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B I M - F A Q S **(A S O & P C S)**

AUTOMATED OPERATIONS

INSTALLATION AND INITIALIZATION GUIDE

Release 5.0

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This documentation applies to
Release 5.0 of the program product
BIM-FAQS (ASO & PCS).

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About This Guide

Purpose

The *BIM-FAQS (ASO & PCS) Installation and Initialization Guide* describes the procedures needed to install BIM-FAQS/ASO and BIM-FAQS/PCS.

Organization

This manual is organized as follows:

Chapter	Description
1	Provides an overview of BIM-FAQS.
2	Presents a checklist you should follow in order to install and initialize BIM-FAQS/ASO and/or BIM-FAQS/PCS.
3	Discusses preinstallation and reinstallation considerations for BIM-FAQS.
4	Explains how to interact with the installation jobstream in order to install BIM-FAQS.
5	Explains the basics of initializing BIM-FAQS/ASO and BIM-FAQS/PCS.
A	Contains MSHP information relevant to BIM-FAQS.
B	Covers some of the major optional features of BIM-FAQS/ASO and BIM-FAQS/PCS.
C	Presents reinstallation considerations for pre-3.41 releases of BIM-FAQS/ASO and BIM-FAQS/PCS.
Index	Provides an efficient way to locate specific material.

Who Should Use This Manual

Audience Profile

The *BIM-FAQS (ASO & PCS) Installation Guide* is for users who are responsible for installing either BIM-FAQS/ASO or BIM-FAQS/PCS.

Publications

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

- BIM-FAQS common manuals
- BIM-FAQS/ASO *Online User's Guide*
- BIM-FAQS/ASO *Trial Guide*
- BIM-FAQS/ASO *User's Guide*

The documentation set provided with BIM-FAQS/PCS consists of the following manuals:

- BIM-FAQS common manuals
- BIM-FAQS/PCS *Implementation Guide*
- BIM-FAQS/PCS *Trial Guide*
- BIM-FAQS/PCS *Operations Guide*

BIM-FAQS Common Manuals

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

Related Publications

Besides the manuals in the BIM-FAQS/ASO and BIM-FAQS/PCS documentation sets, the following reference materials can help you to use BIM-FAQS/ASO and BIM-FAQS/PCS:

- IBM VSE advanced functions manuals:
- *Data Management Concepts* (GC33-6192)
- *System Control Statements* (SC33-6198)
- *DOS/VSE JCL*, by Steve Eckols
- *The REXX Language: A Practical Approach to Programming*, by M.F. Cowlshaw

Conventions Used in This Manual

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
<i>lowercase italic type</i>	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>
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.

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.

For	Be Sure to Check
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 or BIM-FAQS/PCS 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 or BIM-FAQS/PCS 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 or BIM-FAQS/PCS 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, 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

Introduction

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

BIM-FAQS

What Is BIM-FAQS?

BIM-FAQS is a family of automated operations products. The *BIM-FAQS (ASO & PCS) Installation and Initialization Guide* combines, in a single document, the information you need to install and initialize the BIM-FAQS component products.

The BIM-FAQS installation tape contains two products:

- BIM-FAQS/ASO
- BIM-FAQS/PCS

Which Version of BIM-FAQS Do You Need?

If you already have BIM-FAQS on your system and you attempt to install a version that is:

Lower than your current version, BIM-FAQS cancels the installation jobstream and notifies you that you have a higher version installed.

The same as your current version, BIM-FAQS notifies you that you are reinstalling and offers you the option of canceling or continuing the installation.

BIM-FAQS is upwardly compatible.

Important! *If you have a pre-3.41 version of BIM-FAQS/ASO or BIM-FAQS/PCS installed and you are planning to install Version 5.0, see the reinstallation information in Appendix C, “Pre-3.41 Releases: Reinstallation Considerations.” You must perform these reinstallation tasks or risk serious consequences to your system operation.*

BIM-FAQS Environment

Operating System Prerequisite

The BIM-FAQS Version 5.0 tape supports the following operating systems:

VSE/ESA 1.3, 1.4, 2.1, 2.2 and 2.3

The BIM-FAQS distribution tape actually contains two sets of code:

- Code for VSE/ESA 1.3 and 1.4
- Code for VSE/ESA 2.1 and above

***Important!** The BIM-FAQS code for VSE/ESA 2.1 will not run on the earlier system levels. You must install the BIM-FAQS code for ESA 2.1 on ESA 2.1. Also, do not copy BIM-FAQS code or do LIBR backups/restores of the BIM-FAQS library from a previous system level to ESA 2.1.*

Installer Prerequisite

You can install BIM-FAQS if you have VSE systems programming experience with MSHP or LIBR knowledge. The installation usually takes 30-60 minutes.

Chapter 2

Installation and Initialization Checklist

This chapter presents a checklist you should follow in order to install and initialize BIM-FAQS/ASO and/or BIM-FAQS/PCS.

Introduction

To install BIM-FAQS, you must perform the tasks in the following checklist. Some tasks may not apply, depending on your system setup. Each of these tasks is explained in detail in Chapter 3, “Preinstallation and Reinstallation,” and Chapter 4, “Installation Jobstream.” Next to each task is the page number on which the task is explained. Check off each task as you complete it.

***Important!** Before attempting to install BIM-FAQS, make sure you are aware of the following:*

- Do not attempt the installation without reading through this chapter first.
- All BIM-FAQS products require BIM-GSS. To avoid complications, you should install BIM-FAQS and BIM-GSS in the same library.sublibrary.
- Do not start the installation if required files are not defined. The files that requires should have been defined prior to installing BIM-GSS (see "Checklist: Task 1" below).

*Perform the installation in a controlled environment only. You should be able to IPL (if needed). The BIM-FAQS SVA modules are **not** compatible with previous versions.*

Checklist

Perform the tasks in the following list to install BIM-FAQS:

1. Install BIM-GSS *prior* to installing BIM-FAQS.
2. Determine the residence *library.sublibrary* in which to install the BIM-FAQS products. This should be the same *library.sublibrary* in which BIM-GSS was installed.
3. Make the appropriate preinstallation decisions.
4. Perform the preparatory steps necessary for each component you install:
 - If you are installing BIM-FAQS/ASO on a pre-ESA 2.1 system, define the FAQSMMSG VSAM file.
 - Ensure that SYSS\$VIO and SYSS\$MON are already defined. Optionally, define SYSS\$ARC or SYSS\$CPR (or both) if you plan to install BIM-FAQS/ASO, and define SYSS\$LOG and SYSS\$EVT if you plan to install BIM-FAQS/PCS. You must specify separate sets of PDS files if you are running different levels of the VSE operating system or different versions of BIM-FAQS.
5. Be sure that the appropriate LIBDEFs are added to the BG partition. Individual product installation for the BIM-FAQS products requires that the BG partition have the appropriate LIBDEFs.
6. Back up the residence library, the BIM PDSs, and any user-defined PDSs that your installation uses. *If you have already done this as part of the BIM-GSS installation, do not do it again here.*
7. Ensure that the appropriate installation environment exists before you attempt any installation procedures. You must have:
8. The ability to IPL
9. 50K of free space in your SVA
10. Access to a tape drive
11. The use of a 1M BG partition
12. Ensure that you understand the recovery procedure, so that you are prepared if you have to execute it.
13. Run the installation jobstream.
14. Optionally, load the CMS modules. Old CMS modules do not support the current version of BIM-FAQS.
15. Initialize BIM-FAQS/ASO or BIM-FAQS/PCS (or both).

16. Note that you **cannot** use either BIM-FAQS/ASO or BIM-FAQS/PCS until you have initialized it.

Chapter 3

Preinstallation and Reinstallation

This chapter covers preinstallation and reinstallation considerations for the BIM-FAQS products.

Preinstallation

Before you begin to install BIM-FAQS, you must perform the following tasks. Depending on your system setup, some of these tasks may not apply.

1. Install *BIM-GSS* prior to installing BIM-FAQS.
2. Determine the residence library, *lib.sublib*, in which to install BIM-FAQS. This should be the same *lib.sublib* in which *BIM-GSS* was installed.
3. Make the preinstallation decisions discussed on later in this chapter.
4. Perform the preparatory steps necessary for each component you install:
 - If you are installing BIM-FAQS/ASO on a pre-ESA 2.1 system, define the FAQSMMSG VSAM file.
 - Ensure that SYSS\$VIO and SYSS\$MON are already defined. Optionally, define SYSS\$ARC or SYSS\$CPR (or both) if you plan to install BIM-FAQS/ASO, and define SYSS\$LOG and SYSS\$EVT if you plan to install BIM-FAQS/PCS. You must specify separate sets of PDS files if you are running different levels of the VSE operating system or different versions of BIM-FAQS.

Installation Checklist

For a checklist of these and other installation tasks, see Chapter 2, “Installation and Initialization Checklist.” Check off each task as you complete it.

Residence Library

The *residence library* is the library in which the BIM-FAQS phases reside. This library should not be the SYSRES library. It can be any private sublibrary.

Important! Failure to install BIM-FAQS phases in the same residence library and to keep them at a compatible level with products they interface to results in mixed versions and initialization problems.

Space Requirements

To determine how much DASD space your residence library requires for the BIM-FAQS modules, use the following table:

Product	Number of 1K Library Blocks Required
BIM-FAQS/ASO and BIM-FAQS/PCS	6100

CKD DASD

The following table lists the most frequently used types of DASD and tells how many 1K blocks are available for data. These numbers reflect the actual data storage capacity, not the total device capacity.

