

File-AID/MVS

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ROSCOE Users Installation Addendum

Release 8.9



**COMPUWARE®**

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# Chapter 1.

## Installation Methods

This chapter describes two methods for installing File-AID for your ROSCOE users and it summarizes the required steps for each method.

This manual describes procedures that are specific to installing File-AID for ROSCOE users. Use the *File-AID/MVS Installation Guide* for general installation information.

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### Choose Install Manager or Manual Installation

Compuware recommends using the Install Manager to perform the File-AID/MVS installation procedure when you have access to a TSO ID which is required for this process. ROSCOE sites that do not have a TSO ID available should complete the manual installation instructions.

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### Install Steps for TSO ID and Install Manager

1. Use the Install Manager installation instructions in the *File-AID/MVS Installation Guide* to install and tailor File-AID.
2. Use the ROSCOE customization steps in Chapter 2, “Running File-AID/MVS under ROSCOE” to make File-AID operational in a ROSCOE environment.

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### Install Steps for Manual Installation for ROSCOE Users

1. Follow the instructions in Chapter 3, “Installing File-AID Manually”.
2. Use the ROSCOE customization steps in Chapter 2, “Running File-AID/MVS under ROSCOE” to make File-AID operational in a ROSCOE environment.



## Chapter 2.

# Running File-AID/MVS under ROSCOE

In the CA-ROSCOE environment, File-AID operates under ISPF (IBM's standard ISPF dialog manager) under ETSO (Extended TSO component of ROSCOE) under ROSCOE. ETSO is a standard option of ROSCOE.

This chapter discusses the steps required to install File-AID and make it operational in a ROSCOE environment.

### Notes:

1. In order to run File-AID under ROSCOE, you must already have ISPF installed under ROSCOE.
2. You can take advantage of the performance benefits offered by the XTPM (External Teleprocessing Monitor) component of CA-ROSCOE by installing File-AID in an XTPM region.

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## Step 1 — Make the File-AID Load Library Available to ROSCOE

The File-AID load library can be made available to ROSCOE by using one of the following methods:

- Concatenate the File-AID load library, FA.V8R9M0.LOAD, to the ETSOLIB DD statement in your ROSCOE start-up JCL.
- Copy the File-AID load library to an existing library allocated to ETSOLIB.
- Allocate the File-AID load library to ISPLLIB in the RPF. See Step 2.

**Note:** If the File-AID SVC is accessed, members FASPF, FACOMMON, and FAUTILTY must be placed in an APF-authorized library.

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## Step 2 — Create an RPF to Invoke File-AID

The appropriate File-AID libraries must be allocated under ETSO. The RPF (ROSCOE Programming Facility) shown in Figure 2-1 on page 2-2 allocates both ISPF and File-AID libraries and ISPSTART is called to invoke File-AID under ISPF.

Sample member FARPF resides in the PDS that contains the File-AID installation library. Check the dataset names and make sure they point to your File-AID and system libraries. Modify the ISPF version, release, and modification level for your site.

**Note:** Include ISR.ISRLLIB for the ALLOCATE ISPLLIB if it is not in your system linklist.

**Figure 2-1.** ROSCOE Programming Facility (RPF). Call PDF from ROSCOE

```

<<PDF>>
TRAP ON
FREE ALL
TRAP OFF
SET MSGLEVEL E
TRAP ON
  ALLOCATE
  ISPPROF
  +DISP=SHR,DSN=(+S.KEY+.ISPF.ISPPROF)
  ENDALLOC
TRAP OFF
IF (S.TC NE 0) THEN
  ALLOCATE
  ISPPROF
  +DISP=(NEW,CATLG),DSN=(+S.KEY+.ISPF.ISPPROF),UNIT=SYSDA
  RECFM=FB,LRECL=80,BLKSIZE=3120,DSORG=PO,SPACE=(TRK,(2,2,1))
  ENDALLOC
ENDIF
ALLOCATE                                : ALLOCATE PANEL LIBRARIES
  ISPPLIB DISP=SHR
  BLKSIZE=6160
  DSNAME=(FILEAID.ISPPLIB
          SYS4.ISR.V3R1M0.ISRPLIB
          SYS4.ISP.V3R1M0.ISPPLIB)
  ENDALLOC
ALLOCATE                                : ALLOCATE MESSAGE LIBRARIES
  ISPMLIB DISP=SHR
  BLKSIZE=6160
  DSNAME=(FILEAID.ISPMLIB
          SYS4.ISR.V3R1M0.ISRMLIB
          SYS4.ISP.V3R1M0.ISPMLIB)
  ENDALLOC
ALLOCATE                                : ALLOCATE SKELETON LIBRARIES
  ISPSLIB DISP=SHR
  BLKSIZE=6160
  DSNAME=(FILEAID.ISPSLIB
          SYS4.ISR.V3R1M0.ISRSLIB
          SYS4.ISP.V3R1M0.ISPSLIB)
  ENDALLOC
ALLOCATE                                : ALLOCATE TABLE LIBRARIES
  ISPTLIB DISP=SHR
  BLKSIZE=6160
  DSNAME=(FILEAID.ISPTLIB
          SYS4.ISR.V3R1M0.ISRTLIB
          SYS4.ISP.V3R1M0.ISPTLIB)
  ENDALLOC
CALL ISPSTART 'PANEL(IFAMU01) NEWAPPL(FAXE)'
RESPONSE 'PDF COMPLETED WITH RETURN CODE = ' | S.RC
FREE ALL
RETURN

```

To call PDF instead of File-AID replace the CALL shown in Figure 2-1 with the CALL shown in Figure 2-2.

