

```
// EXEC FAQSMAIN,SIZE=FAQSMAIN,PARM='NAME=name'
```

where **name** is the name of the session. What you specify for name appears in the lower-right hand of the console, in place of the CPU ID, jobname, or virtual machine ID.

Subtasks of any task in a dedicated partition:

```
// EXEC BIM$UTTS,SIZE=xxxx,PARM='maintask#FAQSVMX#FAQSMAIN'
```

where **maintask** can be any task you want. BIM\$UTTS is a BIM-GSS utility that allows you to subtask tasks which do not share the same host. BIM\$UTTS allows you to subtask one or more tasks under any long-running task.

Subtasks of the BIM-FAQS/PCS job scheduler *JCLSCHED*:

```
// EXEC JCLSCHED,SIZE=JCLSCHED
```

**Note:** Place the following statements in the JCLSCHED.CTL file in SYSSMON:

```
AUTO $FAQSVMX,PARM='USERS=nn'  
AUTO $FAQSMAIN
```

where **nn** is the number of users allowed online at one time. The maximum is 40. During startup, the message MAXIMUM INTERFACE USERS: nn is displayed.

The JCLSCHED.CTL file contains a series of AUTO statements specifying which tasks to subtask under JCLSCHED.

2. Enter BIM-FAQS/ASO through the VMCF interface with the following command:

**FAQS machine**

where machine is your VSE machine name. This command invokes the supplied FAQS EXEC. You may modify the FAQS EXEC if you desire.

#### Sample Messages

If you initialize VMCF support, you will see messages like the following:

```
FAQS/VMCF INTERFACE V5.1x 01/15/98 VSE/SP 2.1.8  
GAO320I ASO/VMCF AUTHORIZED FOR COMMUNICATION
```

For VSE/ESA version 2 and above, IUCV may be used by replacing FAQSVMX with FAQSIUX in step 1 and then follow step 2 as above. The IUCV interface (FAQSIUX) has not maximum users restriction, but it must always be the maintask of a partition. This is a VSE restriction, not BIM-FAQS/ASO.

## CICS

If you want to access BIM-FAQS/ASO from CICS, you must initialize the BIM-FAQS/ASO CICS interface. You do this by defining the required CICS table entries below.

### BIM\$TICI and BIM\$TIDR

BIM-FAQS/ASO uses two programs to access BIM-FAQS/ASO online, **BIM\$TICI** and **BIM\$TIDR**, as its CICS interface. Both are part of BIM-GSS; they were loaded when you installed BIM-GSS. BIM\$TICI runs in the same partition as CICS. BIM\$TIDR runs in a different partition. BIM\$TIDR allows you to access online applications using XPCC. BIM\$TICI requires little partition GETVIS and, when used with BIM\$TIDR, makes CICS storage available if you are storage-constrained.

To use these two programs, FAQSMAIN must also be running. BIM\$TICI and BIM\$TIDR must both be running to access the CICS interface. Both of these programs can run in either a static or a dynamic partition.

### CICS Table Entries: Activating BIM\$TICI

Whether you are assembling your CICS table definitions or using RDO to initialize the BIM-FAQS/ASO CICS interface, the following CICS table modifications are required:

CICS Table	Description and Entry
PPT	DFHPPT TYPE=ENTRY,PROGRAM=BIM\$TICI,PGMLANG=ASSEMBLER,RES=YES
PCT	DFHPCT TYPE=ENTRY,PROGRAM=BIM\$TICI,TRANSID=FAQS,TWASIZE=0

### Requirements

Under CICS/TS 1.1 and above, BIM\$TICI must run in CICS protect key by setting its RDO PROGRAM entry to EXECKEY(CICS).

## Activating BIM\$TIDR and FAQSMAIN

To initialize the CICS interface using BIM\$TIDR and FAQSMAIN, take the following step. For information about actual initialization configurations using BIM\$TIDR, see Appendix B, “Sample Online Configurations.”

1. Execute BIM\$TIDR and FAQSMAIN as:

Maintasks in a dedicated partition. Execute the following JCL in *different* partitions:

```
// EXEC BIM$TIDR,SIZE=BIM$TIDR
// EXEC FAQSMAIN,SIZE=FAQSMAIN
```

Subtasks of any task in a dedicated partition:

```
// EXEC BIM$UTTS,SIZE=xxxx,PARM='maintask#BIM$TIDR#FAQSMAIN'
```

*maintask* can be any task you want. BIM\$UTTS is a BIM GSS utility that allows you to subtask tasks which do not share the same host. BIM\$UTTS allows you to subtask one or more tasks under any long-running task.

Subtasks of the BIM-FAQS/PCS job scheduler, *JCLSCHED*:

```
// EXEC JCLSCHED,SIZE=JCLSCHED
```

**Note:** Place the following statements in the JCLSCHED.CTL file in SYSSMON:

```
AUTO $BIM$TIDR
AUTO $FAQSMAIN
```

The JCLSCHED.CTL file contains a series of AUTO statements specifying which tasks to subtask under JCLSCHED.

2. Once BIM\$TICI is activated, enter **FAQS** from CICS to access the CICS interface. The BIM-FAQS/ASO Main Menu will be displayed.

## VTAM

We recommend that you execute the following two programs to serve as the BIM-FAQS/ASO VTAM interface:

- BIM\$TIDR
- FAQSMAIN

BIM\$TIDR serves as the interface and is a part of BIM-GSS; it was loaded when you installed BIM-GSS. BIM\$TIDR is a utility you can use to access many BIM VSE products online.

FAQSMAIN uses XPCC to communicate with BIM\$TIDR. FAQSMAIN is a part of BIM-FAQS/ASO, and it was loaded when you installed BIM-FAQS/ASO.

These programs must both be running to access the VTAM interface. Both of these programs can run in either a static or a dynamic partition.

### Activating BIM\$TIDR and FAQSMAIN

To initialize the VTAM interface using BIM\$TIDR and FAQSMAIN, follow these steps. For information about actual initialization configurations using BIM\$TIDR and FAQSMAIN, see Appendix B, "Sample Online Configurations."

1. Define your product application's major node. Add the following statement to your VBUILD command list:

```
applid APPL ACBNAME=BIM$TIDR,EAS=5
```

where ***applid*** can be anything you want it to be. However, we recommend that you use BIM\$TIDR as the VTAM application ID. The ACBNAME *must be* BIM\$TIDR.

2. Execute BIM\$TIDR and FAQSMAIN as maintasks in dedicated partitions. Execute the following JCL in *different* partitions. Ensure that a LIBDEF search for your product's sublibraries and the VTAM sublibraries is in effect.

```
// EXEC BIM$TIDR,SIZE=BIM$TIDR  
// EXEC FAQSMAIN,SIZE=FAQSMAIN
```

Subtasks of any task in a dedicated partition:

```
// EXEC BIM$UTTS,SIZE=xxxx,PARM='maintask#BIM$TIDR#FAQSMAIN'
```

where *maintask* can be any task you want. BIM\$UTTS is a BIM GSS utility that allows you to subtask tasks which do not share the same host. BIM\$UTTS allows you to subtask one or more tasks under any long-running task.

Subtasks of the BIM-FAQS/PCS job scheduler *JCLSCHED*:

```
// EXEC JCLSCHED,SIZE=JCLSCHED
```

**Note:** Place the following statements in the JCLSCHED.CTL file in SYSSMON:

```
AUTO $BIM$TIDR  
AUTO $FAQSMAIN
```

The JCLSCHED.CTL file contains a series of AUTO statements specifying which tasks to subtask under JCLSCHED.

3. Enter BIM-FAQS/ASO through the VTAM interface using the following command:

```
LOGON APPLID(applid)
```

where *applid* is the VTAM application ID you chose in Step 1.

#### Sample Messages

When you initialize BIM\$TIDR, you will see the following messages:

```
5C66I  BIM$TIDR STARTED  
GST002I INITIATED BIM$TIDR VER 5.1x 12/16/97 A=BIM$TIDR
```

## REXX Support

You must also initialize the BIM-GSS REXX processor before you can execute IMODs.

You will execute a sample IMOD and create and execute an IMOD in Chapter 5, “Creating and Executing IMODs.”

## FAQSAO

The FAQSAO program is the REXX processor. It multitasks IMODs and it must be active in a partition to execute an IMOD

- Online
- From a console command
- From a console message
- From an SMSG

FAQSAO can run as a main task or as a subtask. It can run in either a static or a dynamic partition.

***Important!*** *BIM strongly discourages subtasking FAQSAO under POWER or VTAM.*

Procedure

To enable BIM-FAQS/ASO REXX support, take the following step. For information about actual initialization configurations using FAQSAO, see Appendix B, "Sample Online Configurations."

Execute FAQSAO as:

A maintask in a dedicated partition:

```
// EXEC FAQSAO,SIZE=FAQSAO
```

A subtask in a dedicated partition:

```
// EXEC BIM$UTTS,SIZE=xxxx,PARM='maintask#FAQSAO'
```

where ***maintask*** can be any task you want. BIM\$UTTS is a BIM GSS utility that allows you to subtask tasks which do not share the same host. BIM\$UTTS allows you to subtask one or more tasks under any long-running task.

If you plan to run JCLSCHED, you should not run in either one of the two modes described above, unless you remove the AUTO &FAQSAO statement from the JCLSCHED.CTL file.

Subtask of the BIM-FAQS/PCS job scheduler *JCLSCHED*:

```
// EXEC JCLSCHED,SIZE=JCLSCHED
```

**Note:** The following statement is already included in the JCLSCHED.CTL file in SYSSMON:

```
AUTO &FAQSAO
```

The JCLSCHED.CTL file contains a series of AUTO statements specifying which tasks to subtask under JCLSCHED.

## Sample Messages

You may receive one or more of the following messages when initializing FAQSAO. These messages are normal; no action is required.

```
BIM-FAQS/ASO REXX PROCESSOR - FAQSAO V5.1x 11/19/97 VSE/SP 6.1.1
No CPU specific FAQSAO Initialization File found
MSGNOH machine enabled
Outstanding IMODS purged
IMOD Instruction limit set to 20000
IMOD Search chain: MON,
GJJ846I MESSAGE TABLE LOAD COMPLETED
POWER PRINT - Monday - 1 Dec 1997 - 07:58:54
No CPU specific Auto Print file found
No Generic CPU Auto Print file found
```

## Conclusion

In this section, you learned how to initialize interfaces for BIM-FAQS/ASO VM/CMS, CICS, VTAM, and REXX support. Now you can access BIM-FAQS/ASO from any environment you want through the interfaces you just initialized.

## Summary

### What You Did

In this chapter you:

- Installed BIM-GSS
- Installed BIM-FAQS/ASO
- Initialized BIM-FAQS/ASO
- Initialized an online interface for BIM-FAQS/ASO and REXX support

### What's Next?

Now you are ready to use BIM-FAQS/ASO Online and the powerful BIM-FAQS/ASO automated operations features.

In Chapters 3 through 5 of the *Trial Guide*, you will have the opportunity to perform certain procedures specially tailored for your BIM-FAQS/ASO trial. At the end of each chapter, we encourage you to experiment with all the features mentioned in the chapter. This will give you a better sense of BIM-FAQS/ASO's superior functionality.



# Chapter 3

## Using BIM-FAQS/ASO Online

---

This chapter shows you how to use BIM-FAQS/ASO Online.

### In This Chapter

#### Introduction

BIM-FAQS/ASO Online provides an alternate console to your VSE system console. The following are just some of the many online features of BIM-FAQS/ASO. You can:

- Monitor system and job status
- Access important system and job information
- Issue replies, POWER commands, and AR (Attention Routine) commands

#### What You will Learn

In this chapter, you will learn to:

- Create a user security definition
- Display the system console
- Tailor the console display using security
- Display POWER queue information
- Use the CURSOR command
- Use online help to access information about BIM-FAQS/ASO commands

## Topics

This chapter covers the following topics:

---

Topic	Explanation
Security	<p>You can use BIM-FAQS/ASO security to authorize or limit access to various product features. You can:</p> <ul style="list-style-type: none"><li>• Route messages</li><li>• Highlight messages</li><li>• Define user security definitions</li><li>• Configure BIM-FAQS/ASO displays</li><li>• Change display colors</li></ul>
Console displays	<p>BIM-FAQS/ASO provides you with a variety of ways to display the system console. The following commands are available to display the console:</p> <p><b>D C</b> Display the current console.</p> <p><b>D S,S</b> Display the current console in a split panel. Job statistics are displayed at the top; the current console is displayed at the bottom.</p> <p><b>D S,W</b> Display the current console in a window format with task status information in the upper right-hand corner.</p> <p><b>D S,J</b> Displays the current console in split panel. PRTY J is displayed at the top; the current console is displayed at the bottom.</p>
POWER queue displays	<p>You can display information about the following POWER queues:</p> <ul style="list-style-type: none"><li>• RDR</li><li>• LST</li><li>• PUN</li><li>• XMT</li></ul> <p>In this section, you will have the opportunity to edit a POWER RDR queue member, display a LST queue member and browse through that member.</p>
CURSOR command	<p>You can use the BIM-FAQS/ASO CURSOR command to create a temporary command line anywhere on a console display. This allows you to input lengthy data strings without manually reentering the whole data string. For example, you can use CURSOR MSG to access console message explanations by placing the cursor directly on the message as it appears on the console.</p> <p>If you <b>set a PF key</b> to CURSOR or CURSOR MSG, you will never again have to worry about mistyping long strings of critical data.</p>

---

---

# Accessing BIM-FAQS/ASO Online

## Introduction

You must access BIM-FAQS/ASO Online before you can use any of its online features. This section gives you a brief review of accessing BIM-FAQS/ASO, and presents the default displays you will encounter when you enter BIM-FAQS/ASO for the first time.

## Interface Commands

You can use the following commands to access BIM-FAQS/ASO Online:

Interface	Command
VM	To access BIM-FAQS/ASO through CMS, enter: <b>FAQS machine</b> machine is your target VSE machine name. The FAQS EXEC will determine whether you run IUCV or VMCF based on interface availability.
CICS	To access BIM-FAQS/ASO from CICS, enter: <b>FAQS</b>
VTAM	To access the BIM-FAQS/ASO VTAM application, enter: <b>LOGON APPLID(applid)</b> applid is the VTAM application ID you specified when you defined the VTAM <i>applid</i> in the VTAM VBUILD.  You will access the BIM\$TIDR Main Menu. From this menu, choose option <b>2</b> to enter BIM-FAQS/ASO Online.

## Default BIM-FAQS/ASO Display

If you are accessing BIM-FAQS/ASO for the first time, you will see a help menu:

```

BIM-FAQS/ASO ON-LINE FACILITY
COPYRIGHT (C) 1999, B I MOYLE ASSOCIATES, INC.

D C ..... Display system console
D S <,S | ,W | J> ..... Display split <Screen | Window>
D F ..... Display forward on console log
D L ..... Display backward on console log
K E ..... Delete a line from system console
CURSOR cmd ..... Generate command line at cursor pos
SCROLL ..... Begin/end SCROLL feature.
SCROLLS ..... Suspend/restart screen scrolling.
D RDR/LST/PUN..... List of requested POWER que members
MAP ..... Map of partitions' space allocation
MAP GETVIS ..... Current GETVIS allocations
MAP idGETVIS ..... GETVIS hole report for partition id
ASO J ..... System status / Job overview report
DEBUG <OLD|ALL>..... Display of system control blocks
MENU ..... Menu driven panel access
MSGOP msg..... Send a message (msg) to Operator
MSG xxxx ..... Display info for error message xxxx

ENTER BIM-FAQS/ASO COMMAND (OPERATOR) (SCROLL) 10:07:56
HELP
    
```

## Accessing the Default Console Display

To access the current console display from the help menu, enter **D C**. A BIM-FAQS/ASO console display like the following is displayed:

```

Z1-0046 GJJ206I JOB SCHEDULER ACTIVE 07:42:06
F3 0003 IST889I SID = FAE7B493648BE269 11:38:34
F3 0003 IST891I USBIM01.M06HOST GENERATED FAILURE NOTIFICATION 11:38:34
F3 0003 IST893I ORIGINAL FAILING REQUEST IS BIND 11:38:34
F3 0003 IST314I END 11:38:34
F3 0003 IST663I CDTERM REQUEST FROM M06HOST RECEIVED, SENSE=08210000 11:38:34
F3 0003 IST664I REAL OLU=USBIM01.VSEICICS REAL DLU=USBIM01.BIMCICSP
F3 0003 IST889I SID = FAE7B493648BE26E 11:38:34
F3 0003 IST891I USBIM01.M06HOST GENERATED FAILURE NOTIFICATION 11:38:34
F3 0003 IST892I BIMCICSP ORIGINATED FAILURE NOTIFICATION 11:38:34
F3 0003 IST893I ORIGINAL FAILING REQUEST IS CINIT 11:38:34
F3 0003 IST314I END 11:38:34
Z3 0094 GJJ011I MEMBER 1 .MON NOT IN LIBRARY 11:57:23
Z1 0046 GJJ844W EVENT TESTMANY HAS BEEN ABORTED 12:00:00
Z3 0090 GFX405I PCSMAINT SESSION TERMINATED 12:00:41
Z3 0090 GFX405I ASOMAINT SESSION TERMINATED 12:05:51
Z3 0090 GFX404I ASOMAINT SESSION ESTABLISHED 12:05:56
Z3 0090 GFX405I ASOMAINT SESSION TERMINATED 12:06:01
Z3 0090 GFX404I ASOMAINT SESSION ESTABLISHED 12:06:07
ID=ASOMAINT
ENTER BIM-FAQS/ASO COMMAND (OPERATOR) (SCROLL) 12:06:14
    
```

## Conclusion

Once you have accessed BIM-FAQS/ASO Online, you can initialize security and create your own user security definition.

## Setting Up Security

### Task Overview

To use the BIM-FAQS/ASO security feature, you must initialize it. In other words, you need to tell BIM-FAQS/ASO that it should be checking individual security definitions, instead of the default security entry, PROFILE, when someone tries to sign on.

In addition, before you can access any of the automated operations features of BIM-FAQS/ASO, or execute commands from BIM-FAQS/ASO Online, you should create a user security definition for yourself and enable that definition.

### SCTY (Security) Command

The SCTY command takes you to a series of panels. From these panels, a security administrator can authorize users to issue certain commands (or limit the commands they can issue) and authorize users to access automated operations features.

### Tasks

In this section, you will perform the following tasks:

Task	Action
I	Create a user security definition
II	Initialize security



## Step 2

To add a new security definition, type **A** in the input field to the left of PROFILE. Adding a definition copies everything contained in that definition. In this example, by typing **A** next to PROFILE and pressing ENTER, you copy all the security information from the PROFILE definition into a new definition that you will name. The following panel is displayed:

BIM-FAQS/ASO SECURITY				ADD			
USER-ID	_____	PASSWORD	UNUSED	ADMIN	(	)	
AUTO SINON	YES ( )	NO ( )	ONLY ( )				
INTERFACES	ALL ( )	CICS ( )	ICCF ( )	CMS ( )	OTHER ( )		
VM MACHINE	ALL	INCLUDE	EXCLUDE	USER-ID	USER-ID	USER-ID	USER-ID
RESTRICTIONS	( )	( )	( )	_____	_____	_____	_____
CICS TERMINAL	ALL	INCLUDE	EXCLUDE	TERM	TERM	TERM	TERM
RESTRICTIONS	( )	( )	( )	_____	_____	_____	_____
RETURN PROGRAM	_____	ALLOW RETURN TO ALTERNATE PROGRAM ON EXIT FOR CICS					
SINON COMMAND	HELP	ENTER BIM-FAQS/ASO ONLINE INITIAL ENTRY COMMAND					
REDISPLAY TIME	000	ENTER DEFAULT TIMED RE-DISPLAY INTERVAL (SECONDS)					
REDISPLAY MIN	000	ENTER MINIMUM TIMED RE-DISPLAY INTERVAL (SECONDS)					
REDISPLAY IDLE	000	ENTER MAXIMUM TIMED RE-DISPLAY IDLE TIME (MINUTES)					
FAQS SHU,Y OR N	( )	ALLOW USER TO ISSUE IUCV/VMCF SHUTDOWN COMMANDS					
PF01=HELP PF03=END PF05=UPD PF07=BWD PF08=FWD							

Step 3

Type your user ID in the USER-ID field. You want this user ID to be one of the following:

- CMS user ID
- Three-character CICS operator ID
- VTAM terminal ID

For the purposes of demonstration, we'll create a user ID called CMSID.

Overtyping the SINON COMMAND entry, HELP, with **OPS**. Your panel should look like the following:

```

                                BIM-FAQS/ASO SECURITY                ADD
USER-ID          CMSID          PASSWORD          UNUSED          ADMIN ( X )
AUTO SINON      YES ( ) NO ( ) ONLY ( )

INTERFACES      ALL ( ) CICS ( ) ICCF ( ) CMS ( ) OTHER ( )

VM MACHINE      ALL INCLUDE EXCLUDE  USER-ID  USER-ID  USER-ID  USER-ID
RESTRICTIONS    ( ) ( ) ( )  _____

CICS TERMINAL   ALL INCLUDE EXCLUDE  TERM  TERM  TERM  TERM  TERM
RESTRICTIONS    ( ) ( ) ( )  _____

RETURN PROGRAM  _____ ALLOW RETURN TO ALTERNATE PROGRAM ON EXIT FOR CICS

SINON COMMAND   OPS          ENTER BIM-FAQS/ASO ONLINE INITIAL ENTRY COMMAND
REDISPLAY TIME  000          ENTER DEFAULT TIMED RE-DISPLAY INTERVAL (SECONDS)
REDISPLAY MIN   000          ENTER MINIMUM TIMED RE-DISPLAY INTERVAL (SECONDS)
REDISPLAY IDLE  000          ENTER MAXIMUM TIMED RE-DISPLAY IDLE TIME (MINUTES)

FAQS SHU,Y OR N ( ) ALLOW USER TO ISSUE IUCV/VMCF SHUTDOWN COMMANDS

PF01=HELP PF03=END PF05=UPD PF07=BWD PF08=FWD
    
```

It's important to note that this security definition will be an *administrator* definition. Notice the *X* in the ADMIN field. A BIM-FAQS/ASO security administrator can create and tailor user definitions for all BIM-FAQS/ASO users. Only an administrator can access security using the SCTY command. As a result, if you want to return to the security panels (which you do), the definition you create must be authorized as an administrator definition.