After you determine how many 1K blocks you need in your residence library, use the following table to translate that number into tracks and cylinders:

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

FBA DASD

FBA DASD requires two 512-byte blocks for each 1K library block.

Preinstallation Decisions

Introduction

Before you begin the BIM-FAQS installation, you must decide whether you will be:

- Installing BIM-FAQS for the first time or reinstalling.
- Using MSHP or LIBR to install BIM-FAQS.

Each of these installation decisions is explained below.

New Installation or Reinstallation

If you are installing BIM-FAQS for the first time, you can skip the section "Reinstallation," later in this chapter.

If you are reinstalling BIM-FAQS, you must read the section "Reinstallation," and make decisions accordingly.

MSHP or LIBR?

You can use either MSHP or LIBR to install BIM-FAQS. The following table explains these options:

Option	Explanation
MSHP	<p>MSHP is used to install BIM-FAQS. Entries are added to the history file for applying maintenance.</p> <p>We encourage using MSHP because it simplifies product maintenance. All BIM-FAQS/ASO and BIM-FAQS/PCS fixes are shipped in MSHP format. Using MSHP eliminates incompatibilities between products.</p> <p>If you use MSHP, a 1M BG partition is required for installation. Note that if you decide to install BIM-FAQS into a different residence library from the one you used for a previous MSHP installation, you must change residence information before installation. For more information, see Appendix A, “MSHP Information.”</p>
LIBR	<p>LIBR is invoked directly to do the product restores. No entries are logged in a history file. You can install into any sublibrary.</p>

VSE/ESA Version 2 and above: EXPLAIN Facility

Introduction

If you are installing BIM-FAQS/ASO on VSE/ESA version 2 or above, you can no longer use the FAQSMMSG VSAM file to access online message explanations for BIM-FAQS/ASO and BIM-FAQS/PCS. Instead, you must use IBM's EXPLAIN facility.

Procedure

If the EXPLAIN facility is not already active, enter **EXPLAIN ON** from a BIM-FAQS/ASO command line (in operator mode) to activate it.

Once the EXPLAIN facility is active, you access message explanations through it in the same way that you did with the FAQSMMSG facility. Enter **HELP** and/or **MSG msg** to access a message explanation. *msg* is a message ID--for example, GJJ999.

All pre-ESA 2.1 versions of BIM-FAQS/ASO continue to use the FAQSMMSG VSAM file for viewing message explanations online.

Pre-ESA-2.1 Messages: FAQSMMSG File

Introduction

If you are installing *BIM-FAQS/ASO* on a pre-ESA 2.1 system, you must add a standard label or partition label for the FAQSMMSG VSAM file before the installation. This file holds system- and user-defined messages, as well as help screens.

The installation loads the FAQSMMSG file. If you are currently running a version of *BIM-FAQS/ASO* and you have already defined the FAQSMMSG file, the current file is updated from tape, preserving previous user-defined messages, security, or configuration.

Requirements

The FAQSMMSG VSAM file has the following requirements:

- Filename must be FAQSMMSG, and must reside in standard labels or in the *BIM-FAQS/ASO* online partition.
- Key length is 12. Key position is 0.
- Average record size is 1024 bytes. Maximum record size is 6000 bytes.

Sample Definition Jobstream

The following jobstream is a sample of the FAQSMMSG VSAM file definition:

```
// 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 a DASD volume serial number.

BIM-FAQS/ASO Optional Datasets: SYS\$ARC and SYS\$CPR

Introduction

If you plan to use the BIM-FAQS/ASO sysout archival and BIM-CPR (CICS Print Report), you should define SYS\$ARC and SYS\$CPR, the PDSs that serve these facilities, before you install BIM-FAQS/ASO. Doing so makes initializing these files easier. You must specify separate sets of PDS files if you are running different levels of the VSE operating system or different versions of BIM-FAQS/ASO.

The BIM-FAQS/ASO sysout archival facility allows you to archive end-of-job reports to a PDS and access them online. SYS\$ARC is the PDS that contains the sysout archival files.

BIM-CPR allows you to use CICS-defined printers (remote or local) to print part or all of the POWER RDR, LST, and PUN members.

If you are reinstalling BIM-FAQS, and you have already defined SYS\$ARC or SYS\$CPR, you need not redefine these PDSs.

Size

SYS\$ARC requires 1 4K block or 8 FBA blocks per archived report. To allow for 500 archived reports in the PDS, allocate 500 4K blocks or 4000 FBA blocks. This is equal to 50 tracks of 3380 DASD (10 4K blocks per track).

SYS\$CPR requires 5 4K blocks or 40 FBA blocks for internal profiles. One 4K block or 8 FBA blocks normally contain a page of output. To allow for 1000 pages of normal output in the PDS, allocate 1010 4K blocks or 8080 FBA blocks. This is equal to 101 tracks of 3380 DASD (10 4K blocks per track). However, if the page data is dense, the storage requirement doubles.

Specifications

SYS\$ARC and SYS\$CPR are defined as sequential files. The DASD volume IDs must be specified and the logical unit should be omitted. You must include DLBL and EXTENT statements for your PDSs, in system standard labels.

Sample JCL: SYSS\$ARC

The following shows a sample of DLBL and EXTENT statements for SYSS\$ARC on a 3380 DASD:

```
// DLBL SYSS$ARC,'file.ID',99/365  
// EXTENT ,volser,1,0,8675,50
```

file.ID is the file identifier you assign to SYSS\$ARC. *volser* is the DASD volume serial number. We recommend that you use a file identifier which suggests the sysout archival function.

Sample JCL: SYSS\$CPR

The following shows a sample of DLBL and EXTENT statements for SYSS\$CPR on a 3380 DASD:

```
// DLBL SYSS$CPR,'file.ID',99/365  
// EXTENT ,volser,1,0,8676,101
```

file.ID is the file identifier you assign to SYSS\$CPR. *volser* is the DASD volume serial number. We recommend that you use a file identifier which suggests the CICS report printing function.

Before You IPL

Change your existing ASI procedures before you IPL.

BIM-FAQS/PCS Required Dataset: SYS\$EVT

Introduction

To relieve PDS constraints, BIM-FAQS/PCS has a new PDS for event information--SYS\$EVT. This PDS contains all master and current event definitions, and is used only by BIM-FAQS/PCS.

Starting with Version 4.6 and above, all BIM-FAQS/PCS event information must be moved from the SYS\$MON PDS to the SYS\$EVT PDS. If you are currently running a release of CA-FAQS/PCS prior to version 4.6, you will need to convert to the SYS\$EVT structure once you have installed this release BIM-FAQS/PCS. The procedure is provided later in this chapter.

Size

While the amount of space SYS\$EVT requires will vary depending on the number of events and their definitions, allocate 1800 4K blocks or 14,400 FBA blocks to allow for 500 events. This is equal to 180 tracks of 3380 DASD (10 4K blocks per track).

Specifications

SYS\$EVT is defined as a sequential file. A DASD volume ID must be specified and the logical unit should be omitted. You must include DLBL and EXTENT statements for SYS\$EVT, in system standard labels.

SYS\$EVT: Sample JCL

The following shows a sample of DLBL and EXTENT statements for SYS\$EVT on a 3380 DASD:

```
// DLBL SYS$EVT,'file.ID',99/365  
// EXTENT ,volser,1,0,8676,180
```

file.ID is the file identifier you assign to SYS\$EVT. *volser* is the DASD volume serial number. We recommend you use a file identifier that suggests this PDS's function.

Before You IPL

Change your existing ASI procedures before you IPL.

BIM-FAQS/PCS Optional Dataset: SYS\$LOG

Introduction

The BIM-FAQS/PCS dataset history log facility allows you to access and record open and close requests for any system files. If you plan to use the BIM-FAQS/PCS dataset history log facility, you should define SYS\$LOG, the PDS that serves this facility, before you install BIM-FAQS/PCS. Doing so makes initializing this file easier. You must specify separate SYS\$LOG files if you are running different levels of the VSE operating system or different versions of BIM-FAQS/PCS.

For information about viewing the dataset history log online, see the *BIM-FAQS/PCS Operations Guide*.

For information about using the dataset history log in a batch environment, see the *BIM-FAQS/PCS Implementation Guide*.

Size

While the amount of space SYS\$LOG requires will vary depending on the size of records logged, allocate 600 4K blocks or 4800 FBA blocks to allow for 60 logged records. This is equal to 60 tracks of 3380 DASD (10 4K blocks per track).

Specifications

SYS\$LOG is defined as a sequential file. A DASD volume ID must be specified and the logical unit should be omitted. You must include DLBL and EXTENT statements for your SYS\$LOG, in system standard labels.

SYS\$LOG: Sample JCL

The following shows a sample of DLBL and EXTENT statements for SYS\$LOG on a 3380 DASD:

```
// DLBL SYS$LOG,'file.ID',99/365  
// EXTENT ,volser,1,0,8676,60
```

file.ID is the file identifier you assign to SYS\$LOG. *volser* is the DASD volume serial number. We recommend you use a file identifier that suggests the dataset name logging function.

Before You IPL

Change your existing ASI procedures before you IPL.

Check LIBDEFs

Procedure

Be sure that the appropriate LIBDEFs are added to the BG partition for the BIM-GSS library. Individual *BIM-FAQS* product installations require the use of the BIM-GSS library.

You must place the residence library in the LIBDEF search chain *before* any library that contains earlier versions of *BIM-FAQS* or BIM-GSS.

GSPDSVAM and GSPDSVAE in SVA

For your installation to run correctly, you must refresh the GSPDSVAM and GSPDSVAE phases.

Reinstallation

Backing Up Datasets

***Important!** If you are reinstalling into the same sublibrary, you should have a backup tape just in case you have any problems with the BIM-FAQS installation, so you can restore your residence library or your BIM PDSs to their current status.*

What You Should Back Up

You should back up the following datasets:

- Residence library
- BIM PDSs:
 - SY\$ARC
 - SY\$CPR
 - SY\$EVT
 - SY\$MON
 - SY\$VIO

Sample Jobstream

The following sample jobstream shows how to back up a SY\$xxx dataset using the GSPDSU utility:

```
// JOB BACKUP SY$xxx
// TLBL GSPDSO, 'SY$xxx.BACKUP'
// ASSGN SYS010, cuu
// LIBDEF *,SEARCH=lib.sublib
// EXEC GSPDSU,SIZE=GSPDSU
PDS=xxx, BACKUP
/*
/ &
```

xxx is any PDS ID. cuu is a virtual device address.

For a comprehensive description of the GSPDSU utility, see the BIM-GSS *Installation and Utilities Guide*.

Event Conversion for SYS\$EVT

Introduction

Starting with Version 4.6, all BIM-FAQS/PCS event information must be moved from the SYSS\$MON PDS to the SYS\$EVT PDS. You will need to convert to the SYS\$EVT structure once you have installed BIM-FAQS/PCS.

Procedure

To convert to the SYS\$EVT PDS structure, you need to back up SYSS\$MON and then restore to SYS\$EVT using PCSEVBR. The PCSEVBR utility converts only the master event file.

To back up SYSS\$MON and restore to SYS\$EVT, use the following JCL:

```
// JOB PCSEVBR
// TLBL PCSEVI,'PCSEVBR.BACKUP'
// TLBL PCSEVO,'PCSEVBR.BACKUP'
// ASSGN SYS010,TAPE
// LIBDEF PHASE,SEARCH=(dcmsys.lib,gsvse.lib)
// EXEC PCSEVBR,SIZE=PCSEVBR
BACKUP PDS=MON CLOSE=REW
RESTORE LIST=YES
/*
/ &
```

Recovery Procedures

Introduction

Before you run the installation jobstream, you should know how to recover in case anything goes wrong.

Installing into New Libraries and Creating PDSs

When installing into new libraries and creating new PDSs, you can return your system to the status it had before you ran the installation jobstream by following these steps:

1. Delete the label information from standard labels for each new PDS and restore the label information for each old PDS (if you modified the procedure).
2. Undo any changes you made to the ASI procedures.
3. IPL.

Installing Over Current Code and Current PDSs

When installing over current code and current PDSs, you can return your system to the status it had before you ran the installation jobstream by following these steps:

1. Restore the residence library from your backup tapes.
2. Refresh the GSPDSVAM and GSPDSVAE phases. In the BG partition, enter the following:

```
// LIBDEF lib.sublib (points to current ASO release)
  SET SDL
  GSPDSVAM,SVA
  GSPDSVAE,SVA
/*
```

3. Restore the PDSs from your backup tapes.

Chapter 4

Installation Jobstream

This chapter explains how to interact with the BIM-FAQS installation jobstream in order to install BIM-FAQS/ASO and/or BIM-FAQS/PCS.

Overview

Read Planning Information First

Before you begin the BIM-FAQS installation, see Chapter 3, “Preinstallation and Reinstallation.” The planning information in that chapter is important for a successful installation.

As you complete each planning task, check it off on the checklist in Chapter 2, “Installation and Initialization Checklist.” You should begin the installation only after you have completed tasks 1-8 in this checklist.

Installing BIM-FAQS Using the Installation Jobstream

Introduction

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

Procedure

To load the installation jobstream, follow this procedure:

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. Release IASO by entering:

```
R RDR, IASO
```

IASO is placed in the POWER RDR queue, class O, disposition L.

3. Enter:

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

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

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

IASO displays the following:

```

BG 000 * -----+
BG 000 *   BIM-FAQS VERSION  5.0x 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

```

4. Enter 0. IASO accepts the SETPARM statement and waits.

IASO displays the following:

```

BG 000 0 setparm lib='lib.sublib'
*BG-000 0D16D READY
0
BG 000 +-----+
BG 000 |           BIM-FAQS VERSION  5.0x
BG 000 |
BG 000 | YOU ARE NOW IN THE BIM-FAQS INSTALL GENERATION PROGRAM.
BG 000 | THIS PROGRAM WILL PROMPT YOU FOR INFORMATION ABOUT
BG 000 | WHAT YOU WANT TO INSTALL AND HOW.  IT WILL THEN BUILD
BG 000 | AN INSTALL PROC IN THE RESIDENCE LIBRARY AND THIS
BG 000 | PROCEDURE MAY THEN BE EXECUTED.
BG 000 |
BG 000 +-----+

```

Here the installation jobstream checks whether SYSS\$MON and SYSS\$VIO (and SYSS\$ARC, SYSS\$CPR, SYSS\$EVT, and SYSS\$LOG, if you have defined them) have been defined properly and whether the proper version of BIM-GSS is installed and is active.

If both requirements are met, the installation procedure continues. If either requirement has not been met, the installation is canceled and you receive an appropriate message.

Incorrect Version: If the proper version is not installed, you receive the following message:

```
BG 000 +-----+
BG 000 | DOWNLEVEL VERSION OF BIM-GSS INSTALLED.
BG 000 | VERSION V5.0x OF BIM-FAQS REQUIRES VERSION 5.0x OR
BG 000 | HIGHER OF BIM-GSS BE INSTALLED PRIOR TO INSTALL.
BG 000 +-----+
```

The proper version may not be installed because the GSPDSVAM phase is either not in the SVL or is not of the proper version.

Label Error: If there is an error in a PDS label, IASO issues the following message:

```
BG 000 *-----+
BG 000 *  THERE IS A BAD LABEL FOR SYS$xxx RC=yy
BG 000 *-----+
```

where *xxx* is the PDS ID and *yy* is the return code value. If there is no label, IASO issues the following message:

```
BG 000 *-----+
BG 000 *  THERE IS NO LABEL FOR SYS$xxx
BG 000 *-----+
```

If the label found in standard or partition labels is different from the VTOC entry, IASO issues the following message:

```
BG 000 *-----+
BG 000 *  SYS$xxx LABEL DOES NOT MATCH VTOC ENTRY ON
BG 000 *  DISK.  A FORMAT OF SYS$xxx WILL OCCUR.
BG 000 *-----+
```

In this case, the SYS\$xxx PDS will be formatted.

Note that IASO continues at this point when there are no label processing errors. If you encounter errors in the labels, correct them and rerun the job.

5. Enter **0 cuu**.

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

IASO displays the following:

```
BG 000
BG 000 *-----+
BG 000 *  ENTER TAPE DRIVE CUU FOR INSTALL (IE. 280)
BG 000 *-----+
BG-000
```

6. Enter **0 YES** if the information is correct.

IASO displays the following:

```
0c0
BG 000 *-----+
BG 000 * ARE YOU INSTALLING INTO lib.sublib FROM cuu |
BG 000 * ENTER YES OR CANCEL |
BG 000 *-----+
*BG-000
```

7. Enter **0 xxxx**.

where *xxxx* is either MSHP or LIBR.

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
```

If you respond **0 MSHP**, IASO displays the following.

```
BG 000 +-----+
BG 000 | DO YOU WANT TO INSTALL TO AN ALTERNATE |
BG 000 | HISTORY FILE ENTER YES OR NO |
BG 000 +-----+
```

If you respond **0 YES**, IASO displays the following:

```
BG 000 +-----+
BG 000 | ENTER DLBL FOR THE ALTERNATE HISTORY FILE |
BG 000 +-----+
BG 000 +-----+
BG 000 | ENTER EXTENT FOR THE ALTERNATE HISTORY FILE +
BG 000 +-----+
BG 000 +-----+
BG 000 | ENTER THE ASSGN FOR ALTERNATE HISTORY FILE |
BG 000 +-----+
```

8. Enter **0 YES** to continue with reinstallation. Reply **CANCEL** unless you purposely want to reinstall.

If you entered **0 YES**, IASO checks to see whether you are installing the same version of **BIM-FAQS/ASO** and **BIM-FAQS/PCS** that is already on your system. If it detects that you are, it issues the following message:

```
yes
BG 000 +-----+
BG 000 | REINSTALLING VERSION 5.0x. DO YOU WISH TO CONTINUE? |
BG 000 | ENTER YES OR CANCEL |
BG 000 +-----+
*BG-000
```

9. Enter **0 xxxxxx**.

where *xxxxxx* is RESTORE or BYPASS.

If you enter *RESTORE*, the installation continues. If you enter *BYPASS*, the installation continues but the library restore is bypassed.

IASO displays the following:

```
yes
BG 000 +-----+
BG 000 * DO YOU WISH TO BYPASS RESTORE AND ONLY RUN PROCS'S
BG 000 * ENTER RESTORE OR BYPASS
BG 000 +-----+
*BG-000
```

10. If you are installing BIM-FAQS for the first time, no messages should occur during the installation restore portion. If you receive MSHP messages during this step, see Appendix A.