**Figure 2-2.** Sample ROSCOE Programming Facility (RPF). Call PDF from ROSCOE

```
CALL ISRPCP                                : CALL PDF
```

## Step 3 — Define File-AID in the EPL

ISPSTART must be defined in the EPL (Eligible Program List) to enable terminal users to call File-AID. Sites must ensure the following when these applications are added to the EPL.

- The list must be arranged in ascending, alphabetical order by application name.
- Each record that comprises the list must conform to the format in the tables shown on page 2-3 and page 2-4.

The following information will help you to determine memory requirements:

- If File-AID is installed in 31-bit mode, most memory usage is above the 16-MB line.
- An edit session in File-AID requires the most memory.

- File-AID uses reentrant modules. Therefore, storage for these modules is only acquired once.
- Editing non-keyed files requires enough storage for the size of the file plus 170K of overhead for each user. Storage for keyed files requires just the 170K of overhead for each user.

Table 2-1 and Table 2-2 show typical region requirements for editing a keyed file and non-keyed file of 700 300-byte records. Fixed storage is acquired once for all users. Variable storage is acquired by each user using the Edit function.

**Table 2-1.** Keyed File Region Requirements

File	Fixed	Variable
File-AID reentrant modules	900K	
File-AID non-reentrant modules		7K
Working storage	64K	
Buffers	99K	
Total	900K	170K

**Table 2-2.** Non-Keyed File Region Requirements

File	Fixed	Variable
Size of Data File (LRECL x no. of records)		205K
Total	900K	375K

Other File-AID functions require significantly less region.

## ETSO 5.7 (And Above)

**Table 2-3.** ETSO 5.7 (and Above)

Column	Contents	Comments
1-8	Application Name	ISPSTART. If ISPSTART exists, an ALIAS can be specified for ISPSTART.
9	blank	
10-12	Maximum Executions	Maximum number of concurrent executions of the application. Recommended value is 999 (no restriction).
13	blank	
14-17	CPU Time Slice	Maximum number of CPU time slices to be provided before the application is forced to terminate. The default time slice value is equal to 5,000 microseconds. To prevent the application from terminating, specify 9999. Recommended value is 9999.
18	blank	
19-24	Maximum Memory <16 MB line	Total amount of memory (in K) to be provided to the application below the 16 MB line. Recommended value is 2048K.
25	blank	
26-31	Memory Request <16 MB line	Total amount of memory (in K) to be provided to the application in any one variable length request. For example, an application limited to a maximum of 512K can be further restricted so memory is provided in increments of 32K. Storage is acquired below the 16 MB line. Recommended value is 2048K.
32	blank	
33-38	Maximum Memory >16 MB line	Maximum amount of memory (in K) to be provided to the application above the 16 MB line. Recommended value is 999999K.
39	blank	

**Table 2-3.** ETSO 5.7 (and Above) (Continued)

Column	Contents	Comments
40-45	Memory Request >16 MB line	Maximum amount of storage (in K) that the application can acquire above the 16 MB line in any one getmain request. Recommended value is 999999K.
46	blank	
47	Dump Flag	Flag used to control the production of a dump if the application shouldabend. Y - Produce dump. (Y and D are synonymous.) N - Suppress dump. Recommended value is N.
48	blank	
49	MODESET Flag	Flag used to control the application's use of SVC107. Recommended value is Y.
50	blank	
51-52	TSO Flag	Flag used to designate that the application is to be called as a TSO command processor. ISPSTART is a TSO command processor. Value must be CP.
53-255	Ignored	

## ETSO 5.6

**Table 2-4.** ETSO 5.6

Column	Contents	Comments
1-8	Application Name	ISPSTART. If ISPSTART exists, an ALIAS can be specified for ISPSTART.
9	blank	
10-13	CPU Time Slice	Maximum number of CPU time slices to be provided before the application is forced to terminate. The default time slice value is equal to 5,000 microseconds. To prevent the application from terminating, specify 9999. Recommended value is 9999.
14	blank	
15-18	Maximum Memory	Total amount of memory (in K) to be provided to the application. Recommended value is 2048K.
19	blank	
20-23	Memory Request	Total amount of memory (in K) to be provided to the application in any one variable length request. For example, an application limited to a maximum of 512K may be further restricted so memory is provided in increments of 32K. Recommended value is 512K.
24	blank	
25	Dump Flag	Flag used to control the production of a dump if the application shouldabend. Y - Produce dump. (Y and D are synonymous.) N - Suppress dump. Recommended value is N.
26	blank	
27	MODESET Flag	Flag used to control the application's use of SVC107. Recommended value is Y.
28	blank	
29-30	TSO Flag	Flag used to designate that the application is to be called as a TSO command processor. ISPSTART is a TSO command processor. Value must be CP.
31-49	reserved	
50-72	Comment	Any comments used by the sites to describe the application.