By default, the PROFILE user definition is authorized as an administrator. Now that you have created your own administrator security definition, you will want to edit the PROFILE user definition and remove its administrator authorization. Once you have disabled the PROFILE administrator authorization, access to the SCTY command and selected BIM-FAQS/ASO features will be limited to security administrators.



## Task II: Initializing Security

With security access limited to security administrators, an administrator has an almost unlimited ability to allow or limit user access to:

- Displays
- Partition information
- Job statistics
- Commands

However, you must turn on security before you can take full advantage of BIM-FAQS/ASO's powerful security feature.

### Procedure

To initialize security, following the steps below.

#### Step 1

From the initial security panel you just left in the previous procedure, enter **X** in the CONFIG input field. The following panel is displayed:

```

                                BIM-FAQS/ASO SECURITY          CONFIG
USE SCTY ENTRY NOT ONLY PROFILE      ( X )      POWER QUEUE COLOR ATTR
CLEAR KEY IS CLEAR NOT QUIT          ( )      ACTIVE ( GREEN ) ( _ )
DISPLAY EXTENDED MESSAGE             ( X )      FREE ( YELLOW ) ( R )
ALLOW DUMP DASD FUNCTION             ( X )      HOLD ( TURQ ) ( _ )
ALLOW ALTER DASD FUNCTION            ( X )
UPPER CASE ALL DISPLAYS              ( )      MISC. COLOR ATTR
EXTENDED DUMP ON SUBTASK ABEND        ( )      HEADERS ( WHITE ) ( R )
USE XPCC ON POWER COMMANDS           ( X )      D S ( TURQ ) ( R )
SUPPORT IBM IESMSGs FILE             ( X )
(CLOSE NO LONGER SUPPORTED)          ( )      PASSWORD MAX DURATN ( 000 )
DO NOT SUPPORT APL TEXT CHARACTERS   ( )

```

PF01=HELP PF03=END PF05=UPD PF07=BWD PF08=FWD

## Step 2

Enter **X** in the USE SCTY ENTRY NOT ONLY PROFILE field. This tells BIM-FAQS/ASO to check the user ID of the user trying to enter the product and use any secured features.

## Step 3

Press PF05 (UPD) to update the new security configuration. You will return to the initial security panel.

## Step 4

Press PF03 (END) to exit security.

## Step 5

Reenter BIM-FAQS/ASO.

The procedure you use to reenter BIM-FAQS/ASO should be the same procedure you used to enter BIM-FAQS/ASO at the beginning of this chapter.

If the user ID of the user trying to enter BIM-FAQS/ASO matches a user ID defined in security, that user will go directly to the current console display in operator mode.

If the user ID of the user trying to enter BIM-FAQS/ASO does not match a user ID defined in security, that user will see the following panel. This means that the user can still enter BIM-FAQS/ASO by typing a user ID and optional password, or by pressing ENTER and using the default PROFILE security definition.

```

BBBBBBBB  IIIIIIII  MMM      MMM (R)
B         B I      I M M M M
B         B III III M M M M
B         B I I M M M
B        BB  I I M M M M
B         B I I M M M M
B         B III III M M M M
B         B I I M M M M
BBBBBBBB  IIIIIIII  MMMM     MMMM

      BIM-FAQS/ASO ONLINE SUPPORT

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ENTER USER ID
ENTER PASSWORD
NEW PASSWORD          VERIFY

```

## Conclusion

Now that you have security initialized, you are ready to explore additional BIM-FAQS/ASO features.

In the next section, you will be introduced to the BIM-FAQS/ASO console display commands. You will have a chance to access the system console in a variety of ways, and activate the timed redisplay feature to have your console display updated automatically.

# Displaying the System Console

## Task Overview

You can use BIM-FAQS/ASO to display your system console and automatically redisplay it at selected intervals. You can also tailor BIM-FAQS/ASO to route messages and highlight messages, and you can change the colors of system messages or partition messages.

### Tasks

In this section, you will perform the following tasks:

1. Set the console display mode. Use the following commands to display the current console:

**D C** Display the current console. (Pre-ESA 2.1 Only: To save overhead, the timed redisplay feature discussed in this section updates the D C console display only if new information has been written to the console.)

**D S,S** Display the current console in a split panel. Job statistics are displayed at the top; the current console is displayed at the bottom. The SCROLL feature outlined below can be used with D S,S.

**D S,W** Display the current console in a window format with task status information in the upper right-hand corner.

**D S,J** Display PRTY J statistics at the top and the current console at the bottom of the display.

There is insufficient space on split panel displays to display all task information. As a result, only the highest priority partitions are displayed. To circumvent the restriction, use the SCROLL feature to allow all partitions to scroll through the window. This feature can be set by default in the security panels or you can enter SCROLL from the BIM-FAQS/ASO command line.

Through BIM-FAQS/ASO's extensive security feature, all of these displays can be tailored to individual users. For example, you could limit a user ID to see only the console display for the BG partition.

2. Set console timed redisplay. Set BIM-FAQS/ASO to redisplay the current console at any interval from 1 to 99 seconds, using the OP command.

## Task I: Displaying the Current Console

This section will take you through samples of all of the console displays.

### Standard Console Display (D C)

The D C command displays the current system console.

From the BIM-FAQS/ASO command line, enter **D C**. A panel like the following is displayed:

```
F1 0001 1QH3I 1 OF 540 DBLK GROUPS LOST 08:32:15
Z3-0048 GJJ206I JOB SCHEDULER ACTIVE 09:56:46
Z1 0083 GST005I Q016 SESSION TERMINATED 10:39:31
BG 0000 ./-2,4 10:39:32
BG 0000 GJJ022E UPD DELETE PAST EOF 10:39:32
BG 0000 EOJ JCLMAINT MAX.RETURN CODE=0000 10:39:35
DATE 11/26/97,CLOCK 10/39/35,DURATION 00/00/06 10:39:35
Z1 0084 GFX405I Q013 SESSION TERMINATED 10:39:35
F1 0001 1Q34I LST WAITING FOR WORK ON FEE 10:39:35
BG 0001 1Q34I BG WAITING FOR WORK 10:39:35
Z3 0087 It's twenty to eleven. 10:39:36
Z1 0083 GST005I Q013 SESSION TERMINATED 10:39:39
Z1 0083 GST004I Q013 SESSION ESTABLISHED 10:39:46
Z1 0084 GFX404I Q013 SESSION ESTABLISHED 10:39:49
Z1 0084 GFX405I Q013 SESSION TERMINATED 10:39:57
Z1 0083 GST005I Q013 SESSION TERMINATED 10:40:00
Z1 0083 GST004I Q013 SESSION ESTABLISHED 10:40:12
Z1 0084 GFX404I Q013 SESSION ESTABLISHED 10:40:14

ENTER BIM-FAQS/ASO COMMAND 10:40:27
```

Split Panel Console (D S,S)

The D S commands allow you to access more job information than the D C command. You can use the D S,S command to display the current console in a split panel with job statistics displayed in the top half of the panel and current job information displayed in the bottom half of the panel.

From the BIM-FAQS/ASO command line, enter **D S,S**. A panel like the following is displayed:

```

JOBNAME  PHASE  DURATION  CPU SEC.  SIO CNT  TASK STATUS
F1  POWSTART  IPWPOWER  26.06.33  1651.53  130277  82 82 82
F3  VTAMSTRT  ISTINCVT  26.06.05  097.23   54113  82 82 82 82 82
Z3  JCLSCHEDE  JCLSCHEDE  26.05.27  249.59   103002 82 82 82 82
Z2  FAQSIUX   FAQSIUX   26.05.37  049.13   192     82
Z1(0)  FAQSMAN  BIM$UTTS  26.06.03  154.56   5981   82 82 83 83 82 83 82
F2  CICSICCF  DFHSIP   26.05.23  188.09   7205   82 82 82 82 82 82
F4  VSE1CICS  DFHSIP   25.47.57  126.02   11137  82 82 82 82 82
C1  AXPL1    AXPL1    01.09.52  001.18   476    82 82 82
Y1  VSE1EDIT  BIMEDIT  16.34.01  044.29   6409   82 82
CPU :  0.46%      PAGING  IN :  0/SEC      OUT :  0/SEC
REPLY -> Z3-0048
-----
F1 0001 IQH3I  1 OF 540 DBLK GROUPS LOST 08:32:15
Z3-0048 GJJ206I JOB SCHEDULER ACTIVE 09:56:46
Z1 0084 GFX404I Q013  SESSION ESTABLISHED 10:39:49
Z1 0084 GFX405I Q013  SESSION TERMINATED 10:39:57
Z1 0083 GST005I Q013  SESSION TERMINATED 10:40:00
Z1 0083 GST004I Q013  SESSION ESTABLISHED 10:40:12
Z1 0084 GFX404I Q013  SESSION ESTABLISHED 10:40:14
ENTER BIM-FAQS/ASO COMMAND 10:42:02

```

### Console with Task Status and CPU Usage (D S,W)

The D S,W command displays the current system console with task status and CPU usage statistics in the upper right-hand corner of the display.

From the BIM-FAQS/ASO command line, enter **D S,W**. A panel like the following is displayed:

```

CPU: 5.55%
Z1(0) FAQSMAIN
83 FAQXASUB
83 FAQXCSUB
83 FAQCMSUB
83 FAQSVMX

F1 0001 1QH3I 1 OF 540 DBLK GROUPS LOST
Z3-0048 GJJ206I JOB SCHEDULER ACTIVE
Z1 0083 GST005I Q016 SESSION TERMINATED
BG 0000 ./-2,4

BG 0000 GJJ022E UPD DELETE PAST EOF
BG 0000 EOJ JCLMAINT MAX.RETURN CODE=0000
DATE 11/26/97,CLOCK 10/39/35,DURATION 00/00/06
Z1 0084 GFX405I Q013 SESSION TERMINATED
F1 0001 1Q34I LST WAITING FOR WORK ON FEE
BG 0001 1Q34I BG WAITING FOR WORK
Z3 0087 It's twenty to eleven.
Z1 0083 GST005I Q013 SESSION TERMINATED
Z1 0083 GST004I Q013 SESSION ESTABLISHED
Z1 0084 GFX404I Q013 SESSION ESTABLISHED
Z1 0084 GFX405I Q013 SESSION TERMINATED
Z1 0083 GST005I Q013 SESSION TERMINATED
Z1 0083 GST004I Q013 SESSION ESTABLISHED
Z1 0084 GFX404I Q013 SESSION ESTABLISHED
REPLY -> Z3-0048
ENTER BIM-FAQS/ASO COMMAND

```

### Console with Automatic Scrolling (D S,J)

The D S,J command displays the current system console in a split panel with PRTY J statistics at the top and the current system console at the bottom.

From the BIM-FAQS/ASO command line, enter **D S,J**. A panel like the following is displayed:

```

      JOBNAME  DURATION  PHASE    DURATION  CPU SEC.  TASK STATUS  SIO CNT
F1  POWSTART  26.20.21  IPWPOWER  26.16.52  1653.19  82 - W-I/O  130526
F3  VTAMSTRT  26.19.49  ISTINCVT  26.16.24  098.65  82 - W-I/O  54717
Z3  JCLSCHEd  26.19.11  JCLSCHEd  26.15.47  250.28  82 - W-I/O  103244
Z2  FAQSIUX   26.19.21  FAQSIUX   26.15.56  051.37  82 - W-I/O   192

      *** SUBTASKS ***
F1  IPW$$LS   82 - W-I/O   IPW$$S1   82 - W-I/O
F3  VTAMRP    82 - W-I/O   ISTPDCLU  82 - W-I/O   ISTMTINV  82 - W-I/O
      ISTINMLS  82 - W-I/O
CPU : 12.74%    PAGING  IN :    0/SEC    OUT :    0/SEC
REPLY -> Z3-0048
-----
F3 0003 IST893I ORIGINAL FAILING REQUEST IS BIND                10:51:16
F3 0003 IST314I END                                           10:51:16
Z1 0083 GST007E VTAM ERROR Q013      17 04 10 100100 080A0000    10:51:16
Z1 0083 GST007E VTAM ERROR Q013      17 04 10 100100 080A0000    10:51:29
Z1 0084 GFX405I Q016          SESSION TERMINATED                10:51:37
Z1 0083 GST005I Q016          SESSION TERMINATED                10:51:39
Z1 0083 GST004I TR93          SESSION ESTABLISHED                10:52:06
Z1 0084 GFX404I TR93          SESSION ESTABLISHED                10:52:15

ENTER BIM-FAQS/ASO COMMAND                                           10:52:23

```

### Conclusion

You have learned how to use the basic BIM-FAQS/ASO console display commands. Next you will learn how to set the console display to automatically update at a specific interval.

## Task II: Setting Console Timed Redisplay

With BIM-FAQS/ASO, you can set your console display to update automatically at an interval you specify.

TIMED DISPLAY disappears from the bottom of the console display when the maximum idle time, specified in the user's security profile, is exceeded.

### OP (Operator) Command

The OP command puts BIM-FAQS/ASO in operator mode. In operator mode, BIM-FAQS/ASO updates the current console display every  $n$  seconds, where  $n$  is the interval you specify. The default value can be set from the security panels. By default, the console display is updated according to the value set in the REDISPLAY TIME field in security.

From operator mode, you can also enter operator commands directly to the console. You will have the opportunity to do this later in this chapter when you tailor your console display.

### D C Display

On ESA 2.1, the D C console display updates every  $n$  seconds, where  $n$  is the redisplay interval specified in security.

In Pre-ESA 2.1 versions of BIM-FAQS/ASO, the D C console display updates only when necessary, regardless of the default timed redisplay interval.

## Entering Timed Display Mode

From the BIM-FAQS/ASO command line, enter **OP**. Since the default value set in security is four seconds, the panel is automatically updated every four seconds.

For example, if you entered OP mode from the D S,S display, a panel like the following is displayed. The words adjacent to the BIM-FAQS/ASO command line -- *(OPERATOR MODE)* and *(TIMED DISPLAY)* -- indicate that the console display is in operator mode and timed redisplay mode.

	JOBNAME	PHASE	DURATION	CPU SEC.	SIO CNT	TASK STATUS	
F1	POWSTART	IPWPOWER	26.29.26	1653.19	130526	82 82 82	
F3	VTAMSTRT	ISTINCVT	26.28.58	099.76	55089	82 82 82 82 82	
Z3	JCLSCHED	JCLSCHED	26.28.20	250.55	103269	82 82 82 82	
Z2	FAQSIUX	FAQSIUX	26.28.29	053.89	192	82	
Z1(0)	FAQSMAN	BIM\$UTTS	26.28.55	169.71	8133	82 82 83 83 82 83 82	
F2	CICSICCF	DFHSIP	26.28.16	193.87	7373	82 82 82 82 82 82	
F4	VSE1CICS	DFHSIP	26.10.49	126.96	11137	82 82 82 82 82	
C1	AXPL1	AXPL1	01.32.45	001.24	492	82 82 82	
Y1	VSE1EDIT	BIMEDIT	16.56.54	044.41	6444	82 82	
CPU :		1.07%	PAGING	IN :	0/SEC	OUT :	0/SEC
REPLY -> Z3-0048							
-----							
F1	0001	1QH3I	1 OF 540	DBLK GROUPS LOST		08:32:15	
Z3-0048	GJJ206I	JOB SCHEDULER	ACTIVE			09:56:46	
Z1	0083	GST004I	Q013	SESSION ESTABLISHED		11:03:03	
Z1	0084	GFX404I	Q013	SESSION ESTABLISHED		11:03:04	
Z1	0084	GFX405I	Q013	SESSION TERMINATED		11:03:45	
Z1	0084	GFX405I	TR93	SESSION TERMINATED		11:04:06	
Z1	0084	GFX404I	TR93	SESSION ESTABLISHED		11:04:08	
ENTER BIM-FAQS/ASO COMMAND (OPERATOR) (TIMED DISPLAY)						11:04:58	

## Conclusion

In this section, you learned how to display the console and set the console display to automatically update at a specific interval.

In the next section, you will learn how to tailor the BIM-FAQS/ASO console display. You will learn how to change the console display colors and route specific messages to the console.

# Tailoring the Console Display

## Task Overview

Earlier you created your own security definition. This definition allows you to tailor the initial sign-on panel, PF-key definitions, and many more features to your liking. You can also tailor the BIM-FAQS/ASO console displays.

For example, you can set up the console to display critical error and abend messages in the color of your choice. If you want a particular class of messages (for example, all of the messages beginning with *0S*) routed to the console, you can set up a message route ID for these messages and display them using a BIM-FAQS/ASO console command, or a console command that you create.

### Tasks

In this section, you will perform the following tasks:

Task	Action
I	Change message routing and console display colors
II	Assign message routing to an online command

### Pre-ESA 2.1

Tasks I and II in this section outline a procedure for changing the console display that applies only to pre-ESA 2.1 users. With ESA 2.1, BIM-FAQS/ASO users should instead use console filtering to route messages and change console colors. For information about console filtering, see Chapter 6, “Console Filtering.”



*Continued*

Step	Action
2	Enter <b>X</b> in the CONFIG field.

```

                                BIM-FAQS/ASO SECURITY
CONFIG      ( X )                2  DEFINED FAQS USERS          START SCREEN ( 1 )
      USER ID  MODEL ID      USER ID  MODEL ID      USER ID  MODEL ID
      -PROFILE -              -              -              -
      -CMSID   -              -              -              -
    
```

This takes you to the following panel:

```

                                BIM-FAQS/ASO SECURITY          CONFIG
USE SCTY ENTRY NOT ONLY PROFILE      ( X )  POWER QUEUE  COLOR  ATTR
CLEAR KEY IS CLEAR NOT QUIT          ( )    ACTIVE      ( GREEN ) ( _ )
DISPLAY EXTENDED MESSAGE             ( X )  FREE        ( YELLOW ) ( R )
ALLOW DUMP DASD FUNCTION             ( X )  HOLD        ( TURQ  ) ( _ )
ALLOW ALTER DASD FUNCTION            ( X )
UPPER CASE ALL DISPLAYS              ( )    MISC.       COLOR  ATTR
EXTENDED DUMP ON SUBTASK ABEND       ( )    HEADERS     ( WHITE ) ( R )
USE XPCC ON POWER COMMANDS          ( X )  D S        ( TURQ  ) ( R )
SUPPORT IBM IESMSGs FILE             ( X )
CLOSE FAQMSG/IESMSGs VSAM FILES     ( X )
DO NOT SUPPORT APL TEXT CHARACTERS  ( )

PF01=HELP PF03=END PF05=UPD PF07=BWD PF08=FWD
    
```

*Continued*







## Task II: Assigning Message Routing to an Online Command

A powerful feature of BIM-FAQS/ASO is the ability to assign an existing console command to a new online command which you create. Basically, you can create your own mnemonic command name to assist you in accessing system information quickly and easily.

For example, in the procedure that follows, we'll show you how to create an online command to display the messages you routed in the previous section. We'll create an online command, *JOBERRS*, which BIM-FAQS/ASO will intercept and process as *D C,ID=05*, a command that is used to display messages with route ID 05. You will find that *JOBERRS* is an easier command to use than *D C,ID=05*.

### Procedure

BIM-FAQS/ASO provides you with an easy-to-use panel to define online commands. To assign message routing to an online command, take the following steps:

Step	Action
1	<p>From the BIM-FAQS/ASO command line, enter <b>AO</b>. The BIM-FAQS/ASO Main Menu is displayed.</p> <p><b>Note:</b> To enter AO, you must have authority defined in your BIM-FAQS/ASO security profile to allow access to the AO menu panels.</p>

```

FAOMENU0.*          ** BIM-FAQS/ASO Online V5.1x **          ID=TECHVSE.SJA
====>

                *** BIM-FAQS/ASO -- Main Menu ***
I      Initialization and Configuration

R      REXX      - REXX IMOD member/directory Maintenance
D      LOCK     - Online Lock file display
S      SYSOUT   - Sysout member/directory Maintenance
L      GSFAQSHC - Online Job Generation for Hardcopy File Maintenance

                                GSS Utilities
V      MSHP     - Online MSHP History Display
U      BIM$PUTL - Online Job Generation for Partitioned Data Sets
A      PDS      - Display Partitioned Data Set Statistics

PF01=Help PF03=Return PF12=Exit
    
```

*Continued*

*Continued*

- | Step | Action  |
|------|---|
| 2    | From the FAQs/ASO Main Menu, enter <b>I</b> . The Initialization and Configuration menu is displayed: |

```

FAOMENU.I      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====>

          ** BIM-FAQS/ASO -- Initialization and Configuration

G      GSFAQS Startup Definitions
P      Console PFKEY Definitions
M      Message Definitions
C      Command Definitions

R      REXX Imod Initialization and Tailoring
E      Event Definitions
O      BIM-FAQS Online Command Definition and Maintenance
A      BIM-CPR (CICS Auto Print) Initialization
B      BIM-FAQS/CALL Definition and Maintenance

PF01=Help PF03=Return PF12=Exit

```

- |   |   |
|---|---|
| 3 | From the Initialization and Configuration menu, enter <b>O</b> . The Online Command File Directory List is displayed: |
|---|---|

```

FAOMENUO.O    ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====>
** BIM-FAQS/ASO -- Online Cmd File Directory List **      Key ==> *      <==

CPUID:        RECORDS      UPDATE TIMESTAMP      LOAD TIMESTAMP
- *           9           10/30/97 13.05.15      11/25/97 08.34.43

X=Edit L=Delete R=Rename C=Copy

PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def

```

In this case, \* is the name of the supplied online command file. This online command file will be loaded if there's no match on a CPU-specific online command file.