IASO displays the following:

```
yes
BG 000 *-----+
BG 000 * RESTORE PORTION OF INSTALL COMPLETE
BG 000 *-----+
BG 000 *-----+
BG 000 * BIM-FAQS VERSION 5.0x
BG 000 *
BG 000 * RESTORE THE BIM-FAQS/ASO AND BIM-FAQS/PCS ONLINE FILES
BG 000 *-----+
BG 000 * Update FAQs Online dialogue panels
BG 000 * Update BIM-FAQS/PCS Online dialogue panels
BG 000 *-----+
BG 000 * BIM-FAQS VERSION 5.0x
BG 000 *
BG 000 * RESTORE THE BIM-FAQS/ASO and BIM-FAQS/PCS REXX IMODS.
BG 000 *-----+
BG 000 * CATALOG BIM-FAQS/ASO REXX IMODs
BG 000 * Update PCS REXX EXECs
BG 000 * Installing initial FAQs/CALL data
BG 000 *-----+
BG 000 * BIM-FAQS VERSION 5.0x
BG 000 *
BG 000 * RESTORE THE BIM-FAQS/PCS SAMPLE JOBSTREAMS
BG 000 *-----+
```

11. **Important** - This step applies only to an installation of **BIM-FAQS/ASO 5.0** on a pre-ESA-2.1 system. For VSE/ESA version 2 and above, the jobstream runs the DCMMSGD procedure at this point.

IASO initializes the FAQSMMSG file and loads system messages and help screens. This step does not reset any previous user-defined messages.

```
BG 000 *-----+
BG 000 *                BIM-FAQS VERSION 5.0x
BG 000 *
BG 000 *  RESTORE THE FAQSMMSG VSAM FILE.  THIS FILE IS NEEDED
BG 000 *  FOR BIM-FAQS/ASO FOR VSE/ESA 1.3 OR 1.4.  IT CONTAINS
BG 000 *  ERROR MESSAGES AND HELP SCREENS FOR THE ONLINE
BG 000 *  FACILITY.
BG 000 *
BG 000 *  NOTE: THIS JOBSTEP WILL NOT RESET ANY PREVIOUS
BG 000 *  USER-DEFINED MESSAGES.
BG 000 *-----+
```

If IASO does not find a label for the FAQSMMSG file, it displays the following:

```
BG 000 *-----+
BG 000 *                BIM-FAQS VERSION 5.0x
BG 000 *
BG 000 *  THERE ARE NO LABELS FOR THE FAQSMMSG FILE.
BG 000 *  THE FAQSMMSG FILE RESTORE IS SKIPPED.
BG 000 *-----+
```

12. IASO displays the following messages:

```
BG 000 DCM SYSTEMS - BIM-FAQS/ASO  V5.0x - FAQSMMSG
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 5.0x
BG 000 *
BG 000 *                THAT'S ALL FOLKS . . .
BG 000 *-----+
```

Installing CMS Members

Introduction

If you are a VM user, you can restore the CMS members to your CMS minidisk after you install BIM-FAQS. If you are not a VM user, you can skip this procedure.

Restoring CMS Members

The CMS members are contained at the end of the installation tape. These 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** (*cuu* is the address of the tape drive where the installation tape is mounted.)
- VMFPLC2 REW
- VMFPLC2 FSF *nn*
- VMFPLC2 LOAD * * A

FSF *nn* Values

The following FSF *nn* values are required for the individual BIM-FAQS products.

Product	FSF <i>nn</i> Value
BIM-FAQS/ASO	18
BIM-FAQS/PCS	19

Chapter 5

Initialization

This chapter covers the basics of initializing BIM-FAQS/ASO and BIM-FAQS/PCS.

BIM-FAQS/ASO

Overview

Once you have installed BIM-FAQS/ASO, you must initialize it in order to use its features.

The installation program initializes files with a default configuration and user profile.

GSFAQS and GSFTL

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

Create/Update ASI Activation Steps

To ensure that all of the initialization steps are completed safely, efficiently, and in the proper sequence, incorporate proper job control statements into the BG ASI IPL procedure. This procedure ensures that all required SDL/SVA entries are made, necessary phases are supported by the BIM-FAQS/ASO FTL (Fast Transient Loader), and proper components have been activated. Since the components will be reading data from SYSIPT, be sure to catalog your ASI procedure with DATA=YES.

FTL

Whenever a transient is to be fetched into the LTA (logical transient area) or CRT transient area (pre-VSE/ESA version 2 systems), FTL determines whether or not the required phase is supported in storage. If the phase is resident, it is moved directly to the transient area, eliminating the overhead required to read the phase from the core-image library. Likewise, when a system phase or a phase of your own is supported by FTL, FTL moves the phase directly to the specified load address.

Some of the more common phases that can be made resident are

- Job control phase
- \$\$A ERP transients
- Frequently referenced user routines

For more information about the FTL feature of BIM-FAQS/ASO, see the BIM-FAQS/ASO *User Guide*.

Sample Jobstream

The following is a sample jobstream for initializing BIM-FAQS/ASO. This jobstream simplifies BIM-FAQS/ASO initialization by eliminating the SDL swap and SET SDL requirements.

This jobstream also improves overall performance by supporting common job control phases in FTL MOVE mode. For pre-VSE/ESA version 2 systems, use FAQSASO1 instead of FAQSASO as your GSFAQS STARTUP parameter.

```
// JOB jobname
// LIBDEF *,SEARCH=lib.sublib
* DEFINE BIM-FAQS TO VSE
// EXEC GSPRDL,SIZE=256K
/*
* START FTL
// EXEC GSFTL,SIZE=256K
RDL=CREATE
FAQS
FTLLIST
RDL=END
/*
* INITIALIZE GSFAQS
// EXEC GSFAQS,SIZE=256K
STARTUP FAQSASO
/*
/ &
```

STARTUP File

The jobstream above is just a sample to get you started. It uses startup file *FAQSASO* to initialize BIM-FAQS/ASO. The startup file loads the BIM-FAQS/ASO command file, message definition file, and console PF-key file.

Important! We recommend creating your own startup file by copying and renaming the startup file supplied with the installation tape. This is recommended because the *FAQSASO* file is reloaded during installation and any changes to it will be lost.

Tailoring BIM-FAQS/ASO

Using the STARTUP statement in the startup jobstream is the simplest way to initialize BIM-FAQS/ASO. However, all the *FAQSASO* file's default information may not be relevant for your installation.

Once you've started a BIM-FAQS/ASO online interface, you should use the online panels to modify/configure the message and command files for your system. If you are running pre-ESA 2.1, you'll also want to modify/configure the startup console PF key files for your system.

Online Interfaces

Introduction

Once you have initialized BIM-FAQS/ASO, you must initialize an online interface for it. BIM-FAQS/ASO can use any of the following online interfaces:

- VM/CMS (VMCF and IUCV)
- CICS
- VTAM/BTAM/XPCC
- ICCF

IUCV will run only on an ESA 2.1 system and above.

FAQSMAIN

All of the online interfaces supported by BIM-FAQS/ASO require FAQSMAIN to be running. FAQSMAIN is a Terminal Cross Partition Communication program (FAQSTXPC) used to communicate with other programs running as online interfaces. FAQSMAIN can run in a dynamic or a static partition, as a main task or a subtask.

Currently, FAQSMAIN supports:

- FAQSVMX (VMCF)
- FAQSIUX (IUCV)
- FAQSICX (ICCF)
- DCMTDRIV (VTAM/BTAM/CICS/XPCC)

Partition GETVIS

Your BIM-FAQS/ASO interface requires anywhere from 300K to 800K of partition GETVIS, depending on your configuration.

FAQSMAIN saves partition GETVIS. For example, if FAQSMAIN is running in partition C3, DCMTDRIV is running in partition Z2, and FAQSVMX is running in partition F8, only the FAQSMAIN partition will use GETVIS for CDLOADED phases. The only partition GETVIS used for DCMTDRIV and FAQSVMX is for terminal buffers and TWAs (Temporary Work Areas).

DCMTDRIV

DCMTDRIV should run in the same partition as FAQSMAIN. Otherwise, SDF resources would be loaded in a couple of partitions at once.

Running FAQSMAIN as a Main Task

Execute the following to run FAQSMAIN as a main task:

```
// LIBDEF *,SEARCH=lib.sublib
// EXEC FAQSMAIN,SIZE=FAQSMAIN
```

Running FAQSMAIN as a Subtask

Use DCMTASK to subtask FAQSMAIN under a long-running task. If possible avoid subtasking it under JCLSCHED or FAQSAO.

Terminating FAQSMAIN

To terminate FAQSMAIN, enter **FAQS SHU,Y,MAIN** from FAQs Online or terminate the main task, if FAQSMAIN is a subtask.

FAQSMAIN can be activated multiple times. However, only one FAQSMAIN will be communicating with the active interfaces at one time. If the active FAQSMAIN is terminated, communication with the active interfaces will continue with the next FAQSMAIN that is activated.

VM/CMS Interface

The VM/CMS interface uses either VMCF or IUCV to execute BIM-FAQS/ASO under VM.

VMCF can run as a main task or subtask. To initialize VMCF as a main task, execute FAQSVMX in each VSE machine for which support is desired. (FAQSMAIN must also be running for FAQSVMX to run.) Execute the following:

```
// JOB FAQSVMX
// LIBDEF *,SEARCH=lib.sublib
// SETPFIX LIMIT=nnnK
// EXEC FAQSVMX,SIZE=FAQSVMX,PARM='USERS=nn'
/*
/ &
```

IUCV can run only on VSE/ESA version 2 and above, and there only as a main task. To initialize IUCV, execute FAQSIUX in each VSE machine for which support is desired. (FAQSMAIN must also be running for FAQSIUX to run.) Execute the following:

```
// JOB FAQSIUX
// LIBDEF *,SEARCH=lib.sublib
// SETPFIX LIMIT=nnnK
// EXEC FAQSIUX,SIZE=FAQSIUX,PARM='USERS=nn'
/*
/ &
```

SETPFIX enables VMCF or IUCV to run in a dynamic partition. nnnK is the amount of real storage required for the partition. 24K of real is required for each active user.

USERS=nn is the number of users to allow online at one time. The default is 10. For VMCF, the maximum number of users is 40. For IUCV, there is no maximum. During startup, the message MAXIMUM INTERFACE USERS: nn is displayed.

Terminating IUCV or VMCF

Both the VMCF and IUCV interfaces can be shut down from FAQs Online by

- Entering **FAQS SHU,Y** from the BIM-FAQS/ASO console
- Requesting a BIM-FAQS/ASO VM shutdown from CMS

To terminate IUCV or VMCF from FAQs Online, enter one of the following:

```
FAQS SHU,Y           Shut down immediately
FAQS SHU,N           Shut down, but let tasks end
```

To terminate IUCV or VMCF from the system console, enter one of the following:

```
PRTY CP MSG vsemachine FAQS SHU,Y
PRTY CP MSG * FAQS SHU,Y
MSG pid
```

You can use MSG pid to terminate VMCF if VMCF is running as a main task. You can always use MSG pid to terminate IUCV, since IUCV always runs as a main task.

pid is a partition ID. For example, if VMCF is running in F5, you can enter MSG F5 to terminate it.

CICS Interface

DCMTDRIV and DCMOCIXP can be used with FAQSMAIN for the CICS interface. DCMTDRIV must be running for DCMOCIXP to function. You can run DCMTDRIV as a subtask or a main task, in a static or dynamic partition. To run DCMTDRIV as a main task, execute the following:

```
// JOB DCMTDRIV
// LIBDEF *,SEARCH=lib.sublib
// EXEC DCMTDRIV,SIZE=DCMTDRIV
/*
/ &
```

To terminate the main task, message the partition.

For more information about DCMTDRIV and DCMOCIXP, see the BIM-GSS *Installation and Utilities Guide*.

Note: Previous releases of BIM-GSS used DCMOTDRV to control the CICS interface. This code was single-threaded resulting in response time problems. BIM has solved this problem by adding CICS interface support to DCMTDRIV, resulting in less storage requirements and better response time. DCMOTDRV is no longer distributed and should not be used.

CICS Table Modifications

To initialize the BIM-FAQS/ASO CICS interface, make the following CICS table modifications:

CICS Table	Description and Entry
PPT	Minimum entry is: <code>DFHPPT TYPE=ENTRY, PROGRAM=DCMOCIXP, PGMLANG=ASSEMBLER, RES=YES</code>
PCT	Minimum entry is: <code>DFHPCT TYPE=ENTRY, PROGRAM=DCMOCIXP, TRANSID=FAQS</code>
TCT	If extended color capabilities are desired, generate the terminal as a color terminal using the FEATURE parameter in the TCT for the terminal. Specify the COLOR, EXTDS, and HIGHLIGHT options. Enter the following: <code>DFHTCT TYPE=TERMINAL, TRMIDNT=L2D0, LVUNIT=1, TRMSTAT=TRANSCEIVE, XTIOAL=160, TCTUAL=32, FEATURE=(COLOR, EXTDS, HIGHLIGHT)</code>

VTAM/BTAM Interface

DCMTDRIV also provides the interface between VTAM (or BTAM) and BIM-FAQS/ASO. DCMTDRIV can run standalone in a batch partition or as a subtask of VTAM.

BIM-FAQS/ASO requires you to have FAQSMAIN running on your system.

To initialize the VTAM interface, follow these steps:

1. Add the BIM-FAQS/ASO library to the VTAM partition search chain. Perform this step only if DCMTDRIV is to run as a subtask of VTAM.
2. Define the BIM-FAQS/ASO application major node. Add the following statement to your VBUILD command list.

```
applname APPL ACBNAME=DCMTDRIV,EAS=5
```

applname can be any name you choose.

If you have more than one VSE system with shared VTAM, you *must* use a different application node name for each system. For example, you might choose FAQSDEV as the *applname* for one system, but FAQSPROD as the *applname* for another.

You may select the applname to be used with the APPLID= parameter during DCMTDRIV startup. The default applname is DCMTDRIV. For more information, see the BIM-GSS *Installation and Utilities Guide*.

3. Enable the interface.

To enable DCMTDRIV as a standalone interface, execute the following JCL in a batch partition. Be sure a LIBDEF for the BIM-FAQS/ASO and VTAM sublibraries is in effect.

```
// JOB DCMTDRIV
// LIBDEF *,SEARCH=lib.sublib
// EXEC DCMTDRIV,SIZE=DCMTDRIV
/*
/ &
```

The following message should appear on your system console:

```
GST002I INITIATED DCMTDRIV Vn.nx mm/mm/yy A=DCMTDRIV
```

Vv.rr is the BIM-FAQS/ASO version and release. *dd/mm/yy* is the day, month, and year. *hh.mm* is the time.

4. Log on to DCMTDRIV with the following command:

```
LOGON APPLID(DCMTDRIV),DATA(parms)
```

The DATA parms can be one or more of the following: APL|NOAPL, COLOR|NOCOLOR, USER=, MODx, and P=. If used, P= must be the last parameter specified.

5. After VTAM has processed your logon and passed it to DCMTDRIV, the DCMTDRIV Main Menu is displayed. Select option 2 for BIM-FAQS/ASO Online. The following message appears on your terminal:

```
GST004I ..... SESSION ESTABLISHED
```

ICCF Interface

BIM-FAQS/ASO runs directly under ICCF in an ICCF interactive partition. Enter **\$FAQS** in an ICCF session to initialize the ICCF interface.

To ensure that ICCF allocates sufficient problem program area and partition GETVIS in the ICCF interactive partition, create an ICCF procedure to reserve the proper storage.

Sample ICCF Procedure

The following sample procedure ensures sufficient problem program area and sufficient partition GETVIS for the BIM-FAQS/ASO ICCF application in the ICCF interactive partition:

```
/OPTION GETVIS=P-20K  
/LOAD FAQSICK
```

If you need terminal model 3, 4, or 5 color support from the ICCF transaction, set the following UPSI switches:

Color Support Required	Set UPSI Switch
Model 5	// UPSI 1000xxx
Model 4	// UPSI 0100xxx
Model 3	// UPSI 0010xxx
Extended color	// UPSI 0001xxx

ICCF Restrictions

The BIM-FAQS/ASO timed redisplay function is not supported under ICCF. You must press ENTER to update the current console display.

REXX Support

Introduction

If you want to execute BIM-FAQS/ASO REXX IMODs, the FAQSAO task must be active in a partition. FAQSAO can run as a main task or subtask of a long-running job such as POWER, VTAM, CICS, or **BIM-FAQS/PCS**'s JCLSCHED.

REXX programs can be executed from a console command, an SMSG, an AO MSG ACTION command, or an online command. For more information about executing REXX programs, see the BIM-FAQS/ASO *User Guide*.

Running FAQSAO as a Main Task

To run FAQSAO as a main task, use the following JCL statement:

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

DCMTASK Statement

To run FAQSAO as a subtask, use the DCMTASK statement:

```
// EXEC DCMTASK,SIZE=mainsz,PARM='main[#sub/subparms][,main_parms]'
```

mainsz is what is required to run the program specified as the main task. *sub* is the name of the specified subtask. *subparms* is one or more subtask parameters. *main_parms* is main task parameter data. Apostrophes (' ') around the PARM operands are required.

The following rules apply:

You can specify any number of subtasks.

You can specify main task parameters. To do so, place a comma after the last subtask listed, followed by main task parameter data.

For more information about DCMTASK, see the BIM-GSS *Installation and Utilities Guide*.

Important! You can subtask FAQSAO under POWER or VTAM. However, BIM strongly discourages this practice.

To subtask FAQSAO under POWER or VTAM, execute one of the following statements:

```
// EXEC DCMTASK,SIZE=nnnn,PARM='DTRPOWR#FAQSAO  
// EXEC DCMTASK,SIZE=nnnn,PARM='ISTINCVT#FAQSAO
```

nnnn is the current size of the corresponding program.

VTAM Considerations

To run FAQSAO as a subtask of VTAM, you must add a LIBDEF statement for the FAQS library in VTAM startup, and you must use the following VTAM statement:

```
F NET ATTACH, ID=FAQSAO
```

This statement may not run with standard VTAM GETVIS allocations, so be sure that you have sufficient GETVIS.

Running Subtasks Under FAQSAO

The following JCL statement can be used to set up subtasks for FAQSAO:

```
// EXEC DCMTASK,SIZE=FAQSAO,PARM='FAQSAO#subtask[#subtask...]'
```

subtask is any subtask you want to run under FAQSAO.

The same rules apply for running a task as a subtask of FAQSAO as apply for running FAQSAO itself as a subtask.

FAQSVSPO

The FAQSVSPO task that allows you to use the REXX VTAM command must run in the same partition as FAQSAO (see the BIM-FAQS/ASO *User Guide*).

To make sure that FAQSAO and FAQSVSPO are running in the same partition, use the following JCL statement:

```
// EXEC DCMTASK,SIZE=FAQSAO,PARM='FAQSAO#FAQSVSPO'
```

To run FAQSVSPO as a subtask of VTAM, use the following VTAM statement:

```
F NET ATTACH, ID=FAQSVSPO
```

Before you run FAQSVSPO as a subtask of VTAM, you must add an application ID. Add the following statement to your VBUILD command list:

```
FAQSVSPO APPL AUTH=(SPO)
```

Automated Systems Operation Files

GSFAQS STARTUP File

From the SYSSVIO PDS, the GSFAQS STARTUP file pulls in the command file, the message definition file, and the console PF-key file. By default, all these files are named FAQSASO.