*Continued*

*Continued*

Step	Action
4	Enter <b>C</b> in the input field to the left of *. The cursor will automatically tab to another input field. Enter the CPU ID of your VSE machine. To determine this ID, see the ID= value in the upper right-hand corner of the panel. For example, we'll use TECHVSE for our new filename. This will become the online command file filename. Press ENTER and the following panel is displayed:

```

FAOMENUO.0      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====>
** BIM-FAQS/ASO -- Online Cmd File Directory List **  Key ==> *      <==

CPUID:          RECORDS   UPDATE TIMESTAMP      LOAD TIMESTAMP
_ *              **** COPIED TO TECHVSE ****

X=Edit L=Delete R=Rename C=Copy

PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def
    
```

5	Press PF4 (Refresh) and a panel like the following is displayed. Notice the new entry for <i>TECHVSE</i> .
---	--

```

FAOMENUO.4      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHSE.SJA
====>
** BIM-FAQS/ASO -- Online Cmd File Directory List **  Key ==> *      <==

CPUID:          RECORDS   UPDATE TIMESTAMP      LOAD TIMESTAMP
_ *              9        10/30/97 13.05.15      11/25/97 08.34.43
_ TECHVSE        10        11/26/97 15.19.31      00/00/00 00.00.00

X=Edit L=Delete R=Rename C=Copy

PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def
    
```

*Continued*

*Continued*

Step	Action
6	Enter <b>X</b> in the input field to the left of <i>TECHVSE</i> , the file you just created by copying the supplied online command file called *. This takes you to the Online Commands Directory List:

```

FAOMENUO.3      ** BIM-FAQS/ASO Online V5.1x **          ID=TECHSE.SJA
====>
** BIM-FAQS/ASO -- Online Cmds Directory List **      FILE ==> TECHVSE  <==
                                                    Key ==> *          <=
Online Cmd:  Description                               New command
- C          current file                             PCS C
- GSFAQSHC   generate gsfaqshc job                    AO L
- JOBNAME    run IMOD                                 IMOD $JOBNAME @
- MSHP       Display MSHP Information                 AO V
- PHASE      Display phase information                 IMOD $PHASE @
- REPLID     Display REPLID Information               IMOD $REPLID
- REXX       run IMOD                                 IMOD @ @ @ @ @ @
- U          Edit a PDS member                         .U=@ @ @
- X          Edit an IMOD                              .U=@.OAL

X=Edit L=Delete A=Add

PF1=Help PF3=Return PF4=Refresh PF5=IMOD Menu PF6=Load

```

7	Enter <b>A</b> in the first online command's input field. The following panel is displayed:
---	---

```

FAOMENUO.M      ** BIM-FAQS/ASO Online V5.1x **          ID=TECHSE.SJA
====>
** BIM-FAQS/ASO -- Online Cmd Definition **          FILE ==> TECHVSE  <==

New Command: ==>                                     <== Online command to intercept
Description: ==>                                     <==

Replacement Command to issue:

Display command and description in help screen          YES  NO
                                                         ( ) ( )

Allow arguments to be passed as variables to the new command ( ) ( )
Also pass COMMAND as the first variable                ( ) ( )

(substitution occurs at '@' symbols)

PF1=Help PF3=Return PF5=Save

```

*Continued*

*Continued*

Step	Action
8	Enter <b>JOBERRS</b> in the <i>COMMAND:==&gt;</i> input field.
9	Tab to the <i>Description:==&gt;</i> input field and enter <b>Display jobs and related errors.</b>
10	Tab to the <i>Replacement command to issue:</i> input field and enter <b>D C,ID=05.</b>
11	For <i>Display command and description in help screen</i> , select <b>YES.</b>
12	For <i>Allow arguments to be passed as variables to the new command</i> , select <b>NO.</b>
13	For <i>Also pass COMMAND as the first variable</i> , select <b>NO.</b>

Your panel should look like this:

```

FAOMENUO.M          ** BIM-FAQS/ASO Online V5.1x **          ID=TECHSE.SJA
===>
      ** BIM-FAQS/ASO -- Online Cmd Definition **          FILE ==> TECHVSE <==

COMMAND:    ==> JOBERRS          <== Online command to intercept
Description: ==> Display jobs and related errors          <==

Replacement Command to issue:
D C,ID=05

                                                    YES  NO
Display command and description in help screen          ( x ) (   )

Allow arguments to be passed as variables to the new command (   ) ( x )
Also pass COMMAND as the first variable                 (   ) ( x )

(substitution occurs at '@' symbols)

PF1=Help PF3=Return PF5=Save
    
```

14	Press PF5 (Save) to save the new JOBERRS online command in the current online command file.
15	Press PF3 (Return) to return to the Online Commands Directory List.
16	Press PF6 (Load) to load the TECHVSE online command file. This makes TECHVSE the current online command file. You will see the following message:  GFT260I ONLINE COMMAND FILE TECHVSE LOADED  Press PF3 (Return) until you return to a console display.

*Continued*

*Continued*

Step	Action
17	<p>Enter <b>JOBERRS</b> on the BIM-FAQS/ASO command line. You will see a display like the following, containing only the beginning and end of jobs and critical messages.</p> <p>Note that near the bottom, the display indicates the route ID (05) of the messages being displayed.</p>

```

01 FB 011 EOJ FPSX1                                13:38:31
02 FB 011 // JOB F0052713                          13:47:44
03 BG 000 EOJ F0052713 MAX.RETURN CODE=0000       13:38:31
04 FA 010 EOJ F0052713 MAX.RETURN CODE=0000       13:38:31
05 FB 011 EOJ F0052713 MAX.RETURN CODE=0000       13:38:31
06 BG 000 // JOB FPSX1                              13:38:31
07 BG 000 0S05I PHASE BPDUMP NOT FOUND            13:38:31
08 BG 000 0S00I JOB FPSX1 CANCELED.                13:38:31
09 BG 000 1S78I JOB TERMINATED DUE TO PROGRAM ABEND 13:38:31
10 BG 000 EOJ FPSX1                                13:38:31
11 FA 010 0V16I JOB NO NAME CANCELED. REQUEST FROM VSE POWER 13:38:31
12 FA 010 EOJ NO NAME                              13:38:31
13 BG 000 // JOB FPSX1                              13:38:31
14 BG 000 1S78I JOB TERMINATED DUE TO PROGRAM ABEND 13:38:31
15 BG 000 EOJ FPSX1                                13:38:31
16 BG 000 // JOB EVSED2T FOR WOOSTER : DUMP PREVIOUSLY ARCHIVED DISK DATA TO
17 BG 000 1S78I JOB TERMINATED DUE TO OPERATOR CANCEL 14:32:32
18 BG 000 EOJ EVSED2T                              14:32:32
19 BG 000 // JOB REPORT WRITER                      BJM155      14:33:46
20 BG 000 EOJ REPORT MAX.RETURN CODE=0000         14:34:31
ID=05
ENTER BIM-FAQS/ASO COMMAND                        15:19:30

```

Take a minute to note the colors of the various messages displayed on the console. The console message colors reflect the changes you specified from the security panels. You may want to enter *DL* a number of times to view the displays.

18	Repeat steps 6-17. Create an online command named <b>CURRENT</b> that will execute the <b>D C,ID=OFF</b> command to return the console display to the normal display mode.
19	Repeat steps 8-16 using <b>CURRENT</b> instead of <b>JOBERRS</b> . Specify <b>D C,ID=OFF</b> as the command to execute as <b>CURRENT</b> .  Try entering <b>JOBERRS</b> and then <b>CURRENT</b> a few more times to become accustomed to using the console commands you just created.

## Conclusion

In this section, you learned how to assign message routing to an online command.

In the next section, you will display **POWER** queue members. You will also display and edit a reader queue member, and display and browse through a print queue member using BIM-FAQS/ASO **POWER** commands.

## Displaying POWER Queue Information

### Task Overview

With BIM-FAQS/ASO, you can access information about the following POWER queues:

- RDR (reader)
- LST (print)
- PUN (punch)
- XMT (transmit)

### Tasks

In this section, you will perform the following tasks:

Task	Action
I	Display print queue members
II	Browse through a print queue member display
III	Display reader queue members
IV	Edit a reader queue member

### For More Information

For more information about POWER queue commands, enter **HELP POWER** from the BIM-FAQS/ASO command line. This takes you to the BIM-FAQS/ASO POWER help facility.

## Task I: Displaying Print Queue Members

You can use the D LST command to list POWER print queue members.

### Procedure

Enter **D LST**. All of the POWER print queue members are displayed.

```

FAQMENPl.*          ** BIM-FAQS/ASO Online V5.1A **          ID=VSE.MKJ
====>
** BIM-FAQS/ASO -- POWER LST Queue Display List **

  Name      Jobno  Suf  P  D  C  S  Cds/Pgs  Cpy  Form   Date      Time  User info
-  AXPREXX  60355  000  3  D  Z           3  001      11/17/99  13:13:22 BIMALRTV
-  GSPDSU   62668  000  3  D  Z           3  001  DRJ    02/08/00  08:00:11 BIM$PUTL ANA
-  GSPDSU   62785  000  3  D  Z           3  001  DRJ    02/08/00  12:04:31 BIM$PUTL ANA
-  GSPDSU   62803  000  3  D  Z           3  001  DRJ    02/08/00  16:08:28 BIM$PUTL ANA
-  BIM$ADUT  63066  000  3  D  Z           7  001  DRJ    02/09/00  15:51:01 BIM$ADUT
-  GSPDSU   63157  000  3  D  Z           3  001  DRJ    02/15/00  08:00:25 BIM$PUTL ANA
-  GOPTRACE 61703  000  3  H  A            4  001      01/20/00  11:08:56
-  GOPTRACE 61704  000  3  H  A            3  001      01/20/00  11:17:55
-  GOPTRACE 61709  000  3  H  A           14  001      01/20/00  11:49:02
-  TAPEPTF  61721  000  3  H  A           28  001      01/20/00  12:57:51
-  GOPTRACE 61859  000  3  H  A           14  001      01/25/00  08:27:41
-  GOPTRACE 61860  000  3  H  A          189  001      01/25/00  08:29:08
-  FSUPREP  62425  000  3  H  A            3  001      02/02/00  10:21:22
-  RESIDENT 62432  000  3  H  A            4  001      02/02/00  11:19:41
-  GOPTRACE 62433  000  3  H  A          229  001      02/02/00  11:24:16

PF2=Redsply, interval 5
E=Exp A=Alt "="Dup D=Dsp X=Edt H=Hld P=Prt R=Rel L+PF10=Del
PF1=Help PF3=Retn PF4=Refrsh PF5=Top PF6=Bot PF8=Fwd PF11=Chg Mode
  
```

### Securing POWER Queue Displays

Recall that you can secure all the POWER queue displays from the security panels. You can also tailor these displays.

### Conclusion

Now that you have displayed the print queue, we'll show you how to display a member and browse through it.

## Task II: Browsing Through a Print Queue Member

From the print queue, you can choose an individual member to display. Once you have displayed a print queue member, you can use a variety of commands to browse through that member, or search for a particular character string.

### Procedure

To become familiar with some of the POWER editing commands available through BIM-FAQS/ASO, browse through a print queue member. Choose a print queue member to display and take the following steps:

Step	Action
1	Type <b>D</b> in the input field to the left of the print queue member you want to display and press ENTER. The member is displayed.
2	Page through your member display and find a string of data to search for. Use this data to practice on.
3	Return to the top of the display (TOP command), and enter <code>/scandata[]</code> on the command line. <i>scandata</i> is the string of data you chose in step 2.
4	Set this data as a reference point. Enter <b>SET .11</b> on the member display command line. This sets a reference point of .11 to the line your <i>scandata</i> data resides on.
5	From the member display command line (===>), enter <b>PAGE LAST</b> . This command will take you to the beginning of the last page in the member.
6	Enter <b>.11</b> . The line where <i>scandata</i> appears becomes the first line in the display.
7	Repeat steps 4-7 if desired, using reference points <i>.22</i> , <i>.33</i> , <i>.44</i> , etc. We're using these reference points for convenience. A period followed by anything will work as a reference point. You could just as easily specify <i>.PSW</i> , <i>.REGS</i> , and <i>.ERRS</i> .

Now, press PF01 (Help) and look through all the available POWER editing commands online. This comprehensive online help is available from any POWER member display. A sample online help panel is shown on the following page.

*Continued*

---

*Continued*

---

Step	Action
8	Press PF01 from any POWER queue member display and you will see the BIM-FAQS/ASO POWER help display. Take a moment to page forward to see all the available commands.

---

```
====>
HPWRMEM:  BIM-FAQS/ASO POWER HELP DISPLAY

          Backward      Page backward one screen.
          Forward       Page forward one screen.
          TOP           Go to the top of the member.
          BOTtom       Go to the bottom of the member.
          Next nn      Display the member starting nn lines after current
                      line.

PF08=FWD PF07=BCK
```

---

## Conclusion

BIM-FAQS/ASO allows you easy access to POWER queue displays and provides you with powerful editing tools and a comprehensive online help facility.

Now that you have displayed the POWER print queue and browsed through a print queue member, we'll show you how to display the POWER reader queue.

### Task III: Displaying Reader Queue Members

You can use the D RDR command to list POWER reader queue members.

#### Procedure

You should be looking at a console display after executing JOBERRS. From the BIM-FAQS/ASO command line, enter **D RDR**. All of the POWER reader queue members are displayed.

```

FAQMENP1.*          ** BIM-FAQS/ASO Online V5.1A **          ID=VSE.MKJ
====>
** BIM-FAQS/ASO -- POWER RDR Queue Display List **

  Name      Jobno  Suf  P  D  C  S  Cds/Pgs  Cpy  Form  Date      Time  User info
- TPRINT   63175   3  D  0           6          02/15/00 10:16:05
- CICSICCF 62495   3  *  2          60          05/12/99 06:30:52 BIM
- VTAMSTRT 62491   3  *  3          14          03/30/99 16:52:07
- AXPBR14  63167   3  D  3           8          02/15/00 09:32:34 ERIC
- VSE1C51A 62497   3  *  4          140         11/15/99 14:39:27
- FAQSMTS2 63094   4  *  8          13          10/19/99 14:45:40 P390VSE
- FAQSAO   63161   3  *  9           7          06/10/99 10:30:51 P390VSE
- ALTLOGGR 62492   3  *  C           6          11/02/99 12:51:07 BIM-ALERT LOGG
- FAQSMAIN 50201   3  D  Q          16          03/30/99 16:52:07 P390VSE
- FAQSIUX  50202   3  D  Q          13          03/30/99 16:52:47 P390VSE
- FAQSMAIN 59138   4  K  W          14          10/07/99 09:54:23 P390VSE
- VSE1EDIT 62518   3  *  Y          30          03/30/99 16:52:46
- FAQSMTS1 63085   4  *  Z          13          10/19/99 14:41:41 P390VSE
- FAQXCONS 62493   3  *  Z          11          03/30/99 16:52:47 P390VSE
- PAUSE    62673   9  L  0           8          07/01/99 09:21:03 BLA BLA BLA

PF2=Redsply, interval 5
E=Exp A=Alt "=Dup D=Dsp X=Edt H=Hld P=Prt R=Rel L+PF10=Del
PF1=Help PF3=Retn PF4=Refrsh PF5=Top PF6=Bot PF8=Fwd PF11=Chg Mode
  
```

#### Securing POWER Queue Displays

Earlier, we mentioned that you can secure access to various console displays using BIM-FAQS/ASO security. You can do the same thing with POWER queue displays. By altering a user's security definition, you have virtually unlimited ability to allow or restrict access to the POWER queues.

#### Conclusion

Now that we've shown you how to display the POWER reader queue, we'll show you how to edit a reader queue member.

## Task IV: Editing a Reader Queue Member

With BIM-FAQS/ASO, you can edit POWER reader queue members online. You can secure this feature for a particular user definition by turning off the edit feature for the reader queue from the appropriate security panel.

### Procedure

You should be looking at the POWER reader queue you displayed in the previous procedure. (If you have moved from the POWER reader queue display, enter **D RDR** from the BIM-FAQS/ASO command line in a console display to access the POWER reader queue again.)

To edit a reader queue member, take the following steps:

Step	Action
1	<p>From the POWER reader queue display, type <b>X</b> in the input field to the left of a member name. We are going to edit a member called TPRINT from the display in the previous task.</p> <p><b>Note:</b> You are not editing the original member. You are editing a copy loaded into storage.</p> <p>You will see a display like the following:</p>

```

=>
1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...8
* * * * B E G I N F I L E * * * * *                               =====
* $$ JOB JNM=TPRINT,DISP=L,PRI=3,CLASS=0,USER='BM01              '      =====
* $$ LST DISP=H                                                  =====
// JOB TPRINT                                                    =====
// ASSGN SYS001,DISK,VOL=DSKC00,SHR      *REQUIRED BY TPRINT FOR TRFILE =====
// ASSGN SYS004,SYS001                  *REQUIRED BY TPRINT FOR TRFILE =====
// EXEC TPRINT                                                    =====
/&                                                                  =====
* $$ EOJ                                                          =====
* * * * E N D F I L E * * * * *                               =====

```

*Continued*



*Continued*

Step	Action
4	Press PF3 (QUIT) twice to return to the BIM-FAQS/ASO console display, and enter <b>D RDR</b> again. You will see a new entry with the same name but a different job number added to the reader queue member list.

Compare this updated reader queue with the reader queue display on page 36. There are now two TPRINT entries. The newer entry, identified by a new job number, is the edited member we submitted to POWER. Notice the number of cards in the member is now 11, due to the line you added and other lines added for BIM-FAQS/PCS use.

```

FAQMENP1.*          ** BIM-FAQS/ASO Online V5.1A **          ID=VSE.MKJ
====>
** BIM-FAQS/ASO -- POWER RDR Queue Display List **

  Name      Jobno  Suf  P  D  C  S  Cds/Pgs  Cpy  Form   Date      Time   User info
- TPRINT    63175   3  D  0           6           02/15/00 10:16:05
- CICSICCF  62495   3  *  2           60          05/12/99 06:30:52 BIM
- VTAMSTRT  62491   3  *  3           14          03/30/99 16:52:07
- AXPBR14   63167   3  D  3           8           02/15/00 09:32:34 ERIC
- VSE1C51A  62497   3  *  4          140          11/15/99 14:39:27
- FAQSMTS2  63094   4  *  8           13          10/19/99 14:45:40 P390VSE
- FAQSAO    63161   3  *  9           7           06/10/99 10:30:51 P390VSE
- ALTLOGGR  62492   3  *  C           6           11/02/99 12:51:07 BIM-ALERT LOGG
- FAQSMAIN  50201   3  D  Q           16          03/30/99 16:52:07 P390VSE
- FAQSIUX   50202   3  D  Q           13          03/30/99 16:52:47 P390VSE
- FAQSMAIN  59138   4  K  W           14          10/07/99 09:54:23 P390VSE
- VSE1EDIT  62518   3  *  Y           30          03/30/99 16:52:46
- FAQSMTS1  63085   4  *  Z           13          10/19/99 14:41:41 P390VSE
- FAQXCONS  62493   3  *  Z           11          03/30/99 16:52:47 P390VSE
- TPRINT    62678   3  L  0           11          07/01/99 09:21:03

PF2=Redsply, interval 5
E=Exp A=Alt *=Dup D=Dsp X=Edt H=Hld P=Prt R=Rel L+PF10=Del
PF1=Help PF3=Retn PF4=Refersh PF5=Top PF6=Bot PF8=Fwd PF11=Chg Mode
  
```

## Conclusion

In this section, you learned how to display the print and reader queues, browse through a print queue member, and edit a reader queue member.

In the next section, you will learn how to access POWER queue members, edit a reader queue member, browse through a print queue member, and access POWER online help.

## Additional POWER Commands

There are many POWER commands you can enter from the POWER queue displays or from the BIM-FAQS/ASO command line. Many POWER commands have selection criteria to help you narrow the search for queue members. These criteria are the same as standard VSE/POWER commands.

A complete discussion of all the BIM-FAQS/ASO POWER commands is contained in the *BIM-FAQS/ASO Online User's Guide*.

### Commands

The following table lists all of the POWER commands available from POWER queue displays. The abbreviated form of the command is contained in parentheses.

Command	Explanation
PALTER (A)	Alters the POWER members in the specified queue that meet the selection criteria.
PHOLD (H)	Changes the disposition to H of POWER members in the specified queue that meet the selection criteria.
PRELEASE (R)	Releases POWER members in the specified queue that meet the selection criteria.
PDELETE (L)	Deletes POWER members in the specified queue that meet the selection criteria.

The following additional POWER commands are available from BIM-FAQS/ASO:

Command	Explanation
D ACT, <i>pid</i>	Displays an active POWER member for the specified partition ID. This useful command allows you to see the output from jobs as it is written to SYSLST (POWER).
D A	Displays a full-panel representation of the POWER D A (Display Active) command.

## Conclusion

In this section, you learned how to access POWER queue members, edit a reader queue member, browse through a print queue member, and access POWER online help.

In the next section, you will use the CURSOR command. CURSOR opens a temporary command line in any BIM-FAQS/ASO display. It provides a powerful shortcut for entering lengthy data strings.

## Opening a Temporary Command Line

### Task Overview

You can use the `CURSOR` command to set up a temporary command line on the console, or on any console display. `CURSOR` is an extremely useful command when you need to enter lengthy data strings accurately. `CURSOR MSG` is a special case of the `CURSOR` command which you can use to display message explanations as they appear on your console.

While you can enter either of these commands from the `BIM-FAQS/ASO` command line, it is easier to assign them to PF keys.