Label

You should copy and rename the command file, message definition file, and console PF-key file loaded with the STARTUP command. Subsequent installations cause a new FAQSASO command file, message definition file, and console PF-key file to be loaded. These new files overlay any changes you made to the default files.

Command File

Initializing a command file loads it into the SVA and makes it the current definition.

If you ran the jobstream listed in the beginning of this chapter, the default command file is already loaded. From the Console Command Definitions panels, you can define your own console commands and create your own command files. For detailed information about the Console Command Definitions panels, see the *BIM-FAQS/ASO User Guide*.

Message Definition File

Initializing a message definition file loads it into the SVA and makes it the current definition.

Message reply, suppression, masking, routing, and retention can be initialized by using the GSFAQS STARTUP command in combination with the Message Definitions panels.

If you ran the jobstream listed in the beginning of this chapter, the default message definition file is already loaded. From the Message Definitions panels, you can define your own messages and create your own message definition files. For detailed information about the Message Definitions panels, see the *BIM-FAQS/ASO User Guide*.

Console PF-Key File

The following information applies only to pre-ESA 2.1 installations.

Initializing a console PF-key file loads it into the SVA and makes it the current definition.

Your console PF-key definitions can be initialized by using the GSFAQS STARTUP command in combination with the Console PFKEY Definitions panel.

If you ran the jobstream listed in the beginning of this chapter, the default console PF-key file is already loaded. You should go to the Console PFKEY Definitions panel to specify the PF-key definitions you want. For detailed information about the Console PFKEY Definitions options, see the BIM-FAQS/ASO *User Guide*.

Security

Introduction

To take advantage of the security feature of BIM-FAQS/ASO, you must first initialize it. If you do not initialize security before you start accessing BIM-FAQS/ASO online, you will not see all the AO options available with BIM-FAQS/ASO.

By default the AO command will cause a blank AO menu panel to be displayed. Security must be enabled for the AO options before they will be displayed on the panel.

Access and Startup

Take the following steps to access and initialize the BIM-FAQS/ASO security feature:

1. Enter **SCTY** from the BIM-FAQS/ASO command line.
2. Define a user as a FAQS administrator. If you are defining BIM-FAQS/ASO security for the first time, the first user security profile you create should be an administrator profile.

BIM-FAQS/ASO security administrators are authorized to create or modify user profiles. To create a BIM-FAQS/ASO security administrator, enter **X** in the ADMIN field for a selected user ID.

3. Turn security on for the user configuration you defined in Step 2. Return to the panel you accessed in Step 1 and enter:

X in the CONFIG input field. The panel you access allows you to turn on or off various elements of a user configuration.

X in the USE SCTY ENTRY NOT ONLY PROFILE input field.

For additional information about configuring security, see the BIM-FAQS/ASO *Online User Guide*.

User Profiles

User profiles are created online using the security displays. To create a user profile, move the cursor to the first USER-ID input field on the panel you accessed with the *SCTY* command, type **A**, and press ENTER. This accesses the online security configuration displays.

For detailed information about user profile panels, see the BIM-FAQS/ASO *Online User Guide*.

BIM-FAQS/PCS

Overview

BIM-FAQS/PCS initialization is very similar to, but not the same as, BIM-FAQS/ASO initialization. This section presents BIM-FAQS/PCS initialization considerations.

JCLXCU

JCLXCU is a BIM batch utility that enables you to initialize BIM-FAQS/PCS

Sample Jobstream

The following is a sample jobstream for initializing BIM-FAQS/PCS. For a list of the ENABLE parameters for JCLXCU, see the BIM-FAQS/PCS *Implementation Guide*.

```
// JOB jobname
// LIBDEF *,SEARCH=lib.sublib
* START BIM-FAQS/PCS
/*
// EXEC JCLXCU,SIZE=JCLXCU
ENABLE LOAD=N
/*
/ &
```

If BIM-FAQS/ASO is not installed and the IMOD feature of GSS is required, make sure that the following phases are set in the SVA.

```
$FAQS, SVA
$FAQSAO, SVA
```

The following SVA phases can be added to the SVA to save on partition storage.

```
GSAOGEM, SVA
JCLPOST, SVA
PCSADR, SVA
PCSSUC, SVA
```

The following SVA phases are required if BIM-FAQS/ASO is not being used.

```
GSPDSVAM, SVA
GSPDSVAE, SVA
```

Online Interfaces

Introduction

Once you have initialized BIM-FAQS/PCS, you need to initialize an online interface. You can initialize one or more of the following interfaces for BIM-FAQS/PCS. These interfaces allow easy access to BIM-FAQS/PCS if you do not have BIM-FAQS/ASO installed.

Interface	Associated Program(s)
VM/CMS	DCMOCMS
CICS	DCMOCIXP and DCMTDRIV
VTAM/BTAM	DCMTDRIV
ICCF	N/A

Important! *If you also have BIM-FAQS/ASO installed and initialized, you do not need to initialize an additional online interface for BIM-FAQS/PCS.*

VM/CMS

DCMOCMS is a CMS module that allows you to manage panels and to access and update PDSs from CMS without a VSE machine. DCMO EXEC allows you to execute DCMOCMS and to set up a BIM-FAQS/PCS CMS interface.

CICS

DCMTDRIV must be running for DCMOCIXP to function.

To access BIM-FAQS/PCS directly from CICS, make these CICS PCT and PPT entries:

```
DFHPCT TYPE=ENTRY,TRANSID=PCS,PROGRAM=DCMOCIXP
DFHPPT TYPE=ENTRY,PROGRAM=DCMOCIXP,PGMLANG=ASSEMBLER,RES=YES
```

If PCS is your PCT TRANSID entry and you enter *PCS* from CICS, you'll go directly to the BIM-FAQS/PCS online panels. However, if you set TRANSID=DCMO in the DFHPCT statement, entering *DCMO* takes you directly to the BIM CICS Online/Product Interface panel.

For more information about DCMOCIXP, DCMTDRIV, the CICS Online/Product Interface panel, and the products you can access from it, see the BIM-GSS *Installation and Utilities Guide*.

VTAM/BTAM

The DCMTDRIV program provides the interface between VTAM (or BTAM) and BIM-FAQS/PCS. DCMTDRIV can run standalone in a batch partition or as a subtask of VTAM.

For information about DCMTDRIV, see the BIM-GSS *Installation and Utilities Guide*.

JCLSCHEd

Introduction

For BIM-FAQS/PCS to schedule events, the scheduler, JCLSCHEd, must be running. You can start JCLSCHEd in any one of the following ways:

- A main task in any partition
- A subtask of CICS
- A subtask of another task

As Main Task

If you want to subtask any of the BIM-FAQS/ASO interfaces under the scheduler, specify the appropriate commands in the JCLSCHEd.CTL file in the SYS\$MON PDS. For more information, see the BIM-FAQS/PCS Implementation Guide.

Use the following JCL to activate the scheduler as a main task in a batch partition. This is the recommended method of activating the scheduler.

```
// JOB JCLSCHEd
// LIBDEF *,SEARCH=lib.sublib
// EXEC JCLSCHEd,SIZE=JCLSCHEd
/*
/ &
```

This JCL causes an outstanding reply ID on the console, enabling you to communicate with the scheduler. For example, you can respond to this reply ID by requesting that jobs be generated on demand.

As CICS Subtask

You can activate the scheduler as part of the CICS startup by entering the appropriate CICS table entries. To subtask JCLSCHEd under CICS, you must add the PCSPLT program to the PCS, PPT, and PLT tables:

```
DFHPCT TYPE=ENTRY,TRANSID=PCSS,PROGRAM=PCSPLT
DFHPPT TYPE=ENTRY,PROGRAM=PCSPLT,PGMLANG=ASSEMBLER
DFHPLT TYPE=ENTRY,PROGRAM=PCSPLT,PGMLANG=ASSEMBLER
```

Subtasking BIM-FAQS/PCS under CICS is not recommended if you are on VSE/ESA 1.3 or above.

As Subtask of Main Task

You can activate the scheduler as a subtask of a main task by using the DCMTASK program. Use the following JCL to run the scheduler as a subtask of DCMTDRIV:

```
// JOB DCMTASK
// LIBDEF *,SEARCH=lib.sublib
// EXEC DCMTASK,SIZE=DCMTDRIV,PARM='DCMTDRIV#JCLSCHED'
/ &
```

For more information about DCMTASK, see the *BIM-GSS Installation and Utilities Guide*.

JCLSCHEd Commands

Introduction

Using scheduler control commands, you can initiate the following system interfaces through the console or the JCLSCHEd.CTL PDS member:

- Online interfaces for *BIM-FAQS/ASO*
- The *BIM-FAQS/ASO* REXX processor
- Any other subtaskable program (\$)
- The BIM-ALERT/VSE logger task

For information about the JCLSCHEd.CTL PDS member, see the *BIM-FAQS/PCS Implementation Guide*.

***BIM-FAQS/ASO* and *BIM-FAQS/PCS* REXX Processor**

The &FAQSAO command initiates the FAQSAO program, which allows REXX IMODs to run.

The &AO command uses the scheduler to run IMODs, executing the REXX procedure *memname*. Typically, the &AO *memname* command is entered through the outstanding replid.