### Tasks

In this section, you will perform the following tasks:

Task	Action
I	Change a VSE machine's partition balancing scheme. Use the <code>ASO S</code> command to display your VSE machine's current partition balancing scheme. Use the <code>CURSOR</code> command to open a temporary command line, change the current partition balancing scheme online, and enter the new balancing scheme.
II	Display a console message explanation. Use the <code>CURSOR</code> message command to display a console message explanation without entering any commands.

## Task I: Changing Partition Priority

The **CURSOR** command is a powerful shortcut for entering lengthy data that absolutely must be accurate.

When you created your security definition, you copied the default security definition's PF key definitions. If you check your definition, you will see that PF13 and PF14 are already defined to **CURSOR** and **CURSOR MSG**, respectively. In this section, we'll show you how to use these pre-assigned PF keys to open a temporary command line and display a message explanation.

### Example

Let's say you want to change the priority of your partitions. Suppose you have the following partition balancing scheme:

```
PRTY FB,F9=F6=BG=FA=F8,F4,F5,F2,F7,F3,F1
```

You want to promote F8, for example, to a higher priority, just below F4. So you need to type in the following:

```
PRTY FB,F9=F6=BG=FA,F8,F4,F5,F2,F7,F3,F1
```

However, with the **CURSOR** command, you can:

- Access the current partition balancing scheme by entering **PRTY** or **PRTY S** from the **BIM-FAQS/ASO** command line. For **ESA 2** and above, you can also enter **ASO** or **ASO S**.
- Place your cursor on the *P* in **PRTY**
- Press a PF key defined as **CURSOR** (or type **CURSOR** on the **BIM-FAQS/ASO** command line, position the cursor at the "P" in **PRTY** and press **ENTER**)
- Make any changes in the balancing scheme
- Press **ENTER** again to send the changes to the console

The new partition balancing scheme you specified with **CURSOR** will be entered as data for the **PRTY** command, and the new partition balancing scheme will appear on the console.

We will demonstrate this procedure in the following section.

## Procedure

To change partition priorities, take the following steps:

Step	Action
1	From a console display, enter <b>PRTY S</b> . (or ASO S for ESA 2 and above) A panel like the following appears: <div data-bbox="376 567 1250 1031" style="border: 1px solid black; padding: 10px; margin: 10px 0;"><pre>GFF313 CLOG  ENABLED GFF313 AR    ENABLED GFF313 SMSG  ENABLED GFF327 LAST EXEC SERVICED: \$PWRPRNT  STATUS: FREE GFF328 EXEC: \$PWRPRNT -&gt; WAIT      STATUS: WTIM R9=00761420, R13=0076DA90 PRTY Y=W=P=C=Z=BG=FB=FA=F9=F8=F7=F6=F5=F4=F2=F3 ,F1  ENTER BIM-FAQS/ASO COMMAND      (OPERATOR)                (SCROLL)  20:46:17</pre></div>
2	Find the PRTY statement. Place your cursor on the <i>P</i> in PRTY.
3	Press PF13. PF13 is defined as CURSOR in your security definition. The line with the PRTY statement becomes a temporary command line just like the BIM-FAQS/ASO command line.
4	Change the priority of a partition you select by making the change directly on the new command line. Use the example provided on the previous page, or create your own example. Clear the timestamp from the end of line.
5	Press ENTER. Your new partition balancing scheme will appear on the system console.
6	Repeat Steps 1-5 and return your partition balancing to its original state.

## Conclusion

In this section, you used the CURSOR command to open a temporary command line and change a VSE machine's partition balancing scheme.

In the next section, you will use the CURSOR MSG command to display a message explanation directly from the console display.

## Task II: Displaying Message Explanations

You can use the `CURSOR MSG` command to easily access message explanations. `CURSOR MSG` is a variation on the `CURSOR` command. It, too, opens a temporary command line on the console display.

You can use `CURSOR MSG` to access any message in the BIM-FAQS/ASO message file or the IBM message file *IESMSG*S. Also, the `CURSOR MSG` command is very useful when you want to display message text for a message that currently appears on your console display.

In the following procedure, we'll display a message explanation for the 0V16I message using the `CURSOR MSG` command. You should select your own message for this demonstration.

There's nothing special about `CURSOR MSG`. Any command prefixed with `CURSOR` can be used to open a temporary command line anywhere on the BIM-FAQS/ASO console-related displays.

### EXPLAIN on ESA 2.1

With VSE/ESA 2.1, BIM-FAQS/ASO uses the IBM messages file (instead of `FAQMSG`) to view online message explanations.

### IESMSG

You must have the IBM messages file *IESMSG*S defined to display an IBM message from BIM-FAQS/ASO. We'll be using an IBM message in our example.

**Procedure**

To display message explanations, take the following steps:

Step	Action
1	Select a message on the system console. We've selected 0V16I. You may need to page backward on the log (enter <b>D L</b> ) to find a suitable message.
2	Place the cursor on the first letter/number of the message. In our example, place the cursor on the <i>0</i> in 0V16I.
3	Press PF14. PF14 is defined as CURSOR MSG in your security definition. A panel like the following is displayed. Notice that a temporary command line has opened at the line beginning with <i>BG&gt;MSG</i> :

```

T1 0076 This is the start of job number 11 since 13 Jul 1997 06:07:3513:55:52
BG 0000 EOJ DATASTAT 13:55:52
      DATE 07/13/97,CLOCK 13/55/52,DURATION 00/00/00 13:55:52
T1 0076 It's just gone five to two. 13:55:52
BG 0001 1Q34I BG WAITING FOR WORK 13:55:52
F1 0001 1Q34I LST WAITING FOR WORK ON FEE 13:55:52
U1 0082 looking for aux member EVT:00000074.THU 13:56:16
T1 0046 GJJ842W EVENT DATASTAT IS LATE 13:56:34
T1 0046 GJJ209I FOLLOWING EVENT COMMANDS BEING SCHEDULED: 13:56:35
T1 0046 DATASTAT DATASTAT 13:56:35
BG> MSG 0V16I JOB JCLEVENT CANCELED. REQUEST FROM VSE/POWER 13:56:53
BG 0000 // JOB DATASTAT 13:56:35
      DATE 07/13/97,CLOCK 13/56/35 13:56:35
BG 0000 * LOCAL VAR1=&VAR1 13:56:35
BG 0000 * LOCAL VAR2=&VAR2 13:56:35
BG 0000 * GLOBL VAR3=C3 13:56:35
BG 0000 * GLOBL VAR4=D3 13:56:35
T1 0076 This is the start of job number 12 since 13 Jul 1997 06:07:3513:56:35
BG 0000 EOJ DATASTAT 13:56:35
      DATE 07/13/97,CLOCK 13/56/35,DURATION 00/00/00 13:56:35
*** MESSAGE REDISPLAY *** 07/13/97 13:55:52
ENTER BIM-FAQS/ASO COMMAND (OPERATOR) 6:35:46
D L
    
```

*Continued*

---

*Continued*

---

**Step**      **Action**

---

**4**            Press ENTER. An explanation of message 0V16I is displayed:

```
*** BIM-FAQS/ASO MESSAGE DISPLAY ***
0V16I      JOB name CANCELED. REQUEST FROM VSE/POWER

Explanation: Either a PFLUSH command was entered for the
applicable partition or POWER detected an error in the partition.

System Action: The indicated job is canceled.

Programmer Response: None.

Operator Response: None.

ENTER BIM-FAQS/ASO COMMAND                      13:28:02
MSG 0V16I
PF07=BACKWARD PF08=FORWARD
```

---

**5**            To return to the console display, overtype the MSG command and enter **D E**.

---

## Conclusion

In this section you learned how to use PF keys to execute the CURSOR and CURSOR MSG commands.

In the next chapter, you will learn more about crucial BIM-FAQS/ASO automation features.

## Summary

### What You Did

In this chapter, you learned how to:

- Create a security definition
- Display the system console using the following commands:

**D C**

**D S,W**

**D S,J**

- Tailor the console display
- Display POWER queue information
- Use the CURSOR command

### On Your Own

Try some or all of the additional BIM-FAQS/ASO online commands from the

- BIM-FAQS/ASO command line
- BIM-FAQS/ASO Online menu system

Trial users may want to use the menu system to execute online commands. Enter **MENU** from the BIM-FAQS/ASO command line in a console display to access menus for all of the commands listed above. Be sure to take advantage of the online help available from every menu panel by pressing PF01 (Help).

---

## Additional Commands

Also, you can use the following commands to access important system and job information from BIM-FAQS/ASO. Enter **HELP** from the BIM-FAQS/ASO command line to see a complete list of the commands available from BIM-FAQS/ASO Online.

Enter	To Access
DEBUG	A report of all tasks active in the system. The report provides easy access to all the major partition- and task-related control blocks to assist in problem determination
DISPLAY	Virtual storage. With proper authorization, you can alter storage by overtyping current hexadecimal data.
LISTIO	List of logical unit assignments. Can be specific partition, device, or logical unit assignments or specific system or programmer logical unit assignments.
LSERV	List of partition and system standard labels in DLBL/EXTENT format.
LVTOC	Online VTOC (Volume Table of Contents). Sort by device address or a VOLID (that is, by starting extent address). LVTOC displays <b>**FREE SPACE**</b> to denote volume free space.
MAP GETVIS	Real-time snapshot of the current GETVIS and problem program area for each partition.

## What's Next

In the following chapters, you will be introduced to the BIM-FAQS/ASO automated operations features.



# Chapter 4

## Managing Messages and PF Keys

---

This chapter shows you how to manage your console messages and PF keys automatically with BIM-FAQS/ASO.

### In This Chapter

#### Introduction

With BIM-FAQS/ASO, you can automatically manage console messages. For example, you can direct BIM-FAQS/ASO to suppress nuisance messages, or you can direct BIM-FAQS/ASO to automatically reply to any message which requires a reply.

#### What You'll Learn

In this chapter, you will learn to

- Create your own initialization files
- Tailor an action file
- Edit an action
- Reply to a message
- Mask a message
- Define system console PF keys
- Define console commands

## Topics

This chapter covers the following topics:

- Managing actions and action files
- Creating your own initialization files
- Tailoring an action file
- Editing an existing action
- Creating an action
- Replying to a message
- Creating a sample jobstream
- Creating an automated message reply
- Masking messages
- Creating a password mask
- Defining system console PF keys
- Defining console commands

# Managing Actions and Action Files

## Task Overview

This section will show you how to create your own action file and edit a sample action. You will also rename the default console command and PF-key files.

## Definitions

An *action* is an automated procedure you can create by using an action definition panel. You can access an action definition panel from the Console Action File Directory List.

For example, you could create an action specifying that BIM-FAQS/ASO should hold and highlight a particular message on the system console. BIM-FAQS/ASO would automatically intercept the specified message, highlight it, and hold it on the console.

An *action file* is a file containing all your user-defined actions. The Console Action File Directory List displays all the action files you have defined. You will access this panel in the procedures that follow.

## Tasks

In this section, you will perform the following tasks:

Task	Action
I	Create your own initialization files
II	Tailor an action file
III	Edit an existing action
IV	Create an action

## Task I: Creating Your Own Initialization Files

All the default initialization files installed with BIM-FAQS/ASO are named *FAQSASO*. Since each installation will overlay the FAQSASO files, you should rename these files to have your own set of initialization files.

### Procedure

To create your own initialization files, take the following steps:

Step	Action
1	<p>From the BIM-FAQS/ASO command line, enter <b>AO</b>. The BIM-FAQS/ASO Main Menu is displayed.</p> <p><b>Note:</b> To enter AO, you must have authority defined in your BIM-FAQS/ASO security profile to allow access to the AO menu panels.</p>

```

FAOMENU0.*      ** BIM-FAQS/ASO Online V5.1A **          ID=VSE.MKJ
===>

          *** BIM-FAQS/ASO -- Main Menu ***
I      Initialization and Configuration

R      REXX      - REXX IMOD member/directory Maintenance
D      LOCK      - Online Lock file display
S      SYSOUT    - Sysout member/directory Maintenance
L      GSFAQSHC  - Online Job Generation for Hardcopy File Maintenance

          GSS Utilities
V      MSHP      - Online MSHP History Display, File: IJSYSHF
U      BIM$PUTL  - Online Job Generation for Partitioned Data Sets
A      PDS       - Display Partitioned Data Set Statistics

PF01=Help PF03=Return PF12=Exit
    
```

*Continued*

*Continued*

Step	Action
2	From the BIM-FAQS/ASO Main Menu, enter <b>I</b> . This takes you to the Initialization and Configuration menu:

```

FAOMENU.I      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====>

          ** BIM-FAQS/ASO -- Initialization and Configuration

G      GSFAQS Startup Definitions
P      Console PFKEY Definitions
M      Message Definitions
C      Command Definitions

R      REXX IMOD Initialization and Tailoring
E      Event Definitions
O      BIM-FAQS Online Command Definition and Maintenance
A      BIM-CPR (CICS Auto Print) Initialization
B      BIM-FAQS/CALL Definition and Maintenance

PF01=Help PF03=Return PF12=Exit
    
```

3	From the Initialization and Configuration menu, enter <b>G</b> . The GSFAQS Startup File Directory List is displayed:
---	---

```

FAOME2UG.2    ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====>
** BIM-FAQS/ASO -- GSFAQS Startup File Dir List **      Key ==> *      <==

STARTUP FILE   RECORDS   UPDATE TIMESTAMP   LOAD TIMESTAMP
_ FAQSASO           19    09/24/97 14.45.18   11/25/97 08.31.43

X=Edit L=Delete R=Rename C=Copy

PF1=Help PF3=Return PF4=Refresh PF5=Add
    
```

*Continued*

Continued

- | Step | Action   |
|------|--|
| 4    | Enter <b>X</b> in the input field to the left of FAQSASO (FAQSASO1 if pre-VSE/ESA version 2). The Online GSFAQS Startup Definition panel is displayed: |

```

FAOME2UG.F      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====
** BIM-FAQS/ASO -- GSFAQS Startup Definition **      FILE ==> FAQSASO <==
Enable AR Hook      ( X )      Auto pause on abend      ( _ )
Enable SMSG Hook    ( X )
Allow SMSG OP commands ( X )
Enable Console Management ( X )
Automation buffers (0-999) ( 20 )
                                Edit Dir
Pfkey file ==> FAQSASO <=== ( _ )( _ )
Message file ==> FAQSASO <=== ( _ )( _ )
Command file ==> FAQSASO <=== ( _ )( _ )

Eoj Console Summary BG F1 F2 F3 F4 F5 F6 F7 F8 F9 FA FB AR
                   X X X X X X X X X X X X X X X X
                   C D E G H I J K L M N O P Q R S T U V W X Y Z
                   X X X X X X X X X X X X X X X X X X X
Place (X) all jobs (L) option log (A) for abend jobs
Sysout Archival   BG F1 F2 F3 F4 F5 F6 F7 F8 F9 FA FB AR
                   X X X X X X X X X X X X X X X X
                   C D E G H I J K L M N O P Q R S T U V W X Y Z
                   X X X X X X X X X X X X X X X X X X X
Place (X) all jobs (L) option log (A) for abend jobs
PF1=Field Help PF3=Return PF5=Update PF8=Forward
    
```

- |   |   |
|---|---|
| 5 | Tab to the Dir input field for the FAQSASO PF-key file. Type <b>X</b> in the field and press ENTER. This takes you to the Console PFKEY Directory List: |
|---|---|

```

FAOMENUP.P      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====
** BIM-FAQS/ASO -- Cnsl PFKEY Directory List **      Key ==> *      <==

MEMBER NAME      UPDATE TIMESTAMP      LOAD TIMESTAMP
_ FAQSASO        07/11/97 15.07.43      11/25/97 08.31.43

X=Edit L=Delete R=Rename C=Copy

PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def
    
```

- |   |   |
|---|---|
| 6 | Enter <b>C</b> in the input field to the left of FAQSASO. Type the new filename (we will use TECHVSE), press Erase EOF, and then press ENTER. |
|---|---|

Continued

*Continued*

Step	Action
7	Press PF4 (Refresh) to refresh the display. You should see a display like the following:

```

FAOMENUP.P      ** BIM-FAQS/ASO Online V5.1x  **      ID=TECHVSE.SJA
===>
      ** BIM-FAQS/ASO -- Cnsl PFKEY Directory List **      Key ==> *      <==

MEMBER NAME      UPDATE TIMESTAMP      LOAD TIMESTAMP
_  FAQSASO        07/11/97 15.07.43      11/25/97 08.31.43
_  TECHVSE        11/11/97 12.01.10      00/00/00 00.00.00

X=Edit L=Delete R=Rename C=Copy
PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def
    
```

8	Repeat steps 5-7 for the FAQSASO message and command files.
9	Now you are back at the Online GSFAQS Startup Definition panel for the FAQSASO file. From this panel, overtype the PF-key, message, and command filenames with TECHVSE.

*Continued*

*Continued*

Step	Action
10	Overtyping FAQSASO in the FILE==> field with TECHVSE. The resulting panel looks like the following:

```

FAOME2UG.F          ** BIM-FAQS/ASO Online V5.1x **          ID=TECHVSE.SJA
====
** BIM-FAQS/ASO -- GSFAQS Startup Definition **          FILE ==> TECHVSE <==
Enable AR Hook      ( X )          Auto pause on abend      ( _ )
Enable SMSG Hook    ( X )
Allow SMSG OP commands ( X )
Enable Console Management ( X )
Automation buffers (0-999) ( 20 )
                                Edit Dir
Pfkey file ==> TECHVSE <=== ( _ )( _ )
Message file ==> TECHVSE <=== ( _ )( _ )
Command file ==> TECHVSE <=== ( _ )( _ )

Eoj Console Summary BG F1 F2 F3 F4 F5 F6 F7 F8 F9 FA FB AR
                   X X X X X X X X X X X X X X X X
                   C D E G H I J K L M N O P Q R S T U V W X Y Z
                   X X X X X X X X X X X X X X X X X X X X
Place (X) all jobs (L) option log (A) for abend jobs
Sysout Archival    BG F1 F2 F3 F4 F5 F6 F7 F8 F9 FA FB AR
                   X X X X X X X X X X X X X X X X
                   C D E G H I J K L M N O P Q R S T U V W X Y Z
                   X X X X X X X X X X X X X X X X X X X X
Place (X) all jobs (L) option log (A) for abend jobs
PF1=Field Help PF3=Return PF5=Update PF8=Forward
    
```

11	Press PF5 (Update) to update your changes.
12	Press PF3 (Return) to return to the Initialization and Configuration menu.

**Conclusion**

Now that you have created your own initialization files, you are ready to tailor an action file.

## Task II: Tailoring an Action File

The message file you just renamed contains a set of *actions*. From now on, we will refer to this file as an *action file*. In the procedure below, we will have you access the action file you copied in the previous task and tailor it by deleting an action.

### Procedure

To tailor an action file, take the following steps:

Step	Action
1	From the Initialization and Configuration menu, enter <b>M</b> . This takes you to the Console Action File Directory List:

```
FAOMENUM.M      ** BIM-FAQS/ASO Online V5.0A **      ID=TECHVSE.SJA
===>
** FAQS/ASO  --  Console Action File Directory List **      Key ==> *      <==
ACTION FILE      RECORDS  UPDATE TIMESTAMP      LOAD TIMESTAMP
_ FAQSASO        14      02/16/97 13.28.55      02/16/97 13.08.10
_ TECHVSE        14      02/18/97 09.05.21      02/18/97 09.05.21

X=Edit L=Delete R=Rename C=Copy A=Add P=Print
PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current Def
```

*Continued*

*Continued*

Step	Action
2	Type <b>X</b> in the input field to the left of TECHVSE and press ENTER. The Console Action Directory List is displayed:

```

FAOMENUM.F          ** BIM-FAQS/ASO Online V5.1x **          ID=TECHVSE.SJA
===>
** BIM-FAQS/ASO -- Console Action Directory List **  FILE ==> TECHVSE  <==
                                                    Key ==> *          <=

Action Name      Function:
- EOJ             High,IMOD M=(EOJ)
- HIIBM          High M=(0<==<)
- JOB            High,IMOD M=(// JOB)
- LIBR-SHAREDV   Reply M=(L2828)
- POWERFORMS     High,CMD M=(1Q40A)
- PW=            Mask M=(PW=)
- REPLYDEL       Reply M=(4444D) M2^(PROD)
- SUPPRESS       Supp M=(1I40I)
- SYSOUTMSG      IMOD M=(GFF390)
- SYSOUTMSG2     CMD M=(GFF390) M2=(09=)
- VTAM IST105I   IMOD M=(IST105I)
- VTAM 5B05I     IMOD M=(5B05I)
- 1S78I          IMOD M=(1S78I)

X=Edit L=Delete A=add

PF1=Help PF3=Return PF4=Refresh PF5=PRINT PF6=Load File
    
```

3	Tab to the input field to the left of LIBR-SHAREDV. Type <b>L</b> and press ENTER to delete this action. LIBR-SHAREDV is only a simulated reply to a message; it does no real work for your system. (Feel free to enter <b>X</b> and browse through the action before you delete it!)
4	Press PF4 (Refresh) to refresh the display. Notice that LIBR-SHAREDV is no longer listed in the action list.
5	Press PF6 (Load File) to load TECHVSE into the SVA. This makes TECHVSE the current action file.

### Conclusion

You have now created your own action file. Now you are ready to edit an action from your action file.

### Task III: Editing an Existing Action

The EOJ action is designed to highlight and trigger the \$EOJ IMOD. This IMOD was loaded into your system when you installed BIM-FAQS/ASO. Every time a job goes to EOJ, the \$EOJ IMOD echoes the time. The EOJ action highlights the EOJ *jobname* MAX RETURN CODE=xxxx message written to the system console. So instead of getting just the EOJ message, you also receive a timestamp written to the console if the EOJ action is enabled.

For your trial, we will have you disable executing this IMOD. Don't worry about changing the action. It's easy to restore the action to its original specifications.