REXX procedures executed using the &AO *memname* command do not generate POWER output. If you want POWER output, call REXX procedures from an *BIM-FAQS/PCS*-generated job.

All BIM-supplied REXX procedures reside in the SYSSMON PDS with data type *OAL*. You can search SYSSMON as well as a user-defined PDS when you are looking for an IMOD to execute or edit. *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.

For more information about &FAQSAO and &AO, see the *BIM-FAQS/PCS Implementation Guide*.

IUCV

The \$FAQSIUX command initiates the IUCV interface. If the interface is already active, the request is bypassed.

VMCF

The \$FAQSVMX command initiates the VMCF interface. If the interface is already active, the request is bypassed.

Attaching Subtasks

To attach and load a subtask, prefix the appropriate scheduler command with \$. For example, \$DCMTDRIV attaches the DCMTDRIV phase.

BIM-ALERT/VSE Logger Task

Use the &ALERTVSE command to initiate the logger task for BIM-ALERT/VSE. If the logger task is already active, the request is bypassed.

CMS Programs

Tailoring CMS EXECs

If you are installing BIM-FAQS/PCS, examine the DCMO and PCSCMS EXECs. Update the 'call get_disk' statements with the appropriate disk information for your PDSs. Update the 'do_filedef' statements for the SYSS\$MON, SYSS\$VIO, SYSS\$LOG, and SYSS\$EVT PDSs.

DCMO EXEC

The DCMO EXEC provides a native CMS online interface to the BIM-FAQS/PCS editor and online system and to the CA-FLEE online system. This interface does not require any VSE storage.

PCSCMS EXEC

The PCSCMS EXEC provides you with several BIM-FAQS/PCS batch programs that execute in native CMS. Refer to the PCSCMS EXEC itself for more details on the programs.

Appendix A

MSHP Information

This appendix contains MSHP information relevant to BIM-FAQS Product Names and Component IDs.

Product Names

The product names used for the BIM-FAQS components consist of an abbreviation of the component name and the version modification level of the component in the following format:

ECMxxx
EVSxxx
FVRxxx
MCTxxx
SARxxx

For example, the product name for BIM-FAQS Version 5.0A, ESA 2.1, is:

FAQ50A

Component IDs

The MSHP component IDs for BIM-FAQS consist of the prefix 2885, the product abbreviation, two zeros, and the version modification level of the component in the following format:

2885-ECM-00-xxx
2885-EVS-00-xxx
2885-FVR-00-xxx
2885-MCT-00-xxx
2885-SAR-00-xxx

For example, the component ID for BIM-FAQS Version 5.0A, ESA 2.1, is:

2885-FAQ-00-50A

The component ID for BIM-FAQS Version 5.0A, pre-ESA 2.1, is:

2885-FQ1-00-50A

Residence Library

Definition

The *residence library* is the library that you specify during installation. If you move an MSHP-controlled product, you must also change its residence information. For example, if you copy the sublibrary to a new or production library and do not change the residence library, any PTFs that you apply will go to the old library.

The following sample jobstream shows how to change a residence library definition:

```
// JOB MSHP
// EXEC MSHP,SIZE=720K
   RESIDENCE PRODUCT=GSS462 PRODUCTION=lib.sublib
   RESIDENCE PRODUCT=GSS50A PRODUCTION=lib.sublib
/*
/ &
```

PTF Information

BIM-FAQS PTFs are kept in MSHP format. Applied PTFs are kept in the history file and are applied to the residence library.

APAR Numbers

BIM-FAQS APAR numbers are in the following format:

ppnnnnn

pp is a two-character prefix. If the APAR is a program fix, the prefix is *GS*. If the APAR is an optional program fix, the prefix is *GO*. *nnnnn* is a five-digit APAR number. For example, a BIM-FAQS program fix could have the following APAR number:

GS00001

A sample MSHP residence library entry for APAR GS50001 is as follows:

```
// EXEC MSHP,SIZE=720K
   CORRECT 2885-FQG-00-50A : GS50001
   AFFECT PHASE=ASOPHASE
   ALTER 382E 00000000:12345678
   RESOLVES 'EXPLANATION FOR PTF'
/*
```

LIBR and MSHP

Each library member has a flag that indicates whether it is controlled by MSHP. Members that are controlled by MSHP may be deleted from a library using LIBR with no special requirements. If you wish to copy, move, or link an MSHP-controlled member, you must use *PARM='MSHP'* on the EXEC statement for LIBR and LNKEDT. The following sample EXEC statements show how to specify the MSHP parameter:

```
// EXEC LIBR,PARM='MSHP'  
// EXEC LNKEDT,PARM='MSHP'
```

MSHP Installation Error Messages

Introduction

If you are installing any ASO product for the first time, you should not see any IASO MSHP error messages. However, if you are reinstalling, you may see an error message under one or both of the following conditions:

- You reinstalled a BIM-FAQS product with common code into a different library.
- You tried to run multiple releases of a BIM-FAQS product on your system.

Messages and Problem Solutions

Listed below are some common MSHP installation error messages and suggested actions you can take to correct the corresponding installation problems:

1. If you have previously installed any BIM products that contained common code into a different library, IASO may display one or more of the following:

```
BG 000 M240I YOU ARE RE-INSTALLING. TARGET
BG 000 SPECIFICATIONS ARE IGNORED
BG 000 M235I INSTALLATION WILL BE DONE AS
BG 000 FOLLOWS:
BG 000 BIMCOL.FQ50AEx INTO PRD2.PROD
BG 000 M089D ENTER "GO" OR "CANCEL" TO
BG 000 TERMINATE
*BG 000
0 cancel
```

To correct this problem, enter **0 CANCEL** because you must delete old MSHP history information if you want to reinstall into a new library. If you want multiple release levels in your system during a test period, you can rerun the installation with **LIBR**.

2. If IASO displays the following:

```
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 COM342. ENTER
BG 000 "DELETE" OR "KEEP"
*BG 000
0 keep
```

Enter 0 *xxxxxx*, where *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.

3. If IASO displays the following:

```
BG 000 M234I FOLLOWING
BG 000 SUPERSEDED/OBSELETED PRODUCTS WILL
BG 000 BE DELETED:
BG 000 COM341 COM342
BG 000 M089D ENTER "GO" TO CONTINUE OR
BG 000 "CANCEL" TO TERMINATE
*BG 000
0 go
```

4. Enter **0 GO** to continue or **0 CANCEL** to terminate the installation.

Appendix B

Optional Features

This appendix covers some of the major optional features of BIM-FAQS/ASO and BIM-FAQS/PCS.

Overview

Optional Features

You can initialize the following features at any time:

- BIM-FAQS/CALL
- BIM-CPR (CICS Print Report)
- Sysout archival facility
- Dataset history log

BIM-FAQS/CALL

BIM-FAQS/CALL extends the automation capabilities of BIM-FAQS/ASO and BIM-FAQS/PCS. BIM-FAQS/CALL communicates with the host via its two main communications features:

PC-based external notification feature--which contacts you immediately when a system error or user-defined condition occurs.

Helpdesk feature--which enables you to call BIM-FAQS/CALL and initiate user-host interactions via a touch-tone phone.

BIM-FAQS/CALL has a mainframe component and a PC component. The mainframe component is installed as part of BIM-FAQS/ASO and BIM-FAQS/PCS. The PC component must be installed separately.

For more information about BIM-FAQS/CALL, see the BIM-FAQS/CALL *User's Guide*.

Installing the BIM-CPR (CICS Print Report) Facility

Introduction

BIM-CPR (CICS Print Report) enables you to print reports on CICS printers. Reports are spooled by BIM-FAQS/ASO into BIM-CPR's print queue. Once the reports are in the queue, you can use BIM-CPR's online panels to control where, when, and how the reports are printed. You can print POWER reports generated by the system or screen shots generated by BIM-CPR.

For more information about BIM-CPR, see the BIM-CPR *User's Guide*.

Screen Print Facility

With BIM-CPR's screen print facility you can print a CICS screen on a real, virtual, or CICS printer. You will use BIM-CPR's online panels to set up the screen print facility. Once set up, a user can press a PF key while on a CICS screen and take a *picture* of the screen. The screen image gets spooled to the POWER LST queue where it can be printed on a real or virtual printer or re-routed to BIM-CPR using BIM-FAQS/ASO. BIM-CPR can then print it on a CICS printer.

Required CICS Table Entries

Before accessing BIM-CPR, you must specify the following CICS table entries in every CICS where BIM-CPR will be used to direct output to printers:

```
DFHPCT      TYPE=ENTRY , TRANSID=FAQW , PROGRAM=FAQSCICW , TWSIZE=256
DFHPCT      TYPE=ENTRY , TRANSID=FAQP , PROGRAM=FAQSCICP , TWSIZE=256
DFHPCT      TYPE=ENTRY , TRANSID=FAQI , PROGRAM=FAQSCICI
DFHPCT      TYPE=ENTRY , TRANSID=FAQE , PROGRAM=FAQSCICE
DFHPPT      TYPE=ENTRY , PROGRAM=FAQSCICW , PGMLANG=ASSEMBLER
DFHPPT      TYPE=ENTRY , PROGRAM=FAQSCICP , PGMLANG=ASSEMBLER
DFHPPT      TYPE=ENTRY , PROGRAM=FAQSCICI , PGMLANG=ASSEMBLER
DFHPPT      TYPE=ENTRY , PROGRAM=FAQSCICE , PGMLANG=ASSEMBLER
```

The FAQI and FAQE transactions allow you to manually initiate and terminate BIM-CPR. These transactions are especially helpful during testing when you may need to change definitions often.