#### Procedure

To edit the EOJ action, take the following steps:

Step	Action
1	From the Console Action Directory List, enter <b>X</b> in the input field next to EOJ. The following panel is displayed:

```

FAOMENUM.M      ** BIM-FAQS/ASO Online V5.1x  **      ID=TECHVSE.SJA
====>
                                                    File: TECHVSE

Action Name ==> EOJ
Message = ==> EOJ
Message2 = ==>
Occurrences ==> *
Frequency ==> ( 00 : 00 : 00 )
Time Range ==> ( 00 : 00 , 24 : 00 )
Pid =
- ACTION Enabled
Highlight ( X )
Hold ( )
Unhold ( )
Suppress ( )
Delete ( )
- REXX IMOD ( X ) ==> $EOJ
- Reply ( ) ==>
- Command ( ) ==>
- Mask ( ) Mask= Length= Offset=
- Notify ( ) Type= User= Node= RSCS=

Scan ( 01 , 01 )      MTWRFSS
Scan ( , )
Phase ==>
Jobname ==>
CPUID ==> *
Disable Generics ( _ )
Simulate Action ( _ )
Stop After Match ( _ )
Old Style Args ( _ )
Command Delay ( 00 : 00 ) MM:SS

PF1=Field Help PF3=Return PF4=MSG exp PF5=Save PF6=Easy Scan PF9=MSG lookup

```

*Continued*

*Continued*

---

Step	Action
2	Delete the <b>X</b> in the REXX IMOD field and delete \$EOJ. This means that when EOJ appears on the console, the \$EOJ IMOD will <i>not</i> trigger.
3	Press PF5 (Save) to save the updated file.
4	Press PF3 (Return) to return to the Console Action Directory List.
5	Repeat steps 1-3 to disable the JOB action. The JOB action runs an IMOD, \$JOB. \$JOB is a sample of using REXX global variables.
6	Press PF6 (Load File) to load TECHVSE into the SVA. Make this updated file the current action file so that the EOJ action will be disabled.

---

### Conclusion

In this section, you learned how to edit an existing action. In the next section, you will learn how to use BIM-FAQS/ASO to reply to messages automatically.

### Task IV: Creating an Action

In Chapter 3, "Using BIM-FAQS/ASO Online," you tailored your console display to change the colors of various messages. In this section, you will learn how to create an action to highlight and hold the 0S and 0V messages you tailored.

#### Pre-ESA 2.1

The method of creating an action described in this section will work for BIM-FAQS/ASO installed on an ESA 2.1 system. However, ESA 2.1 users should use console filtering instead to create actions, because doing so involves less overhead. For an example of how to perform console filtering, see Chapter 6, "Console Filtering."

#### Procedure

You should be looking at the Console Action Directory List after loading TECHVSE into the SVA. Take the following steps to create your own action:

Step	Action
1	In the input field next to EOJ, enter <b>A</b> to add a new action. The following panel is displayed:

```

FAOMENUM.A      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====>
                                                    File: TECHVSE
Action Name ==>
Message = ==>
Message2 = ==>
Occurrences ==>
Frequency ==> ( : : )
Time Range ==> ( : , : )
Pid
- ACTION Enabled
Highlight ( )
Hold ( )
Unhold ( )
Suppress ( )
Delete ( )
- REXX IMOD ( ) ==>
- Reply ( ) ==>
- Command ( ) ==>
- Mask ( ) Mask= Length= Offset=
- Notify ( ) Type= User= Node= RSCS=

Scan ( , ) MTWRFSS
Scan ( , )
Phase ==>
Jobname ==>
CPUID ==> *
Disable Generics ( )
Simulate Action ( )
Stop After Match ( )
Old Style Args ( _ )
Command Delay ( : ) MM:SS

PF1=Field Help PF3=Return PF4=MSG exp PF5=Save PF6=Easy Scan PF9=MSG lookup

```

*Continued*

*Continued*

Step	Action
2	<p>Enter the following:</p> <ul style="list-style-type: none"> <li>• <b>OSMSG</b> in the Action Name ==&gt; field</li> <li>• <b>ABEND messages</b> in the description field across from the Action Name ==&gt; field</li> <li>• <b>OS==&lt;</b> in the Message ==&gt; field</li> <li>• <b>X</b> in the Highlight Enabled field</li> <li>• <b>X</b> in the Hold Enabled field</li> </ul>

Your display should look like the following:

```

FAOMENUM.3      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====>
                                           File: TECHVSE

Action Name ==> OSMSG      ABEND messages_____
Message = ==> OS==<      Scan ( 01 , 01 )      MTWRFSS
Message2 = ==>           Scan (      ,      )
Occurrences ==>           Phase ==>
Frequency ==> ( : : )      Jobname ==>
Time Range ==> ( : , : )  CPUID ==> *
- Pid
ACTION Enabled
Highlight ( X )           Disable Generics ( )
Hold ( X )               Simulate Action ( )
Unhold ( )               Stop After Match ( )
Suppress ( )             Old Style Args ( _ )
Delete ( )               Command Delay ( : ) MM:SS
- REXX IMOD ( ) ==>
- Reply ( ) ==>
- Command ( ) ==>
- Mask ( ) Mask=         Length=         Offset=
- Notify ( ) Type=       User=         Node=         RSCS=

PF1=Field Help PF3=Return PF4=MSG exp PF5=Save PF6=Easy Scan PF9=MSG lookup
    
```

- 3 Press PF5 (Save) to save the new action, OSMSG. You will see the following message:  
**GAO664 ACTION OSMSG ADDED.**
- 4 Overtyp the action name OSMSG with **OVMSG**. Overtyp the message OS==< with:  
**OV==<**.
- 5 Press PF5 (Save) to save the new action, OVMSG. You will see the following message:  
**GAO664 ACTION OVMSG ADDED.**
- 6 Press PF4 (MSG exp) to see an English explanation for the new message actions.
- 7 Press PF3 (Return) to return to the Console Action Directory List.
- 8 Press PF6 (Load) to load the current message action file.
- 9 Press PF3 (Return) until you return to a console display. Watch the console for messages beginning with OS and OV. Notice the difference.

## Conclusion

Now that you have created your own actions, you are ready to create an action to reply to a message automatically.

## Replying to a Message

### Task Overview

We will develop a scenario in the procedures below to demonstrate the power of BIM-FAQS/ASO's automated message reply feature. The jobstream you will run generates a message which BIM-FAQS/ASO will reply to automatically.

### Tasks

In this section, you will perform the following tasks:

Task	Action
I	Create a sample jobstream
II	Create an automated message reply

## Task I: Creating a Sample Jobstream

You can use BIM-FAQS/ASO to reply automatically to a console message. This feature can eliminate wasted time replying to nuisance messages, while ensuring that important messages get a timely reply.

### Sample Jobstream

Create the sample jobstream below:

```
* $$ JOB JNM=BIM$RXBA,CLASS=0,DISP=D,LDEST=( ,user)
* $$ LST CLASS=A
// JOB BIM$RXBA (user,ECHO=YES)
// EXEC BIM$RXBA
$READCON
/*
/&
* $$ EOJ BIM$RXBA
```

After we have shown you how to define an automated message reply action, you will be asked to submit this batch job and watch the console display.

### Conclusion

You created the sample jobstream above to run after you create an action to automatically reply to a message. You will learn how to create an automated message reply in the next section.

## Task II: Creating an Automated Message Reply

In the procedure below, you will create an action to reply automatically to the message produced by the jobstream created in the previous section.

### Procedure

You should now be looking at a console display. To create a sample automated message reply action, take the following steps:

Step	Action
1	From the current console, you can use fast-path commands to enter the AO menu system. Recall that, previously, you went from panel to panel entering single commands. To use a fast-path command, chain together the panel options with periods.  Now enter the fast-path command, <b>AO I.M</b> , to access the Console Action File Directory List.
2	From the Console Action File Directory List, enter <b>X</b> next to TECHVSE (or whatever filename is shown). The Console Action Directory List is displayed.
3	Enter <b>A</b> in the input field next to EOJ to add a new action. A blank action definition panel is displayed.

*Continued*

*Continued*

Step	Action
4	<p>Enter:</p> <ul style="list-style-type: none"> <li>• <b>TEST</b> in the <i>Action Name</i> ==&gt; field.</li> <li>• <b>Enter</b> in the <i>Message</i> ==&gt; field. This field is case-sensitive.</li> <li>• <b>data</b>, in the <i>Message2</i> ==&gt; field. This field is case-sensitive.</li> <li>• <b>01 , 01</b> in the <i>Scan</i> field.</li> <li>• <b>12 , 01</b> in the <i>Scan</i> field.</li> <li>• <b>X</b> in the <i>Reply Enabled</i> field.</li> <li>• <b>ANYDATA</b> in the input field to the right of <i>Reply</i>.</li> </ul>

Note: If you are running CICS and you have uppercase translation turned on, CICS will force all of this data into uppercase.

Your panel should look like the following:

```

FAOMENUM.3      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====>
                                           File: TECHVSE
Action Name ==> TEST          test console message actions_____
Message = ==> Enter          Lowercase Scan ( 01 , 01 )      MTWRFSS
Message2 = ==> data,        Lowercase Scan ( 12 , 01 )
Occurrences ==>                Phase ==>
Frequency ==> ( 00 : 00 : 00 )   Jobname ==>
Time Range ==> ( 00 : 00 , 00 : 00 ) CPUID ==> *
  _ Pid =

ACTION Enabled
Highlight ( )          Disable Generics ( _ )
Hold ( )              Simulate Action ( _ )
Unhold ( )            Stop After Match ( _ )
Suppress ( )          Old Style Args ( _ )
Delete ( )            Command Delay ( 00 : 00 ) MM:SS
_ REXX IMOD ( ) ==>
_ Reply ( X ) ==> ANYDATA
_ Command ( ) ==>
_ Mask ( ) Mask=      Length=      Offset=
_ Notify ( ) Type=    User=         Node=          RSCS=

PF1=Field Help PF3=Return PF4=MSG exp PF5=Save PF6=Easy Scan PF9=MSG lookup

```

5	Press PF5 (Save) to save your new action.
6	Press PF3 (Return) to return to the Console Action Directory List for TECHVSE.
7	Press PF6 (Load File) to reload TECHVSE into the SVA with the new action.

*Continued*

*Continued*

Step	Action
8	Submit the jobstream in the previous task to your VSE machine and watch the console display. When the BIMSXRBA job has reached EOJ, enter the command, D L,BG on the BIM-FAQS/ASO console to see the following display:

```

Z3 0090 GFX405I ASOMAINT SESSION TERMINATED                12:05:51
Z3 0090 GFX404I ASOMAINT SESSION ESTABLISHED                12:05:56
Z3 0090 GFX405I ASOMAINT SESSION TERMINATED                12:06:01
Z3 0090 GFX404I ASOMAINT SESSION ESTABLISHED                12:06:07
Z3 0094 GAO648I ACTION FILE FAQSASO LOADED                 12:21:44
F1 0001 1RB5I  JOB MKJ-JOB 23757(24211) RECEIVED FROM BIM FOR P390 J-RV1
F5 0001 1Q47I  F5 MKJ-JOB 23757 FROM BIM(MKJ) , TIME=12:28:34 12:28:34
F5 0005 // JOB BIMSXRBA                                     12:28:34
          DATE 12/22/97,CLOCK 12/28/34                      12:28:34
Z1 0086 MKJ-JOB                                           12:28:34
Z1 0086 This is the start of job number 20 since 22 Dec 1997 07:42:08 12:28:34
F5 0005 READCONS - Monday - 22 Dec 1997 - 12:28:37        12:28:37
F5-0005 Enter some data, it will be echoed to the console  12:28:37
0005 ANYDATA                                              12:28:37
F5 0005 Data entered was - ANYDATA                        12:28:37
F5 0005 EOJ BIMSXRBA  MAX.RETURN CODE=0000                12:28:38
          DATE 12/22/97,CLOCK 12/28/38,DURATION 00/00/04  12:28:38
F5 0001 1Q34I  F5 WAITING FOR WORK                       12:28:39
Z1 0086 It's almost half past twelve.                     12:28:39
F1 0001 1RA0I  OUTPUT MKJ-JOB 23757(24211) TRANSMITTED TO BIM FOR BIM O-TR1
*** MESSAGE REDISPLAY *** 12/22/97 12:05:51
ENTER BIM-FAQS/ASO COMMAND (OPERATOR) (SCROLL) 12:28:46
D L
```

Notice on the above screen that BIM-FAQS/ASO has automatically issued the reply, *000 ANYDATA* in response to the 'Enter some data ...' line.

---

### Conclusion

In this section, you learned how to create an action to reply automatically to a message. In the next section, we will discuss an action to mask messages that you will use in Chapter 5, “Creating and Executing IMODs.”

# Masking Messages

## Task Overview

With BIM-FAQS/ASO, you can create an action to automatically mask a message. Message masking defines a message type to be masked permanently on the console display and the hardcopy file.

The action file you just created contains an action to permanently mask any PW= password messages. BIM-FAQS/ASO will intercept the password and mask the actual password with the @ sign.

## Task

In this section, you will display and examine an action to mask a password. This feature will be used in a later demonstration.

## Displaying a Password Mask Action

### Introduction

Password security is a constant concern for any data processing site. To prevent the inadvertent display of a sensitive password, you can use BIM-FAQS/ASO to automatically mask any message with a PW= prefix.

When you created your own action file, TECHVSE, you also copied an action called PW=. You will use this action in Chapter 5, "Creating and Executing IMODs." For now, we will show it to you and explain its fields.

**Procedure**

To display the PW= action, take the following steps:

Step	Action
1	<p>From the Console Action Directory List, enter <b>X</b> in the input field to the left of PW=. The action definition panel for PW= is displayed.</p> <p>Because of the generic character, =, used in the message PW=, you must select Disable Generics to ensure that BIM-FAQS/ASO will recognize the literal "PW=".</p>

```

FAOMENUM.3      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====>
                                           File: TECHVSE
Action Name ==> PW=          Suppress 8 chars after PW= on system con
Message      = ==> PW=          Scan ( 02 , 03 )          MTRWFSS
Message2     = ==>          Scan (      ,      )
Occurrences  ==>          Phase      ==>
Frequency    ==> ( 00 : 00 : 00 ) Jobname ==>
Time Range   ==> ( 00 : 00 , 00 : 00 ) CPUID ==> *
  _ Pid      =

ACTION      Enabled
Highlight   ( )          Disable Generics ( X )
Hold        ( )          Simulate Action ( _ )
Unhold      ( )          Stop After Match ( _ )
Suppress    ( )          Old Style Args ( _ )
Delete      ( )          Command Delay ( 00 : 00 ) MM:SS
_ REXX IMOD ( ) ==>
_ Reply      ( ) ==>
_ Command    ( ) ==>
_ Mask       ( X ) Mask= @      Length= 8      Offset= +3
_ Notify     ( ) Type=          User=          Node=          RSCS=

PF1=Field Help PF3=Return PF4=MSG exp PF5=Save PF6=Easy Scan PF9=MSG lookup
    
```

@ in the Mask= field is the character you want to use as a mask character. 8 in the Length= field is the number of characters you want to mask. +3 in the Offset= field is the number of characters to skip before masking begins.

2	Press PF3 (Return) to return to the Console Action Directory List for TECHVSE.
3	From the Console Action Directory List, press PF6 (Load File) to load the updated TECHVSE file into the SVA.
4	Press PF3 (Return) until you return to a console display.

**Conclusion**

Now that you have taken a look at the PW= action, you are ready to use this action to actually mask a password. You will do this in Chapter 5, "Creating and Executing IMODs." For now though, you will learn to define console PF keys in the next section.

# Defining System Console PF Keys

## Task Overview

### Pre-ESA 2.1 Only

You need to define console PF keys only for VSE/ESA systems prior to 2.1. In pre-ESA 2.1 versions of BIM-FAQS/ASO, console PF-key definitions are used to handle the real system console. Under ESA 2.1, console PF-key definitions are not supported because there is no longer a real system console.

### Introduction

You can use BIM-FAQS/ASO to define system console PF keys to issue operator replies and commands. For example, you can:

- Use commands as PF-key values
- Set a PF or PA key to recall previous commands
- Enter a maximum of 60 characters for each PF or PA key

These are just a few of the many options you have available to you to make console management easier and more efficient.

### Task

In this section, you will learn to tailor your system console PF keys.

## Tailoring System Console PF Keys

### Introduction

You will want to tailor to your own liking the PF keys you loaded by default into your security definition. Different users have different needs for PF- and PA-key definitions, so it is very helpful to have a product with the flexibility of BIM-FAQS/ASO to make managing PF- and PA-key assignments easy.

### Procedure

To tailor system console PF keys, take the following steps:

Step	Action
1	From the console display, enter the fast-path command, <b>AO I.P.</b> This takes you to the Console PFKEY Directory List:

```

FAOMENUP.*          ** BIM-FAQS/ASO Online V5.1x **          ID=TECHVSE.SJA
====>
      ** BIM-FAQS/ASO -- Cnsl PFKEY Directory List **      Key ==> *      <==

MEMBER NAME          UPDATE TIMESTAMP          LOAD TIMESTAMP
_ FAQSASO             01/20/97 16.13.08          01/21/97 18.48.54
_ TECHVSE             01/20/97 18.15.38          01/21/97 20.42.22

X=Edit L=Delete R=Rename C=Copy

PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def
    
```

2	Enter <b>X</b> in the input field to the left of TECHVSE.
---	---

*Continued*

*Continued*


---

Step	Action
3	We can not tell you what your needs are for PF- and PA-key assignments. However, here's a suggestion: Change one PF-key definition to @ IGNORE by overtyping the existing entry. For example, this will allow you to

- Enter a partition reply ID
- Press a PF key to have that partition ignore a request for a tape mount

We will redefine PF04.

```

FAOMENUP.F          ** BIM-FAQS/ASO Online V5.1x **          ID=VSE.SJA
===>
** BIM-FAQS/ASO -- System Cnsl PFKEY Alter **          Member ==> TECHVSE <==
PF key Variable = @          Description: FAQS/ASO Console PFKEY Member
Line End Char = #

PF01 = RECALL                      Delay Suffix
PF02 = PRTY REPLY @                ( ) ( X )
PF03 = PRTY MSG                    ( ) ( )
PF04 = @ IGNORE                    ( ) ( X )
PF05 = PRTY REPLY CANCEL           ( ) ( )
PF06 = PRTY J                      ( ) ( X )
PF07 = AO LOAD CMD @              ( ) ( X )
PF08 = AO LOAD MSG @              ( ) ( X )
PF09 = AO LOAD PFKEY @            ( ) ( X )
PF10 = AO LIST CMD                ( ) ( X )
PF11 = AO LIST MSG                ( ) ( X )
PF12 = AO LIST PFKEY              ( ) ( X )

PA01 = RECALL
PA02 = RECALL
PA03 = RECALL

PF01=Help PF03=Return PF05=Save PF06=Load PF08=FWD

```

---

4	Press PF05 (Save) to save your updates to TECHVSE.
5	Press PF06 (Load) to load your PF-key file into the SVA, making it the current PF-key file.
6	Find a suitable message on the console and try your new method of canceling a tape mount. Enter a partition reply ID on the command line and press PF04 (@ IGNORE).

---

## Conclusion

You have now created your own PF-key file, and used some sample PF-key definitions to tailor its PF-key assignments.

## Defining Console Commands

### Task Overview

You can define your own console commands using BIM-FAQS/ASO. This powerful BIM-FAQS/ASO feature allows you to create simple commands to replace potentially complicated command syntax. You can also give the command a name with far greater mnemonic value than the command it is supposed to replace.

### Task

In this section, you will define a console command called PRTY. You will use this console command in a demonstration in Chapter 5, “Creating and Executing IMODs.”

## Defining a Console Command, PRTY

In the procedure that follows, we will show you how to define a console command that you will use to trigger an IMOD in Chapter 5, “Creating and Executing IMODs.”