Screen Print Table Entries

You must define the following CICS table entries to use the screen print facility:

```
DFHPCT TYPE=ENTRY,TRANSID=FAQQ,PROGRAM=FAQSCICQ,TWASIZE=256
DFHPCT TYPE=ENTRY,TRANSID=FAQT,PROGRAM=FAQSCICT
DFHPPT TYPE=ENTRY,PROGRAM=FAQSCICQ,PGMLANG=ASSEMBLER
DFHPPT TYPE=ENTRY,PROGRAM=FAQSCICT,PGMLANG=ASSEMBLER
DFHPPT TYPE=ENTRY,PROGRAM=FAQTCIXT,PGMLANG=ASSEMBLER
```

Sysout Archival Facility

Introduction

Sysout archival allows you to archive end-of-job reports to a PDS and access them online. The sysout archival feature helps provide necessary problem-solving and scheduling-dependence research information.

Sysout archival requires the SYSS\$ARC file.

Defining SYSS\$ARC

For information about defining SYSS\$ARC, see Chapter 3, “Preinstallation and Reinstallation.”

Formatting SYSS\$ARC

Before you can use SYSS\$ARC, it must be formatted with the GSPDSU FORMAT function. Execute the following jobstream to format SYSS\$ARC. If you have defined SYSS\$ARC before installing BIM-FAQS, it should already have been formatted.

```
// EXEC GSPDSU,SIZE=GSPDSU  
FORMAT=ARC,NDIR=20  
/*
```

Startup File

The BIM-FAQS/ASO startup file, FAQSASO, initializes the Sysout Archival Facility. Using the startup file is the preferred method of starting the Sysout Archival Facility.

Dataset History Log

Introduction

The dataset history log allows you to access and track open and close requests for PDSs. You can access this feature online through BIM-FAQS/PCS.

The dataset history log requires the SYSS\$LOG PDS.

Defining SYSS\$LOG

For information about defining SYSS\$LOG, see Chapter 3, “Preinstallation and Reinstallation.”

Formatting SYSS\$LOG

Before you can use SYSS\$LOG, it must be formatted with the GSPDSU FORMAT function. Execute the following jobstream to format SYSS\$LOG. If you have defined SYSS\$LOG before installing BIM-FAQS, it should already have been formatted.

```
// EXEC GSPDSU,SIZE=GSPDSU
FORMAT=LOG,NDIR=20
/*
```

PCSSRV

To initialize the dataset history log facility, you must run PCSSRV. PCSSRV can run as a main task or subtask.

PCSSRV As Main Task

To run PCSSRV as a main task, use the following JCL statement:

```
// EXEC PCSSRV,SIZE=PCSSRV
```

PCSSRV As Subtask

To subtask PCSSRV under the scheduler, add an AUTO \$PCSSRV statement in the JCLSCHED.CTL file in the SYS\$MON PDS:

```
AUTO $PCSSRV
```

To run PCSSRV as a subtask of any main task, use the following jobstream:

```
// LIBDEF *,SEARCH=lib.sublib  
// EXEC DCMTASK,SIZE=mainsize,PARM='maintask#PCSSRV'  
/*
```

mainsize is the main task size. *maintask* is the main task that PCSSRV runs under.

Appendix C

Pre-3.41 Releases: Reinstallation Considerations

This appendix presents reinstallation considerations for pre-3.41 releases of BIM-FAQS/ASO and BIM-FAQS/PCS.

BIM-FAQS/ASO Password Conversion

Introduction

You need to convert security if you are running a version prior to 3.41 and are not moving to ESA 2.1.

You must convert your old PW phase or VSAM passwords to the current password format with the FAQUTIL utility. Passwords must be converted if you are installing over Version 2.xx, 3.07 - 3.10, or 6.xx.

Procedure

To convert the Version 2.xx password file, enter the control statement CONVERT VSAM.

To convert the Version 3.07 - 3.10 or Version 6.xx password file, enter the control statement CONVERT V x , where x is either 3 or 6.

Examples

The following examples show how to convert BIM-FAQS/ASO passwords:

BIM-FAQS/ASO Password Conversion Jobstream Version

```
2.xx          // EXEC FAQUTIL CONVERT VERSION 2 VSAM PASSWORDS  
              CONVERT VSAM  
              /*
```

```
3.07 - 3.10  // EXEC FAQUTIL CONVERT VERSION 3 PDS PASSWORDS  
              CONVERT V3  
              /*
```

```
6.xx          // EXEC FAQUTIL CONVERT VERSION 6 PASSWORD PHASE  
              CONVERT V6  
              /*
```

Versions 3.20-3.32

No security conversion procedure is available for Versions 3.20-3.32. If you wish to convert to VSE/ESA from one of these versions, you will need to access and update each security member separately.

Event File Conversion

***Important!** Because of a format change in the event file, users of event-driven scheduling Version 3.32 and earlier should read this section.*

New Event File Format

The format of the event file had to be changed:

- To incorporate the event group name and cycle ID
- To convert existing holiday IDs to a new internal naming convention that supports up to 256 different holiday IDs

Before Reinstalling BIM-FAQS/PCS

Before reinstalling BIM-FAQS/PCS, take the following steps :

1. Before installing any other BIM-FAQS products, deactivate the \$JOBACCT and \$JOBEXIT hooks by executing JCLXCU with either the JA OFF and JCL OFF parameters or the DISABLE parameter.

Be sure to use your existing version of JCLXCU. Do not attempt to deactivate a pre-5.0 BIM-FAQS/PCS system with a 5.0 utility.

2. Install the BIM-FAQS products.

Event File Conversion Procedure

The JCLCONV conversion utility is provided to convert old event files into new event files. Take the following steps to convert the old event files using JCLCONV. See also the conversion jobstream below.

1. Execute JCLCONV with the CONVERT parameter.
2. Execute JCLCONV with the CONVERT HOLIDAY parameter.
3. Reload the phases JCLACCT and \$JOBEXGP into the SVA by performing a SET SDL.
4. Enable the \$JOBACCT and \$JOBEXIT hooks by executing JCLXCU with the ENABLE LOAD=NO parameter.
5. Recycle the BIM-FAQS/PCS online partition and JCLSCHED.

Conversion Jobstream

Use the following jobstream to perform the conversion procedure outlined above.

```
// JOB JOB1                                Deactivates current release of BIM-FAQS/PCS.
// EXEC JCLXCU
JA OFF                                     Deactivates $JOBACCT phase.
JCL OFF                                    Deactivates $JOBEXIT phase.
/*
/ &
.           install
.           BIM-FAQS
.
// JOB JOB2                                Loads new modules into the SVA.
// LIBDEF PHASE,SEARCH=lib.sublib
SET SDL
JCLACCT,SVA
$JOBEXGP,SVA
/*
// EXEC JCLCONV                             Converts events to 3.4 format.
CONVERT
CONVERT HOLIDAY
/*
// EXEC JCLXCU                             Activates $JOBEXIT, $JOBACCT hooks.
ENABLE LOAD=NO                             Enables event logging.
/*
/ &
```

Activation Jobstream

Use the following jobstream to perform the activation procedure outlined above:

```
// JOB JOB1                Deactivates current release of BIM-FAQS/PCS.
// EXEC JCLXCU            Deactivates $JOBEXIT, $JOBACCT phases.
DISABLE
/*
/&
.          install
.          BIM-FAQS
.
// JOB JOB2                Loads new modules into the SVA.
// LIBDEF PHASE,SEARCH=lib.sublib
SET SDL
JCLACCT,SVA
$JOBEXGP,SVA
/*
// EXEC JCLXCU            Activates $JOBEXIT, $JOBACCT hooks.
ENABLE LOAD=NO           Enables event logging.
/*
/&
```

New Global Variables: 3.41 and Up

Introduction

BIM-FAQS/PCS now supports the testing of global variable conditions in Versions 3.41 and higher. Pre-3.41 global variables are still supported but are not available for online maintenance. A conversion utility is available to migrate your current global variables into the current format.

Migration to New Global Variables from 3.20-3.32

Use the following JCL to convert existing global variables to the current format:

```
// LIBDEF PHASE,SEARCH=lib.sublib  
// EXEC REXXBAT,PARM='$GVARCVT'
```

Note that you can still use the REXX IMODs *PCSGET* and *PCSSET* with the pre-3.41 global variables.

\$GVAR and *\$PVAR* are used to reference the current BIM-FAQS/PCS global variables. You can change all references to *PCSGET* and *PCSSET* to calls to *\$GVAR* and *\$PVAR*.

Event Batch Definition

Introduction

If you currently define events using JCLEVNT, you must now identify the event command using the COMMAND keyword.

JCLEVNT

For details about the new JCLEVNT control statements, see the *BIM-FAQS/PCS Operations Guide*.

CA-JARS Considerations

Introduction

If you are using a version of CA-JARS prior to Version 6.1, you must take certain preliminary steps in order for BIM-FAQS/PCS to function properly. CA-JARS has defaults that will **not** permit BIM-FAQS/PCS to gain control to gather essential event processing information.

Running with CA-JARS

CA-JARS has a system generation macro, CAJDLOPT, with parameters that indicate whether to pass control to other \$JOBEXIT and \$JOBACCT programs. These parameters, USERJAC and USERJEX, default to NO. They must be changed to USERJAC=YES and USERJEX=YES.

If the defaults for USERJAC and USERJEX are **not** changed to YES, typical results are:

- // JCLEVNT statements are invalid statements to VSE
- Event statuses are not changed to COMP

These conditions can prevent other events from being dispatched.

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