### Procedure

To define a console command, take the following steps:

Step	Action
1	From the console display, enter the fast-path command, <b>AO I.C.</b> This takes you to the Console Command File Directory List:

```

FAOMENUC.*      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====>
** BIM-FAQS/ASO -- Console Cmd File Directory List **  Key ==> *      <==

COMMAND FILE    RECORDS    UPDATE TIMESTAMP      LOAD TIMESTAMP
_  FAQSASO       50      02/08/97 10.39.20     02/24/97 17.52.14
_  TECHVSE       51      02/24/97 17.44.31     02/24/97 17.44.36

X=Edit L=Delete R=Rename C=Copy A=Add
PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def

```

*Continued*

*Continued*

- | Step | Action  |
|------|---|
| 2    | From the Console Command File Directory List, enter <b>X</b> in the input field to the left of TECHVSE. The Console Commands Directory List is displayed: |

```

FAOMENUC.F      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
===>
** BIM-FAQS/ASO -- Console Cmds Directory List **    FILE ==> TECHVSE <==
                                                    Key ==> *      <=

  Console Command LOG Function:  GOAL IMOD or Command
- $ARG           N IMOD=$ARG
- $BEEPER        N IMOD=$BEEPER
- $GETVIS        N IMOD=$GETVIS
- $JOBACCT       N IMOD=$JOBACCT
- $MSG           N IMOD=$MSG
- $REPLID        N IMOD=$REPLID
- $STATUS        N IMOD=$STATUS
- $VTAM          N IMOD=$VTAM
- >             N IMOD=$TO
- ADDRESS        N IMOD=$ADDRESS
- BEEPER         N IMOD=$BEEPASO
- BG            N IMOD=$REPLY
- CICS           N IMOD=$CICSREP
- CONSOLE        N IMOD=$CONSOLE
- CP             N IMOD=$CP
- CPR           N IMOD=$CPRCMD
X=Edit L=Delete A=Add

PF1=Help PF3=Return PF4=Refresh PF5=IMOD Menu PF6=Load PF8=Fwd
    
```

- |   |   |
|---|---|
| 3 | Enter <b>A</b> (Add) next to any filename. The Console Command Definition panel is displayed: |
|---|---|

```

FAOMENUC.M      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
===>
** BIM-FAQS/ASO -- Console Command Definition **    FILE ==> TECHVSE <==

New Command ==>                                <== Console command to intercept

                YES  NO
LOG Command ( ) ( )

                Run an REXX IMOD for the COMMAND
EDIT
- IMOD ==>          <==      REXX EXEC to Execute
  Args ==>          Old Style Args

                Replace COMMAND with the CMD below
==>                                                    <==

PF1=Help PF3=Return PF5=Save PF6=IMOD DIRECTORY
    
```

*Continued*

*Continued*

Step	Action
4	<p>Enter:</p> <ul style="list-style-type: none"> <li>• <b>PRTY</b> in the <i>COMMAND</i> ==&gt; field</li> <li>• <b>X</b> in the NO field for <i>LOG command</i></li> <li>• <b>\$PRTY</b> in the <i>IMOD</i> ==&gt; field</li> </ul> <p>Your panel should look like the following:</p> <pre> FAOMENUC.M      ** BIM-FAQS/ASO Online V5.1x  **      ID=TECHVSE.SJA ====&gt;       ** BIM-FAQS/ASO -- Console Command Definition **  FILE ==&gt; TECHVSE  &lt;==  New Command ==&gt; PRTY          &lt;== Console command to intercept                  YES  NO LOG Command  (   ) ( X )                  Run an REXX IMOD for the COMMAND EDIT _ IMOD ==&gt; \$PRTY  &lt;==      REXX EXEC to Execute   Args ==&gt;                Old Style Args                  Replace COMMAND with the CMD below ==&gt;                                     &lt;==  PF1=Help PF3=Return PF5=Save PF6=IMOD DIRECTORY </pre>
5	Press PF5 to save your work, and press PF3 to return to the Console Command File Directory list.
6	Press PF6 to load the file to load your command file into the SVA.
7	Press PF3 (Return) until you return to a console display.

## Conclusion

You just created your own console command called PRTY. You will use this command in the next chapter to trigger the \$PRTY IMOD and mask a password on the console.

## Summary

### What You Did

In this chapter, you

- Created a new action file
- Created an action
- Replied to a message automatically with an action
- Masked a message using an action
- Defined a system console PF key
- Defined a console command

### How This Topic Can Benefit You

With the automated message management procedures outlined in this chapter, you can ensure that system messages will be managed quickly and efficiently without the need for operator intervention.

### What's Next

In the next chapter you will display a sample IMOD and execute it. You will create your own IMOD and execute it, too.

# Chapter 5

## Creating and Executing IMODs

---

### In This Chapter

#### Introduction

This chapter contains a sample IMOD, instructions for executing that IMOD from BIM-FAQS/ASO, and instructions for creating and triggering an IMOD.

#### What You will Learn

In this chapter, you will learn to

- Display a sample IMOD, \$JOBACCT
- Trigger \$JOBACCT from an online command
- Trigger \$JOBACCT from a console command
- Create your own IMOD
- Trigger your own IMOD from a PRTY command

#### Additional Considerations

While REXX is easy to use, programming in REXX requires a far better understanding of the REXX language than we can present here.

## Topics

This chapter discusses the following topics:

- What Is REXX?
- Displaying and executing a sample IMOD, \$JOBACCT:
  - Accessing \$JOBACCT
  - Examining \$JOBACCT
  - Executing \$JOBACCT from an online command
  - Executing \$JOBACCT from a console command
- Creating your own IMOD:
  - Creating your own IMOD, \$PRTY
  - Executing \$PRTY

## What Is REXX?

### Background: The REXX Language

REXX is a structured programming language that allows you to write programs easily and efficiently.

For an introduction to the REXX language, see M.F. Cowlishaw, *The REXX Language: A Practical Approach to Programming*, Second Edition (Prentice-Hall, 1990).

### BIM REXX

BIM REXX is BIM's implementation of the REXX language. BIM treats REXX as an OAL (Operations Automation Language). In other words, BIM's version of REXX is designed to help you automate your VSE data center quickly and efficiently.

For a complete discussion of BIM REXX, see the *BIM-GSS REXX User's Guide*.

### What's an IMOD?

IMOD is short for Intelligent Module. Here's the concept behind the IMOD: You can use BIM REXX to create a procedure which can execute automatically under conditions you specify. This kind of REXX procedure is an IMOD.

Various IMODs are shipped with the BIM-FAQS/ASO tape. Once you have initialized BIM-FAQS/ASO, you can execute any of these IMODs, or you can use the BIM-FAQS/ASO IMOD editing facility to create your own.

### Examples

For example, some of the IMODs shipped with BIM-FAQS/ASO are

- \$CP, which issues CP commands and returns the data back to the console
- \$CICSREP, which replies to CICS by partition or jobname
- \$CYCLE, which cycles terminals in CICS and VTAM
- \$GETVIS, which displays partition GETVIS-related information

## IMOD Programming Guidelines

The only restrictions or limits to creating or executing IMODs are the restrictions or limits imposed by the REXX language and BIM.

For the purposes of your trial, these are unimportant. However, if you desire more information about REXX programming guidelines or BIM's implementation of REXX, see the *BIM-GSS REXX User's Guide*.

# Displaying and Executing a Sample IMOD

## Task Overview

In this section, you will access and execute a sample IMOD, \$JOBACCT.

## Tasks

In this section, you will perform the following tasks:

Task	Action
I	Display the \$JOBACCT IMOD
II	Examine the \$JOBACCT IMOD
III	Execute the \$JOBACCT IMOD from an online command
IV	Execute the \$JOBACCT IMOD from a console command

## Task I: Displaying \$JOBACCT

You can access IMODs in the following two ways:

- From the BIM-FAQS/ASO command line, if you know the name of the IMOD you want to edit or execute
- From the REXX IMOD File Directory List

## Command-Line Access

From the BIM-FAQS/ASO command line, enter

```
.U=imodname.OAL PDS=MON
```

For example, to access an IMOD called \$JOBACCT, you'd enter

```
.U=$JOBACCT.OAL PDS=MON
```

BIM-FAQS/ASO IMODs have the .OAL file extension. OAL stands for *Operations Automation Language*. All BIM-FAQS/ASO IMODs are contained in the SYSSMON PDS.

## Menu Access

To access IMODs from the REXX IMOD File Directory List, follow these steps:

Step	Action
1	From the BIM-FAQS/ASO command line, enter <b>AO</b> . The BIM-FAQS/ASO Main Menu is displayed:

```

FAOMENU0.*          ** BIM-FAQS/ASO Online V5.1A **          ID=VSE.MKJ
===>

          *** BIM-FAQS/ASO -- Main Menu ***
I      Initialization and Configuration

R      REXX      - REXX IMOD member/directory Maintenance
D      LOCK      - Online Lock file display
S      SYSOUT    - Sysout member/directory Maintenance
L      GSFAQSHC - Online Job Generation for Hardcopy File Maintenance

          GSS Utilities
V      MSHP      - Online MSHP History Display, File: IJSYSHF
U      BIM$PUTL  - Online Job Generation for Partitioned Data Sets
A      PDS       - Display Partitioned Data Set Statistics

PF01=Help PF03=Return PF12=Exit
    
```

2	From the BIM-FAQS/ASO Main Menu, enter <b>R</b> to access a list of IMODs. The REXX IMOD File Directory List is displayed:
---	--

```

FAOMENUR.R          ** BIM-FAQS/ASO Online V5.1x **          ID=TECHVSE.SJA
===>
** BIM-FAQS/ASO -- REXX IMOD File Directory List **          Key ==> *          <==
                                                                PDS ==> MON          <==

IMOD NAME          RECORDS  UPDATE TIMESTAMP      COMPILE TIMESTAMP      Compiled
- $LVARGT           44      11/26/97 08.38.09      11/26/97 08.38.10      *
- $LVARSV           67      11/26/97 08.38.14      11/26/97 08.38.14      *
- $ADDRESS          26      11/19/97 15.44.40      11/19/97 15.44.40      *
- $ARG              47      11/19/97 15.44.21      11/19/97 15.44.22      *
- $BEEPASO          128     11/19/97 15.44.24      11/19/97 15.44.25      *
- $BEEPDPGT         244     11/19/97 15.44.30      11/19/97 15.44.31      *
- $BEEPDRR          59      11/19/97 15.44.26      11/19/97 15.44.27      *
- $BEEPDSK          238     11/19/97 15.44.28      11/19/97 15.44.29      *
- $BEEPDSK          10      11/19/97 09.53.46      11/19/97 09.53.46      *
- $BEEPDL           76      11/19/97 15.44.25      11/19/97 15.44.26      *
- $BEEPER           174     11/26/97 08.38.19      11/26/97 08.38.20      *
- $CALLTIM          242     11/19/97 15.44.32      11/19/97 15.44.32      *
- $CHKPDS           38      11/26/97 08.38.25      11/26/97 08.38.25      *
- $CICS             39      11/26/97 08.38.31      11/26/97 08.38.32      *
- $CICSREP          94      11/19/97 15.44.36      11/19/97 15.44.36      *
E=Execute X=Edit L=Delete R=Rename C=Copy P=Print

PF1=Help PF3=Return PF4=Refresh PF5=Add PF8=Fwd
    
```

*Continued*

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Step	Action
3	<p>Access an IMOD called \$JOBACCT. we will examine this IMOD in the next section. Since you know the name of the IMOD, you can either</p> <ul style="list-style-type: none"> <li>• Press PF8 (Fwd) to get to it</li> <li>• Enter \$JOBACCT in the KEY==&gt; field</li> </ul> <p><b>Note:</b> You can also use a wildcard character in the <i>KEY==&gt;</i> field. For example, the default display is <i>KEY==&gt;*</i>, so all the BIM-supplied IMODs are displayed. You can use the * wildcard character to selectively display a subset of all the IMODs from the REXX IMOD File Directory List.</p> <p>For example, if you knew that you wanted to edit an IMOD that contains <i>JOB</i> in the name, you could specify <b>*JOB*</b> in the <i>KEY==&gt;</i> field. This would display only the IMODs containing the three letters <i>JOB</i>.</p>
4	<p>Enter <b>X</b> in the input field ( <u>  </u> ) next to \$JOBACCT. The text of the IMOD is displayed. In the next section, we will discuss the text of this IMOD.</p>

**Conclusion**

Now that you have accessed the \$JOBACCT IMOD, let's examine it in more detail.

## Task II: Examining \$JOBACCT

### Explanation

Let's take a look at \$JOBACCT.

As with most IMODs, \$JOBACCT consists of a number of REXX instructions, all designed to make programming easier and less time-consuming. However, it also contains extensive comments detailing the environment-dependent command formats for executing the IMOD, as well as information about what each instruction does.

While adding comments to an IMOD is strictly optional, it is always good practice to include any information which a user may need to execute the IMOD.

The following sections explain the REXX instructions that make up \$JOBACCT, and discuss its command format.

```

=> MEM=$JOBACCT LINE=0
1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75...8
* * * B E G I N F I L E * * *
/*****/
/* $JOBACCT REXX PROCEDURE: CREATED 10/16/90 BY BOB SMITH */
/* updated 02/20/91 support new asoenv call */
/*
/* This IMOD is designed to issue and display job accounting info.
/* BIM-FAQS/ASO is shipped with a A/R command "$JOBACCT" in the
/* FAQSASO command file. To use this exec type $JOBACCT on the
/* system or in op mode from the online interface or issue an SMSG
/* from CMS to display the JOBACCT information from the target VSE.
/*
/* VSE
/* FORMAT: $JOBACCT pid
/*
/* CMS
/* FORMAT: SMSG machine ASO $JOBACCT pid
/* ASO machine JOBACCT pid
/*
/* machine is the VSE machine name
/* ASO is an identifier for BIM-FAQS/ASO to trigger
/* that an IMOD name is the next blank delimited
/* parm.

```

\$JOBACCT Text	Explanation
<p>VSE</p> <p>FORMAT: \$JOBACCT pid</p>	<p>Command format from BIM-FAQS/ASO online. Enter \$JOBACCT from the BIM-FAQS/ASO command line. If you do not specify a partition ID, information for all partitions is displayed.</p>
<p>CMS</p> <p>FORMAT: SMSG machine ASO \$JOBACCT pid  ASO machine JOBACCT  pid  etc.</p>	<p>Command format from CMS. See the supplied ASO EXEC. You may need prior authorization for SMSGs. If you do not specify a partition ID, information about all the partitions is displayed..</p>

The body of the IMOD contains the executable instructions.

As you go through this explanation, place your cursor on the first letter of each instruction being discussed, and press PF01 (Help). This takes you to the online help that is available for each REXX instruction.

```

/*****/ =====
arg pid /* get pid */ =====
pid = substr(strip(pid),1,2) /* parse partition id */ =====
say '$JOBACCT' '-' date(w) '-' date() '-' time() =====
say ' Job Phase Job Step Cpu SIO' =====
say ' Name Name Duration Duration Seconds Count' =====
=====
if pid~='' then do /* user specified a PID */ =====
    x=jobacct(pid) /* get JOBACCT for specified pid */ =====
    if rc=0 then do /* echo pid and jobacct */ =====
        y=pid
        say y x
        end
        /* else echo error */ =====
    else say 'JOBACCT failed rc=||rc 'pid=||pid =====
end /* end user specified pid */ =====
=====
else do /* user did not specify pid */ =====
    pid=pidlist('B') /* set possible pids */ =====
    j=length(pid)%2 /* calculate # of Pids in string */ =====
    do i = 0 to j-1 /* loop for number of pids-1 */ =====
        y=substr(pid,i*2+1,2) /* calculate index to pid string*/ =====
        x=jobacct(y) /* get JOBACCT for pid y */ =====
        if rc=0 then do /* echo pid and jobacct */ =====
            say y x
            end
            /* else echo error */ =====
        else say 'JOBACCT failed rc=||rc 'pid=||y =====
    end /* end user did not specify pid */ =====
end
exit
/*****/ =====

```

<b>\$JOBACCT Instruction</b>	<b>Function</b>
arg pid	Gets the partition ID (if any).
pid = substr(strip(pid),1,2)	Parses the partition ID
say ... say ... say ...	Set up column headings
if ... then ... else	Decides whether the user specified a partition ID and, if not, determines all possible partition IDs and information and displays them all.
exit	Exits all executable instructions

### Task III: Executing \$JOBACCT from an Online Command

You can create your own online command to execute any IMOD. In the procedure that follows, you will learn how to create an online command to execute \$JOBACCT.

Often, creating your own online command to execute an IMOD is much easier than entering **IMOD *imodname***, the standard command you would use to execute an IMOD online.

#### Procedure

To create an online command to execute \$JOBACCT, do the following:

Step	Action
1	From the BIM-FAQS/ASO command line, enter the fast-path command, <b>AO I.O</b> . This command takes you to the Online Command File Directory List:

```

FAOMENUO.O      ** BIM-FAQS/ASO Online V5.1x  **      ID=TECHVSE.SJA
===>
** BIM-FAQS/ASO -- Online Cmd File Directory List **      Key ==> *      <==

CPUID:          RECORDS  UPDATE TIMESTAMP      LOAD TIMESTAMP
_ *              9      10/30/97 13.05.15      11/25/97 08.34.43
_ TECHVSE        9      10/30/97 14.00.05      00/00/00 00.00.00

X=Edit L=Delete R=Rename C=Copy

PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def
    
```

2	Enter <b>X</b> in the input field to the left of TECHVSE, the online command file you created in Chapter 3, “Using BIM-FAQS/ASO Online.” The cursor tabs to the first input field for the first command in the TECHVSE file.
---	--

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Step	Action
3	Enter <b>A</b> in this input field. The following panel is displayed:

```

FAOMENUO.M      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====>
      ** BIM-FAQS/ASO -- Online Cmd Definition **      FILE ==> TECHVSE <==

New Command: ==>          <== Online command to intercept
Description: ==>          <==

Replacement Command to issue:

Display command and description in help screen          YES  NO
                                                         ( ) ( )

Allow arguments to be passed as variables to the new command ( ) ( )
Also pass COMMAND as the first variable                ( ) ( )

      (substitution occurs at '@' symbols)

PF1=Help PF3=Return PF5=Save
    
```

4	Enter <b>JOBACCT</b> in the <i>New Command:==&gt;</i> input field.
5	Enter <b>Display job statistics</b> in the <i>Description:==&gt;</i> input field.
6	Enter <b>IMOD \$JOBACCT</b> in the <i>Replacement command to issue:</i> field.
7	For <i>Display command and description in help screen</i> , select <b>YES</b> .
8	For <i>Allow arguments to be passed as variables to the new command</i> , select <b>NO</b> .

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*Continued*

Step	Action
9	For <i>Also pass COMMAND as the first variable</i> , select <b>NO</b> . Your panel should look like the following:

```

FAOMENUO.M      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
===>
      ** BIM-FAQS/ASO -- Online Cmd Definition **      FILE ==> TECHVSE <==

New Command: ==> JOBACCT      <== Online command to intercept
Description: ==> Display job statistics      <==

Replacement Command to issue:
imod $jobacct

Display command and description in help screen      YES  NO
                                                    ( x ) (  )

Allow arguments to be passed as variables to the new command (  ) ( x )
Also pass COMMAND as the first variable      (  ) ( x )

      (substitution occurs at '@' symbols)

PF1=Help PF3=Return PF5=Save
    
```

10	Press PF5 (Save) to save TECHVSE with the new online command, JOBACCT.
11	Press PF3 (Return) to return to the Online Commands Directory List for TECHVSE.
12	Press PF6 (Load) to load TECHVSE into the SVA. This makes TECHVSE the current online command file. You will see the following message: <b>GFT260I ONLINE COMMAND FILE TECHVSE LOADED</b>
13	Press PF3 (Return) to return to the console display.

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Step	Action
14	From the BIM-FAQS/ASO command line, enter <b>JOBACCT</b> to test your new command. You will see a panel like the following:

```

** BIM-GSS - BIM-FAQS/ASO IMOD Interface ** ID=TECHVSE.SJA
IMOD $JOBACCT
$JOBACCT - Friday - 28 Nov 1997 - 06:35:06
  Job      Phase      Job      Step      Cpu      SIO
  Name     Name     Duration Duration  Seconds  Count
F1 POWSTART IPWPOWER  70.03.03 22.02.59 1667.25 131643
F3 VTAMSTRT ISTINCVT  70.02.32 22.02.31  257.50  68548
Z3 JCLSCHED JCLSCHED  70.01.54 22.01.54  318.50 113624
Z2 FAQSIUX  FAQSIUX   70.02.03 22.02.03   60.72   192
Z1 FAQSMAIN FAQSMX    70.02.29 22.02.29  295.17 13321
BG NO NAME  NO NAME
F2 CICSICCF DFHSIP    70.02.25 22.01.49  435.57  7657
F4 VSE1CICS DFHSIP    69.44.29 21.44.21  243.41 11294
F5 NO NAME  NO NAME
F6 NO NAME  NO NAME
F7 NO NAME  NO NAME
F8 NO NAME  NO NAME
F9 NO NAME  NO NAME
FA NO NAME  NO NAME
FB NO NAME  NO NAME
C1 AXPL1    AXPL1     45.03.06 21.03.06   60.56   920
Y1 VSE1EDIT BIMEDIT   60.29.14 12.29.14  144.50  6472

PF01=Help PF03=Return PF07=Backward PF08=Forward

```

---

## Conclusion

Now that you have learned how to execute \$JOBACCT from an online command, you will learn how to execute \$JOBACCT from a console command.

## Task IV: Executing \$JOBACCT from a Console Command

Using BIM-FAQS/ASO, you can also create a console command to execute \$JOBACCT. BIM-FAQS/ASO not only provides you with the flexibility to create your own console commands, but it enables you to create a console command online, from a user-friendly screen.

### Procedure

To execute \$JOBACCT from a console command, take the following steps:

Step	Action
1	From the BIM-FAQS/ASO command line, enter the fast-path command, <b>AO I.C.</b> This command takes you to the Console Command File Directory List:

```

FAOMENUC.*      ** BIM-FAQS/ASO Online V5.1x  **      ID=TECHVSE.SJA
====>
** BIM-FAQS/ASO -- Console Cmd File Directory List **  Key ==> *      <==

COMMAND FILE    RECORDS  UPDATE TIMESTAMP    LOAD TIMESTAMP
_  FAQSASO       50      07/11/97 15.07.45   11/25/97 08.31.43
_  TECHVSE       50      07/11/97 15.17.20   11/20/97 09.11.14

X=Edit L=Delete R=Rename C=Copy A=Add

PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def
    
```

*Continued*

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- | Step | Action   |
|------|--|
| 2    | Enter <b>X</b> in the input field to the left of TECHVSE. This takes you to the Console Commands Directory List: |

```

FAOMENUC.F      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====>
** BIM-FAQS/ASO -- Console Cmds Directory List **    FILE ==> TECHVSE <==
                                                    Key ==> * <=

Console Command LOG Function:  IMOD or Command
_ $ARG                N IMOD=$ARG
_ $BEEPER             N IMOD=$BEEPER
_ $GETVIS             N IMOD=$GETVIS
_ $JOBACCT            N IMOD=$JOBACCT
_ $MSG                N IMOD=$MSG
_ $REPLID             N IMOD=$REPLID
_ $STATUS             N IMOD=$STATUS
_ $VTAM               N IMOD=$VTAM
_ ADDRESS             N IMOD=$ADDRESS
X=Edit L=Delete A=Add

PF1=Help PF3=Return PF4=Refresh PF5=IMOD Menu PF6=Load PF8=Fwd
    
```

- |   |  |
|---|--|
| 3 | \$JOBACCT already exists as a console command in the TECHVSE console command file. Enter <b>X</b> in the input field to the left of \$JOBACCT. The Console Command Definition panel for \$JOBACCT is displayed. This panel defines the console command \$JOBACCT, which runs the \$JOBACCT IMOD. |
|---|--|

```

FAOMENUC.M      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====>
** BIM-FAQS/ASO -- Console Command Definition **    FILE ==> TECHVSE <==

New Command ==> $JOBACCT <== Console command to intercept

                YES  NO
LOG Command ( ) ( X )

                Run an REXX IMOD for the COMMAND
EDIT
_ IMOD ==> $JOBACCT <==      REXX EXEC to Execute
  Args ==> _                Old Style Args

                Replace COMMAND with the CMD below
==>                                                                <==

PF1=Help PF3=Return PF5=Save PF6=IMOD DIRECTORY
    
```

- |   |   |
|---|---|
| 4 | Press PF3 (Return) to return to the Console Commands Directory List for TECHVSE.                    |
| 5 | Press PF6 (Load) to load TECHVSE into the SVA. This makes TECHVSE the current console command file. |

You will see the following message:

**GAO647 COMMAND FILE TECHVSE LOADED**

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Step	Action
6	Press PF3 (Return) to return to the console display. The GAO647 message will be displayed on the console, too.
7	To execute \$JOBACCT from the BIM-FAQS/ASO command line, enter <b>\$JOBACCT</b> . A display like the following will appear on the console:

```

F1 0001 1QH3I 1 OF 540 DBLK GROUPS LOST 08:32:15
Z3-0048 GJJ206I JOB SCHEDULER ACTIVE 09:56:46
Z3 0087 Name Name Duration Duration Seconds Count 06:47:15
Z3 0087 F1 POWSTART IPWPOWER 70.15.13 22.15.08 1667.26 131645 06:47:15
Z3 0087 F3 VTAMSTRT ISTINCVT 70.14.41 22.14.40 258.46 68819 06:47:15
Z3 0087 Z3 JCLSCHED JCLSCHED 70.14.03 22.14.03 319.54 113893 06:47:15
Z3 0087 Z2 FAQSIUX FAQSIUX 70.14.13 22.14.12 060.72 192 06:47:15
Z3 0087 Z1 FAQSMAIN FAQSMX 70.14.39 22.14.38 299.30 13800 06:47:15
Z3 0087 BG NO NAME NO NAME 06:47:15
Z3 0087 F2 CICSICCF DFHSIP 70.14.35 22.13.58 436.62 7657 06:47:15
Z3 0087 F4 VSELCICS DFHSIP 69.56.39 21.56.30 243.92 11294 06:47:15
Z3 0087 F5 NO NAME NO NAME 06:47:15
Z3 0087 F6 NO NAME NO NAME 06:47:15
Z3 0087 F7 NO NAME NO NAME 06:47:15
Z3 0087 F8 NO NAME NO NAME 06:47:15
Z3 0087 F9 NO NAME NO NAME 06:47:16
Z3 0087 FA NO NAME NO NAME 06:47:16
Z3 0087 FB NO NAME NO NAME 06:47:16
Z3 0087 C1 AXPL1 AXPL1 45.15.16 21.15.16 002.56 920 06:47:16
Z3 0087 Y1 VSELEDIT BIMEDIT 60.41.24 12.41.24 044.50 6472 06:47:16

ENTER BIM-FAQS/ASO COMMAND (OPERATOR) (TIMED DISPLAY) 06:47:35
$JOBACCT
    
```

### Conclusion

In this section, you learned how to trigger a sample IMOD. In the next section, you will create your own IMOD and demonstrate the PW= action we discussed in Chapter 3, “Using BIM-FAQS/ASO Online.”

## Creating Your Own IMOD

### Task Overview

Although BIM-FAQS/ASO is shipped with many useful IMODs, you will want to create your own IMODs to meet your particular needs.

### Tasks

In this section, you will perform the following tasks:

Task	Action
I	Create an IMOD called \$PRTY
II	Execute \$PRTY

### IMODs in PDSs

You can search for IMODs in more than one PDS (partitioned dataset). All BIM-supplied IMODs reside in the SYSSMON PDS, with a data type of OAL. However, you can search this PDS as well as a user-defined PDS when you are looking for an IMOD to execute or edit.

The AO STARTUP (BIM-FAQS/ASO startup and initialization) procedure produces an informational message displaying the PDSs to search for REXX IMODs.

*If you are executing an IMOD from a PDS other than SYSSMON, any routines called by that IMOD must also reside in that PDS. For example, if your IMOD resides in SYSSUSR and calls \$ARG, \$ARG must also reside in SYSSUSR.*

## Task I: Creating an IMOD, \$PRTY

In this section, we will show you how to create your own IMOD. The IMOD you create will reflect a "real-world" application.

The IMOD you create will be called \$PRTY. The IMOD will do the following:

- The console command, PRTY, calls \$PRTY.
- \$PRTY prompts the user for a password.
- The console action, PW=, masks the password entered.
- \$PRTY either executes the correct PRTY command or cancels the command if an incorrect password is entered.

### Procedure

To create an IMOD, take the following steps:

Step	Action
1	From the BIM-FAQS/ASO command line, enter <b>AO R</b> . This takes you to the REXX IMOD File Directory List:

```

FAOMENUR.*      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
===>
** BIM-FAQS/ASO -- REXX IMOD File Directory List **      Key ==> *          <==
PDS ==> MON      <==

  IMOD NAME      RECORDS  UPDATE TIMESTAMP      COMPILE TIMESTAMP      Compiled
- $LVARGT        44      11/26/97 08.38.09      11/26/97 08.38.10      *
- $LVARSV        67      11/26/97 08.38.14      11/26/97 08.38.14      *
- $ADDRESS       26      11/19/97 15.44.40      11/19/97 15.44.40      *
- $ARG           47      11/19/97 15.44.21      11/19/97 15.44.22      *
- $BEEPASO      128      11/19/97 15.44.24      11/19/97 15.44.25      *
- $BEEPDPGT     244      11/19/97 15.44.30      11/19/97 15.44.31      *
- $BEEPDRR      59      11/19/97 15.44.26      11/19/97 15.44.27      *
- $BEEPDISC     238      11/19/97 15.44.28      11/19/97 15.44.29      *
- $BEEPDSK      10      11/19/97 09.53.46      11/19/97 09.53.46      *
- $BEEPDL       76      11/19/97 15.44.25      11/19/97 15.44.26      *
- $BEEPER       174      11/26/97 08.38.19      11/26/97 08.38.20      *
- $CALLTIM      242      11/19/97 15.44.32      11/19/97 15.44.32      *
- $CHKPDS       38      11/26/97 08.38.25      11/26/97 08.38.25      *
- $CICS         39      11/26/97 08.38.31      11/26/97 08.38.32      *
- $CICSREP      94      11/19/97 15.44.36      11/19/97 15.44.36      *
E=Execute X=Edit L=Delete R=Rename C=Copy P=Print

PF1=Help PF3=Return PF4=Refresh PF5=Add PF8=Fwd
  
```

*Continued*

*Continued*

---

Step	Action
2	Press PF5 (Add) to add a new IMOD. The following panel is displayed:

---

```
FAOMENUR.5      ** BIM-FAQS/ASO Online V5.1x  **      ID=TECHVSE.SJA
===>

      ** BIM-FAQS/ASO IMOD ADD **

Enter IMOD name to add.

==>

PF3=Return
```

---

3	Type <b>\$PRTY</b> as the IMOD name to add.
4	Press ENTER to enter the REXX editor. The following panel is displayed:

---

```
=>
MEM=$PRTY LINE=0
1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75.
* * * * B E G I N   F I L E * * * *
* * * * E N D   F I L E * * * *
=====
```

---

5	From the line containing BEGIN FILE, tab to the prefix area (=====) and enter <b>a7</b> to add seven lines. The IMOD you're going to create is seven lines long.
---	--

---

*Continued*



## Task II: Executing \$PRTY

\$PRTY is automatically triggered when a PRTY command is entered from the console display. \$PRTY prompts you for a password. If you enter the correct password (which you will), \$PRTY displays the information you requested. If you fail to enter the correct password, \$PRTY sends you a message stating that you're not authorized to enter PRTY commands, and it cancels the command you issued.

\$PRTY intercepts *any* PRTY command. In the example below, we will use PRTY with operands, but entering any PRTY command (for example, *PRTY*) from the console will trigger \$PRTY.

### Procedure

To execute \$PRTY, take the following steps. Be sure that the console is in operator mode.

Step	Action
1	From the BIM-FAQS/ASO command line, enter <b>AO LOAD CMD <i>filename</i></b> . <i>filename</i> is the name of the file you created on pages in Chapter 4, "Managing Messages and PF Keys," when you created the PRTY console command.
2	Enter a PRTY command suitable for your VSE machine. For example, we will enter <b>OP PRTY BG=FA=F9=F8,FB,F2,F4,F6,F7,F5,F3,F1</b> . You will be prompted for a password.

```

Z3-0048 GJJ206I JOB SCHEDULER ACTIVE                                08:45:35
F1 0001 1RB5I JOB JCLSUB 24263(26350) RECEIVED FROM BIM FOR P390 J-RV1
BG 0001 1Q47I BG JCLSUB 24263 FROM BIM(DRJ) , TIME=10:24:05      10:24:05
BG 0000 // JOB JCLSUB                                           10:24:05
          DATE 01/06/98,CLOCK 10/24/05                          10:24:05
Z3 0085 JCLSUB                                                  10:24:05
Z3 0085 This is the start of job number 44 since 6 Jan 1998 07:34:20 10:24:05
BG 0000 * JCLSUB LINK TO BIMCOL.FQ50AE2                        10:24:05
BG 0000 * VSE1.3 -- JCLSUB                                     10:24:06
BG 0000 EP039 ALLOCATED 0118716 THRU 0128715 IJSYSLN SYSLNK=400 EPV400 10:24:07
BG 0000 EP052 CLOSING OUTPUT IJSYSLN SYSLNK=400 EPV400         10:24:08
BG 0000 EP053 OPENING 0118716 THRU 0128715 IJSYSLN SYSLNK=400 EPV400 10:24:08
BG 0000 EP051 CLOSING INPUT IJSYSLN SYSLNK=400 EPV400         10:24:08
BG 0000 EOJ JCLSUB MAX.RETURN CODE=0000                       10:24:10
          DATE 01/06/98,CLOCK 10/24/10,DURATION 00/00/04      10:24:10
Z3 0085 It's almost twenty-five past ten.                      10:24:11
BG 0001 1Q34I BG WAITING FOR WORK                             10:24:11
F1 0001 1RA0I OUTPUT JCLSUB 24263(26350) TRANSMITTED TO BIM FOR BIM O-TR1
PRTY XCM ASOMAINT                                             10:24:14
Z3-0085 Enter Password PW=@@@@@                               10:24:14
ID=ASOMAINT
ENTER BIM-FAQS/ASO COMMAND (OPERATOR) (SCROLL) 10:26:10
    
```

*Continued*

*Continued*

Step	Action
------	--------

3 Enter **replid** **PW=WRONG**. *replid* is the task reply ID. (For example, we responded 023 PW=WRONG.) The password will be masked and you will see the following message:

***You are not allowed to do PRTY commands***

```

Z3-0048 GJJ206I JOB SCHEDULER ACTIVE                                08:45:35
BG 0001 1Q34I   BG WAITING FOR WORK                               10:26:41
F1 0001 1RA0I   OUTPUT JCLSUB 24264(26352) TRANSMITTED TO BIM FOR BIM O-TR1
F1 0001 1Q34I   PUN WAITING FOR WORK ON FED                       10:26:41
Z3 0085 It's just after twenty-five past ten.                     10:26:41
F1 0001 1RB5I   JOB PCSSUB 24265(26354) RECEIVED FROM BIM FOR P390 J-RV1
BG 0001 1Q47I   BG PCSSUB 24265 FROM BIM(DRJ) , TIME=10:26:52    10:26:52
BG 0000 // JOB  PCSSUB                                           10:26:52
        DATE 01/06/98,CLOCK 10/26/52                             10:26:52
Z3 0085 PCSSUB                                                  10:26:52
Z3 0085 This is the start of job number 46 since 6 Jan 1998 07:34:20 10:26:52
BG 0000 EOJ PCSSUB   MAX.RETURN CODE=0000                         10:26:54
        DATE 01/06/98,CLOCK 10/26/54,DURATION 00/00/02          10:26:54
BG 0001 1Q34I   BG WAITING FOR WORK                               10:26:55
F1 0001 1RA0I   OUTPUT PCSSUB 24265(26354) TRANSMITTED TO BIM FOR BIM O-TR1
F1 0001 1Q34I   PUN WAITING FOR WORK ON FED                       10:26:55
Z3 0085 It's just after twenty-five past ten.                     10:26:55
85 PW@@@@@@@@@ XCM ASOMAINI                                     10:27:52
Z3 0085 You are not allowed to do PRTY commands                   10:27:52
ID=ASOMAINI
ENTER BIM-FAQS/ASO COMMAND (OPERATOR) (SCROLL) 10:27:52
    
```

4 Repeat Step 1. Then, from the BIM-FAQS/ASO command line, enter  
**OP PRTY Y,U,P,C,FB,FA,F9,F8,F7,F6,F5,F4,F2,BG,Z,F3,F1**

*Continued*

*Continued*

Step	Action
5	This time, when prompted for a password, enter <b>replid PW=PRTYOK</b> . The password will be masked and BIM-FAQS/ASO will display your VSE machine's partition balancing scheme.

```

Z3-0048 GJJ206I JOB SCHEDULER ACTIVE                                10:29:46
AR 0015 5 F5 V 1024K 1024K 700000 OK 10:30:34
AR 0015 6 F6 V 1024K 1024K 700000 OK 10:30:34
AR 0015 7 F7 V 1024K 1024K 700000 OK 10:30:34
AR 0015 8 F8 V 2048K 2048K 700000 OK AXPLI 10:30:34
AR 0015 9 F9 V 1024K 1024K 700000 OK 10:30:34
AR 0015 A FA V 1024K 1024K 700000 OK 10:30:34
AR 0015 B FB V 1024K 1024K 700000 OK 10:30:34
AR 0015 S SVA-31 4944K 1200K 2500000 10:30:34
AR 0015 DYN-PA 17408K 10:30:34
AR 0015 DSPACE 5600K 10:30:34
AR 0015 SYSTEM 512K 10:30:34
AR 0015 AVAIL 15328K 10:30:34
AR 0015 TOTAL 122880K <----' 10:30:34
AR 0015 1I40I READY 10:30:34
PRTY XCM ASOMAINT 10:30:40
Z3 0085 Enter Password PW=@@@@@ 10:30:41
85 PW=@@@@@ XCM ASOMAINT 10:30:50
AR 0015 PRTY Y,U,P,C,FB,FA,F9,F8,F7,F6,F5,F4,F2,BG,Z,F3,F1 10:30:50
AR 0015 1I40I READY 10:30:50
ID=ASOMAINT
ENTER BIM-FAQS/ASO COMMAND (OPERATOR) (SCROLL) 10:30:51
    
```

Notice that the \$PRTY IMOD triggered automatically. Failing to enter the correct password denied a user access to the PRTY command. On the other hand, a user with the correct password entered it, the password was masked, and the requested display appeared.

---

## Conclusion

In this section, you created:

- A sample jobstream to trigger an IMOD
- An IMOD to mask a password

## Summary

### What You Did

In this chapter you:

- Learned about the REXX language
- Learned about IMODs
- Executed a sample IMOD, \$JOBACCT, using online and console commands
- Created your own IMOD to intercept the PRTY command, prompt you for a password, and mask the correct password

### What's Next?

In the next (and final) section, you will learn about a new way to control the appearance and functionality of the BIM-FAQS/ASO console -- console filtering.



# Chapter 6

## Console Filtering

---

This chapter explains how to use the BIM-FAQS/ASO extended security feature, console filtering.

### Task Overview

#### Introduction

BIM-FAQS/ASO contains enhanced security features for user access to BIM-FAQS/ASO displays and data. Using Extended Security, you can set up console filters to specify or limit access to console data.

Console filtering is a new feature of BIM-FAQS/ASO in VSE/ESA version 2 and above.

#### Tasks

In this chapter, you will perform the following tasks:

Task	Action
I	Create a console filter member
II	Define a console action
III	Define a variable
IV	Define a console condition

#### For More Information

For more reference-oriented information about console filtering, see Chapter 4 of the BIM-FAQS/ASO *Online User Guide*. But before consulting that, take a look at the online help accessible via PF1 (Help) from all the console filtering panels. There is full panel help as well as field-sensitive help keyed to terms within the full-panel help.

## Task I: Creating a Filter Member

### Console Filters and Entries

A console filter is a set of user-defined rules for controlling the appearance and functionality of the BIM-FAQS/ASO console.

Each “rule” in a console filter is a console filter entry. It is an equation consisting of one or two conditions that have to be satisfied in order for a console line to have its characteristics changed, or for a variable to be set.

### Access

You can access console filtering in either of the following ways:

Select the Extended Security menu option (option *S* off the *BIM-FAQS/ASO Online Menu*).

Enter **FILTER** from a BIM-FAQS/ASO command line. This takes you directly to the Console Filter Member List. Or, if you know the name of the filter you want to work on, enter **FILTER** *filtername*, where *filtername* is the name of a user-defined filter. Only the *filtername* filter will appear in the Console Filter Member List.

---

**Procedure**

To create a console filter member, take the following steps:

---

**Step    Action**


---

- 1        From the BIM-FAQS/ASO Online Menu, select option S, the Extended Security menu option. The Online Security panel is displayed:

```

FAQMENSC.S      ** BIM-FAQS/ASO Online V5.1x  **      ID=TECHVSE.SJA
====>
                ** BIM-FAQS/ASO -- Online Security  **

                T - Terminal filters maintenance

                PF01=Help PF03=Return PF12=Exit

```

- 2        From the Online Security panel, enter **T** to access the Console Filter Member List panel:

```

FAQMENST.T      ** BIM-FAQS/ASO Online V5.1x  **      ID=TECHVSE.SJA
====>
                ** BIM-FAQS/ASO -- Console Filter Member List **

                Search for FILTER:                      CPU id:

                FILTER  CPUID      DESCRIPTION                      DATE      TIME      RECS
                _ ASOMAINT      Example of filter use          07/16/97  11.32.56   10
                _ FAQSASO      Example of filter use          07/11/97  15.06.02   10
                _ PCSMAINT      PCSMAINT's filter             10/24/97  14.15.14   10

                A=Alter C=Copy L=Delete R=Rename  PF5=Add name= _____
                PF1=Help PF2=SrcH PF3=Retn PF4=Refresh

```

*Continued*

*Continued***Step Action**

- 3 To create a console filter of your own, you are going to copy a sample member (supplied with BIM-FAQS/ASO) called FAQSASO.

Move the cursor to the input field to the left of FAQSASO, in the FILTER column. Type C (Copy) in the field. Then type a name for your filter over FAQSASO. We will use the name USER1. Press ENTER. Your panel should look like the following:

```

FAQMENST.0      ** BIM-FAQS/ASO Online V5.1x  **          ID=TECHVSE.SJA
====>
      ** BIM-FAQS/ASO -- Console Filter Member List **

Search for FILTER:          CPU id:

FILTER  CPUID  DESCRIPTION          DATE    TIME    RECS
- ASOMAINT          Example of filter use  07/16/97 11.32.56    10
- FAQSASO          Example of filter use  07/11/97 15.06.02    10
- PCSMAINT          PCSMAINT's filter     10/24/97 14.15.14    10
- USER1           Example of filter use  11/28/97 07.02.40    10

A=Alter C=Copy L=Delete R=Rename PF5=Add name= _____
PF1=Help PF2=Srch PF3=Retn PF4=Refresh

```

- 4 To see the contents of console filter USER1, move your cursor to the input field to the left of it and press ENTER. The Console Filter Member Maintenance panel for USER1 is displayed:

```

FAQMENTA.A      ** BIM-FAQS/ASO Online V5.1x  **          ID=TECHVSE.SJA
====>
      ** BIM-FAQS/ASO -- Console Filter Member Maintenance **          Alter = 0
                                                                              Delete = 0
Filter name: USER1          CPU ID:          Stack = 0
Description: Example of filter use

0001 SET ACT=HLT(,RED,,HIG) IF MES(1,1)=='ASO>' OR N/A
0002 SET ACT=HLT(,BLU,,) IF PAR==S* OR N/A
0003 SET ACT=HLT(,RED,BLI,):END IF MES(1,5)==@@@447E OR MES(1,5)==@@@715+
0004 SET ACT=HLH(,YEL,REV,) IF PAR=='F1' OR N/A
0005 SET ACT=UNH IF PAR=='F1' OR N/A
0006 SET ACT=HLT(,BLU,,NML) IF PAR=='F4' OR N/A
0007 SET ACT=HLT(,TUR,,NML) IF PAR==T* OR N/A
0008 SET ACT=HLT(,WHI,,NML) IF ROU=(5,10,12,17-20,34,35,37,38) OR N/A
0009 SET ACT=HLT(,,HIG) IF LEV=(W,M,C,E) OR N/A

A=Add, L=Delete, C=Copy, M=Move, X=Expand, "=Dup, F(A), P(A)
PF1=Help PF3=Return PF4=Top PF5=Add PF6=File PF10=Shift

```

Filter USER1 contains nine filter entries, each of which defines an action to be performed on the BIM-FAQS/ASO console when a condition or conditions is met. (A filter entry can also define a variable, which can then be used to help define another entry's condition.) Each entry is like an equation that reads, "Do *this* if that is (or is not) true." For example, filter entry 0005 reads:

```
SET ACT=UNH IF PAR=='F1' OR N/A
```

This means, "Unhold any console line belonging to partition ID F1."

## Conclusion

You have learned how to access the console filtering feature, and how to create/copy a filter to work on. You have also learned a little about console filter entries.

In the next task, you will learn how to define a console action.

## Task II: Defining a Console Action

One of the basic tasks you can perform with console filtering is to set an action for a console condition. An action is any change to be made to a console's characteristics. For example, you want a particular message to display in red on the console. The action to be set in this case is color red. With console filtering, setting this action is easy.

### Procedure

To define an action, take the following steps:

Step	Action
1	On the Console Filter Member Maintenance panel for filter USER1, move your cursor to column 1 of the numbered prefix field for entry 0006, and press ENTER. The Console Filter Add/Copy panel for entry 0006 is displayed:

```

FAQMENTB.B          ** BIM-FAQS/ASO Online V5.1x **          ID=TECHVSE.SJA
===>
** BIM-FAQS/ASO -- CONSOLE Filter Add/Copy panel **          0006

Variable
Action      ( X )  Display control:      Highlight control: Color only ( _ )
                Suppress ( _ )      _ Highlight          NORMAL
                Hold      ( _ )      _ Color              BLUE
                Unhold    ( _ )      _ Extended attr      _____
                Beep      ( _ )
                End scan  ( _ )

IF NOT( _ )  _ PAR          (Partition id)          Exactly Equal ( X )
            _ 'F4'

                AND/OR ( X )          Or condition if on

NOT ( _ )  _ N/A          (None)          Exactly Equal ( _ )
            -

SET ACT=HLT(,BLU,,NML) IF PAR=='F4' OR N/A

PF1=Help  PF3=Return with line  PF12=Cancel line update
    
```

Notice that in the lower left-hand corner of this panel, the text of entry 0006 appears as it did on the Member Maintenance panel. Parts of that text also appear in the various fields of the Add/Copy panel. The relationship between these fields and the lower-left-hand display is soon apparent: As you use the fields to change parts of the entry, those changes are reflected in the entry's display at the bottom (once you press ENTER to update the display).

*Continued*

---

*Continued*

---

**Step    Action**

---

- 2        The first step to take in defining an action is to select action as the thing being defined. (We will see later how to define the other possible choice, a variable.). Entry 0006 already defines an action, as indicated by the X in the Action field. We're going to keep the action setting but change the action types.

Move your cursor to the input field to the left of Highlight and press ENTER. The following panel is displayed:

```
FAQMENTB.i        ** BIM-FAQS/ASO Online V5.1x    **        ID=TECHVSE.SJA
===>
                 ** BIM-FAQS/ASO INTENSITY Selection    **

NORMAL            ( X )
HIGH              ( _ )

PF3=Return
```

Remove the X from the NORMAL field and type an X in the HIGH field. Then press PF3 (Return). Back on the Add/Copy panel, move the cursor to the command line and press ENTER.

---

*Continued*

*Continued*

Step	Action
3	<p>Move the cursor to the input field next to Color and press ENTER. You now see a display that shows the following choices for color:</p> <ul style="list-style-type: none"> <li>• BLUE</li> <li>• RED</li> <li>• PINK</li> <li>• GREEN</li> <li>• TURQUOISE</li> <li>• YELLOW</li> <li>• WHITE</li> </ul>

Repeat the process that you went through for selecting intensity, changing the selection for color from BLUE to RED. Once you have finished, your panel should look like the following:

```

FAQMENTB.B          ** BIM-FAQS/ASO Online V5.1x **          ID=TECHVSE.SJA
====>
** BIM-FAQS/ASO -- CONSOLE Filter Add/Copy panel **          0006

Variable           _
Action             ( X )  Display control:      Highlight control: Color only ( _ )
                    Suppress ( _ )             _ Highlight          HIGH
                    Hold      ( _ )             _ Color              RED
                    Unhold    ( _ )             _ Extended attr      _____
                    Beep      ( _ )
                    End scan  ( _ )

IF NOT( _ ) _ PAR      (Partition id)              Exactly Equal ( X )
                    _ 'F4'

                    AND/OR ( X )              Or condition if on

NOT ( _ ) _ N/A      (None)                      Exactly Equal ( _ )
                    _

SET ACT=HLT(,RED,,HIG) IF PAR=='F4' OR N/A

PF1=Help  PF3=Return with line  PF12=Cancel line update

```

4	Press PF3 (Return with line) to return to the Console Filter Member Maintenance panel with the changed line.
---	--

## Conclusion

You have learned how to define an action for a console entry. In the next task, you will learn how to set up a variable for a console entry.

### Task III: Setting a Variable

A task that is key to the benefits of console filtering is the ability to set a variable. A variable is a preliminary condition that is set so it can be used as part of another condition definition. A variable enables the BIM-FAQS/ASO user to introduce into the condition definition process more than the two levels of decision-making available from the IF fields on the Console Filter Add/Copy panel. By setting variables, a user taps into the full complexity of console filtering as a way of controlling the console display.

#### Procedure

To define a variable, take the following steps:

Step	Action
1	On the Console Filter Member Maintenance panel, make a copy of filter entry 0009. To do this, move the cursor to any part of the numbered editing area 0009, type a quote mark ( " ), and press ENTER. A copy of 0009 is made and listed below it as 0010:

```

FAQMENTA.0      ** BIM-FAQS/ASO Online V5.1x **          ID=TECHVSE.SJA
===>
** BIM-FAQS/ASO -- Console Filter Member Maintenance **          Alter = 3
                                                                    Delete= 0
Filter name: USER1          CPU ID:          Stack = 0
Description: Example of filter use

0001 SET ACT=HLT(,RED,,HIG) IF MES(1,1)=='ASO>' OR N/A
0002 SET ACT=HLT(,BLU,,) IF PAR==S* OR N/A
0003 SET ACT=HLT(,RED,BLI,):END IF MES(1,5)==@@447E OR MES(1,5)==@@715+
0004 SET ACT=HLH(,YEL,REV,) IF PAR=='F1' OR N/A
0005 SET ACT=UNH IF PAR=='F1' OR N/A
0006 SET ACT=HLT(,RED,,HIG) IF PAR=='F4' OR N/A
0007 SET ACT=HLT(,TUR,,NML) IF PAR==T* OR N/A
0008 SET ACT=HLT(,WHI,,NML) IF ROU=(5,10,12,17-20,34,35,37,38) OR N/A
0009 SET ACT=HLT(,,HIG) IF LEV=(W,M,C,E) OR N/A
0010 SET ACT=HLT(,,HIG) IF LEV=(W,M,C,E) OR N/A

A=Add, L=Delete, C=Copy, M=Move, X=Expand, "=Dup, F(A), P(A)
PF1=Help PF3=Return PF4=Top PF5=Add PF6=File PF10=Shift

```

Move your cursor to the numbered editing area for 0010, press the 'x' key and then press ENTER.

*Continued*

*Continued*

- | Step | Action   |
|------|--|
| 2    | On the Add/Copy panel, put a blank in the Action field and then type a two-digit number (01-99) in the Variable field. For our example, we will use 01. Press ENTER, and you should see the following display: |

```

FAQMENTB.B      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====>
** BIM-FAQS/ASO -- CONSOLE Filter Add/Copy panel **    0010

Variable      01
Action      ( _ )  Display control:      Highlight control: Color only ( _ )
                Suppress ( _ )      _ Highlight      HIGH
                Hold ( _ )        _ Color          _____
                Unhold ( _ )     _ Extended attr  _____
                Beep ( _ )
                End scan ( _ )

IF NOT( _ )  _ LEV      (Message level)      Exactly Equal ( _ )
            _ (W,M,C,E)

                                AND/OR ( X )      Or condition if on

NOT ( _ )  _ N/A      (None)      Exactly Equal ( _ )
            -

SET V01 IF LEV=(W,M,C,E) OR N/A

PF1=Help  PF3=Return with line  PF12=Cancel line update
    
```

Note the display of variable 01 (V01) at the lower left.

- |   |  |
|---|--|
| 3 | To set a different condition for variable 01 (different from the one for entry 0009), move the cursor to the input field next to LEV, and press ENTER. The following panel is displayed: |
|---|--|

```

FAQMENTB.t      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
====>
** BIM-FAQS/ASO FILTER Type Selection **

for Message, data must start between columns  _  and  _
for Variable, get data from variable number  _

Message          ( _ )
Partition id     ( _ )
Job name        ( _ )
Attributes       ( _ )
Descriptor codes ( _ )
Message level   ( X )
System name of originator ( _ )
Routing codes   ( _ )
Miscellaneous flags ( _ )
CART information ( _ )
Variable number ( _ )
None            ( _ )

PF3=Return
    
```

We're going to change the filter type here to Partition id. So delete the X next to Message level and put one next to Partition id instead. Press PF3 (Return).

*Continued*

*Continued***Step    Action**

- 4        Now move the cursor to the input field next to (W,M,C,E) and press ENTER. You should see this panel:

```

FAQMENTB.p        ** BIM-FAQS/ASO Online V5.1x    **        ID=TECHVSE.SJA
===>
                 ** BIM-FAQS/ASO Target partition definition **

Look for the following partition:

(W

Select from the following list:
# - match any number (0-9)
$ - match if alphanumeric
@ - match if alphabetic
* - match a pattern

PF3=Return

```

As data to complete the Partition id filter type for our example, we're going to specify partition F1. Overtyping ( W with F1, and then press PF3 (Return).

- 5        Back on the Add/Copy panel, move the cursor to the command line and press ENTER. The full definition of variable 01 should now appear:

```

FAQMENTB.0        ** BIM-FAQS/ASO Online V5.1x    **        ID=TECHVSE.SJA
===>
** BIM-FAQS/ASO -- CONSOLE Filter Add/Copy panel **    0010

Variable    01
Action    ( _ )    Display control:    Highlight control: Color only ( _ )
                 Suppress ( _ )    _ Highlight        HIGH
                 Hold    ( _ )    _ Color            _____
                 Unhold ( _ )    _ Extended attr    _____
                 Beep    ( _ )
                 End scan ( _ )

IF NOT( _ )    _ PAR            (Partition id)            Exactly Equal ( X )
                 _ 'F1'

                 AND/OR ( X )            Or condition if on

NOT ( _ )    _ N/A            (None)            Exactly Equal ( _ )
                 _

SET V01 IF PAR=='F1' OR N/A

PF1=Help    PF3=Return with line    PF12=Cancel line update

```

*Continued*

---

*Continued*

---

Step	Action
6	To list variable 01 as part of console filter USER1, press P3 (Return). Variable 01 has been set and is now listed as entry 0010 on the Member Maintenance panel:

---

```
FAQMENTA.3      ** BIM-FAQS/ASO Online V5.1x  **          ID=TECHVSE.SJA
===>
** BIM-FAQS/ASO -- Console Filter Member Maintenance **      Alter = 3
                                                              Delete= 0
Filter name: USER1          CPU ID:          Stack = 0
Description: Example of filter use

0001 SET ACT=HLT(,RED,,HIG) IF MES(1,1)=='ASO>' OR N/A
0002 SET ACT=HLT(,BLU,,) IF PAR==S* OR N/A
0003 SET ACT=HLT(,RED,BLI,):END IF MES(1,5)==@@447E OR MES(1,5)==@@715+
0004 SET ACT=HLH(,YEL,REV,) IF PAR=='F1' OR N/A
0005 SET ACT=UNH IF PAR=='F1' OR N/A
0006 SET ACT=HLT(,RED,,HIG) IF PAR=='F4' OR N/A
0007 SET ACT=HLT(,TUR,,NML) IF PAR==T* OR N/A
0008 SET ACT=HLT(,WHI,,NML) IF ROU=(5,10,12,17-20,34,35,37,38) OR N/A
0009 SET ACT=HLT(,,HIG) IF LEV=(W,M,C,E) OR N/A
0010 SET V01 IF PAR=='F1' OR N/A

A=Add, L=Delete, C=Copy, M=Move, X=Expand, "=Dup, F(A), P(A)
PF1=Help PF3=Return PF4=Top PF5=Add PF6=File PF10=Shift
```

---

## Conclusion

You have just learned how to set a variable, and how to use one of the two condition fields to do so.

In the next (and final) task, you will build a complete console condition, using the variable you have just set as part of it.

## Task IV: Defining a Console Condition

Once you have defined actions and possibly a variable or two, you are ready to create a full-fledged console entry by defining a condition that is tied to a console action. To define a console condition, you will use the same IF field (in our example, you will use both IF fields) that you used to set a variable.

### Procedure

To define a condition, take the following steps:

Step	Action
1	On the Console Filter Member maintenance panel for filter USER1, type a slash ( / ) in the numbered prefix field for the 0010 entry (the variable 01 entry you created in Task III). Press ENTER. You should now have a display of the panel showing just the 0010 entry. (The other entries have been moved up in the display while 0010 becomes the current entry.)

```

FAQMENTA.0      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
===>
** BIM-FAQS/ASO -- Console Filter Member Maintenance **      Alter = 3
                                                              Delete= 0
Filter name: USER1      CPU ID:      Stack = 0
Description: Example of filter use

0010 SET V01 IF PAR=='F1' OR N/A

A=Add, L=Delete, C=Copy, M=Move, X=Expand, "=Dup, F(A), P(A)
PF1=Help PF3=Return PF4=Top PF5=Add PF6=File PF10=Shift PF7=Bwd

```

*Continued*





*Continued***Step    Action**

- 6        Using variable 01, we set a condition saying that anything associated with partition F1 is to be shown in red on the console. For a second condition, let's narrow anything down to messages beginning with the characters GPP.

*Move your cursor to the lower condition field (currently labeled N/A), and press ENTER. On the Filter Type Selection panel, make the following entries and press PF3 (Return):*

```

FAQMENTB.t      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
===>
          ** BIM-FAQS/ASO FILTER Type Selection **

for Message, data must start between columns 01 and 01
for Variable, get data from variable number  __

Message          ( x )
Partition id     ( _ )
Job name         ( _ )
Attributes       ( _ )
Descriptor codes ( _ )
Message level    ( _ )
System name of originator ( _ )
Routing codes    ( _ )
Miscellaneous flags ( _ )
CART information ( _ )
Variable number  ( _ )
None            ( _ )

PF3=Return

```

- 7        After you press ENTER back on the Add/Copy panel to update it, you should end up with the following display:

```

FAQMENTB.0      ** BIM-FAQS/ASO Online V5.1x **      ID=TECHVSE.SJA
===>
** BIM-FAQS/ASO -- CONSOLE Filter Add/Copy panel **      0000

Variable        __
Action          ( X )  Display control:  Highlight control: Color only ( _ )
                  Suppress ( _ )      _ Highlight
                  Hold      ( _ )      _ Color          RED
                  Unhold    ( _ )      _ Extended attr  _____
                  Beep      ( _ )
                  End scan  ( _ )

IF NOT( _ )  _ V01      (Variable number 01)  Exactly Equal ( _ )
            -
                  AND/OR ( X )      Or condition if on

NOT ( _ )  _ MES(01,01) (Message)  Exactly Equal ( X )
Upper    - _____

SET ACT=HLT(,RED,,) IF V01 OR MES(01,01)==_____

PF1=Help  PF3=Return with line  PF12=Cancel line update

```

*Continued*



*Continued*

**Step    Action**

- 10    Let's make one more change to our conditions. We would want both conditions to be true for our action to be triggered, so remove the X from the AND/OR field in order to denote an AND relationship between the two conditions. Press ENTER to update, and you should now have the following complete entry definition:

```

FAQMENTB.0      ** BIM-FAQS/ASO Online V5.1x **          ID=TECHVSE.SJA
====>
** BIM-FAQS/ASO -- CONSOLE Filter Add/Copy panel **      0000

Variable      _
Action      ( X )  Display control:      Highlight control: Color only ( _ )
                Suppress ( _ )          _ Highlight
                Hold      ( _ )          _ Color          RED
                Unhold    ( _ )          _ Extended attr
                Beep      ( _ )
                End scan  ( _ )

IF NOT( _ )    _ V01          (Variable number 01)      Exactly Equal ( _ )
                -
                AND/OR ( _ )          Or condition if on

NOT ( _ )     _ MES(01,01)    (Message)          Exactly Equal ( X )
Mixed        _ 'gpp'

SET ACT=HLT(,RED,,) IF V01 AND MES(01,01)=='gpp'

PF1=Help  PF3=Return with line  PF12=Cancel line update
    
```

- 11    To add this entry to the entries in console filter USER1, press PF3 (Return). You should see an updated Member Maintenance panel with the entry you have just created at the bottom of the panel:

```

FAQMENTA.3      ** BIM-FAQS/ASO Online V5.1x **          ID=TECHVSE.SJA
====>
** BIM-FAQS/ASO -- Console Filter Member Maintenance **  Alter = 5
                                                         Delete= 0
Filter name: USER1          CPU ID:          Stack = 0
Description: Example of filter use

0010 SET ACT=HLT(,,HIG) IF PAR=='F1' OR N/A
0011 SET ACT=HLT(,RED,,) IF V01 AND MES(1,1)=='gpp'

A=Add, L=Delete, C=Copy, M=Move, X=Expand, "=Dup, F(A), P(A)
PF1=Help PF3=Return PF4=Top PF5=Add PF6=File PF10=Shift PF7=Bwd
    
```

*Continued*





# Appendix A

## Sample Installation Error Messages

---

This appendix explains some of the error messages you may encounter while installing BIM-GSS or BIM-FAQS/ASO.

### Introduction

While we do not anticipate that you will have any errors when you run the IBGS installation jobstream, it's possible that an error could result. If you can't find sufficient information in this section to troubleshoot any problems yourself, contact BIM Technical Support.

### IBGS Error Messages

The following error messages can be produced from the IBGS jobstream:

Message	Action
BG 000 +-----+ BG 000             THERE IS A BAD LABEL FOR SYS\$xxx RC=yy BG 000 +-----+	There is an error in a PDS label. The installation is canceled.
<b>xxx is the PDS ID. yy is the return code value.</b>	Check all your PDS labels, correct any labeling errors, and run IBGS again.
BG 000 +-----+ BG 000             THERE IS NO LABEL FOR SYS\$xxx BG 000 +-----+	There is no PDS label.
	Check all your PDS labels, supply any missing PDS labels, and run IBGS again.
BG 000 +-----+ BG 000      SYS\$xxx LABEL DOES NOT MATCH VTOC ENTRY ON DISK BG 000             A FORMAT OF SYS\$xxx WILL OCCUR BG 000 +-----+	A label was found in standard or partition labels that was different from the VTOC entry. In this case, the SYS\$xxx PDS will be formatted automatically.

## BIM-FAQS/ASO

### Introduction

While we do not anticipate that you will have any errors when you run the IASO installation jobstream, it's possible that an error could result. If you can't find sufficient information in this section to troubleshoot any problems yourself, contact BIM-FAQS/ASO Technical Support.

### IASO Error Messages

The installation error messages you might encounter in the IASO jobstream are the same as the BIM-GSS IBGS jobstream error messages. See the previous section.

## MSHP

### Introduction

If you chose to do an MSHP installation of BIM-GSS or BIM-FAQS/ASO, you might encounter one or more of the following error messages. If you encounter a problem that you can't troubleshoot on your own, contact BIM FAQS/ASO Technical Support.

---

## MSHP Error Messages

---

---

### If IBGS or IASO displays

---

BG 000 M083I FUNCTION CANCELED AS REQUESTED  
BG 000 1S78I JOB TERMINATED DUE TO RETURN  
BG 000 CODE  
BG 000 M231D INSTALLATION WILL SUPERSEDE  
BG 000 PRODUCT COM50A. ENTER  
BG 000 "DELETE" OR "KEEP"  
\*BG 000  
0 delete

---

### Action

---

Enter 0 **xxxxxxx**.  
*xxxxxx* is either **DELETE** or **KEEP**. If you enter **DELETE**, existing history information is deleted for the specified product. If you enter **KEEP**, existing history information is retained.

---

BG 000 M234I FOLLOWING  
BG 000 SUPERSEDED/OBSOLETED PRODUCTS WILL  
BE DELETED:  
BG 000 COM341 COM50A  
BG 000 M089D ENTER "GO" TO CONTINUE OR  
BG 000 "CANCEL" TO TERMINATE  
\*BG 000  
0 go

---

---

Enter 0 **GO** to continue or 0 **CANCEL** to terminate the installation.

---



# Appendix B

## Sample Online Configurations

---

This appendix presents some sample initialization configurations for BIM-FAQS/ASO.

### Introduction

The following are examples of initialization configurations you might use to initialize BIM-FAQS/ASO, depending on your VSE version and release.

**Important!** *Whatever online configuration you implement for BIM-FAQS/ASO and/or BIM-FAQS/PCS, be sure that you put batch (FAQSAO) and online (FAQSMAIN) in different partitions if you use IMODs extensively. In this case it is best to subtask FAQSAO under JCLSCHED or some other longer running batch task.*

### BIM-FAQS/ASO with BIM-FAQS/PCS

The following sample configuration is used to initialize BIM-FAQS/ASO when BIM-FAQS/PCS is installed:

```
// SETPFIX LIMIT=200K  
// EXEC JCLSCHED,SIZE=JCLSCHED
```

Include the following statements in the JCLSCHED.CTL file:

```
AUTO $FAQSMAIN  
AUTO &FAQSAO  
AUTO $BIM$TIDR  
AUTO $FAQSVMX
```

## BIM-FAQS/ASO Without BIM-FAQS/PCS

The following sample configuration is used to initialize BIM-FAQS/ASO when BIM-FAQS/PCS is **not** installed:

```
// SETPFIX LIMIT=200K  
// EXEC BIM$UTTS,SIZE=xxxx,PARM='FAQSAO#FAQSVSPO#FAQSAO#BIM$TIDR#, X  
FAQSMAIN'
```

In this example, you must continue the // EXEC statement because you can fit a maximum of only 72 characters on one line. To continue the // EXEC statement, place a comma (,) after the last pound sign (#), and place an *X* in the 72nd column. Place *BIM\$TIDR*' by itself on the second line.

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