## Step 4 — Submit Batch JCL from File-AID

In order for File-AID to submit batch jobs in the copy, reformat, search/update, and print functions, the CA-ROSCOE submit routine must be installed. This routine is shipped in the CA-ROSCOE source library as member name ETSSUB. Compuware recommends that you read the documentation in this member for information on how to install it. Figure 2-3 on page 2-5 shows sample JCL for assembling and link editing this exit.

**Note:** The load library into which you link edit should be in the ETSOLIB DD concatenation in your ROSCOE start-up JCL.

**Figure 2-3.** Sample Assemble/Link-Edit JCL for ETSSUB Exit

```

/* ==> INSERT JOB CARD HERE                                <== JOB CARD
/* -----
/* ASSEMBLE
/* -----
//ASMH      EXEC  PGM=IEV90,PARM=( 'RENT,BATCH,LIST,NODECK,OBJECT',
//          'SYSPARM(MVS),XREF(SHORT)')
//SYSLIB   DD    DSN=????.ROSCOE.V570.MACLIB,DISP=SHR
//          DD    DSN=SYS1.MACLIB,DISP=SHR
//          DD    DSN=SYS1.MODGEN,DISP=SHR
//SYSUT1   DD    UNIT=VIO,SPACE=(CYL,(2,2))
//SYSUT2   DD    UNIT=VIO,SPACE=(CYL,(5,3))
//SYSUT3   DD    UNIT=VIO,SPACE=(CYL,(2,2))
//SYSPRINT DD    SYSOUT=*
//SYSTEM   DD    SYSOUT=*
//SYSDUMP  DD    SYSOUT=*
/*
//SYSIN    DD    DSN=????.ROSCOE.V570.SOURCE(ETSSUB),DISP=SHR
//          DD    DSN=????.YOUR.OBJECT(ETSSUB),DISP=OLD
/* -----
/* LINKEDIT
/* -----
//LINKEDIT EXEC  PGM=IEWL,PARM='RENT,LET,LIST,MAP,XREF',COND=(0,LT)
//SYSUT1   DD    UNIT=SYSDA,SPACE=(1024,(500,20))
//SYSPRINT DD    SYSOUT=*
//SYSDUMP  DD    SYSOUT=*
/*
//OBJECT   DD    DSN=????.YOUR.OBJECT,DISP=SHR
//SYSLMOD  DD    DSN=????.YOUR.LOAD,DISP=OLD
//SYSLIN   DD    *
INCLUDE OBJECT(ETSSUB)
ENTRY  ETSSUB
ALIAS  SUB
NAME  SUBMIT(R)
/*

```

## Step 5 — Override Dataset Naming Conventions

The default high-level qualifier for datasets is ROSCOE. If you want to override this high-level qualifier, Computer Associates provides a user exit, CLLEXIT. CLLEXIT should be modified, assembled, and linked into a library in the ROSCOE startup procedure. You can also use CLLEXIT to override the TSO userid, which consists of a user PREFIX and ETSO.

If you are not using this exit, you must modify your existing security rules (ACF2, TOP SECRET, or RACF) to allow users to allocate datasets with the high-level qualifier, ROSCOE.

## Step 6 — Copy Training Files RPF

Sample member COPYRPF resides in the File-AID installation library. This RPF enables you to copy the File-AID training files to File-AID users.

## **Questions Regarding ROSCOE Installation**

### **What is required to run File-AID under ROSCOE?**

Running File-AID under ROSCOE requires that you do the following:

- Activate the ETSO option of ROSCOE.
- Set up an RPF to allocate the required ISPF and File-AID files.
- Invoke File-AID under ISPF from a panel.

### **Does this require a separate TSO region for each active File-AID user?**

No. ROSCOE runs as a single address space with users sharing the same region. ETSO lets ROSCOE simulate a TSO environment, which allows each user to process programs intended to run under TSO. All processing is done in the ROSCOE region.

### **Do I need to install both ISPF and PDF for File-AID to run?**

Yes, both ISPF and PDF are required.

### **What if ETSO/ROSCOE abnormally terminates with abend code U0998?**

This condition can cause File-AID to hang ETSO/ROSCOE while switching between functions in the product. If this occurs, the EPL storage limits are not set high enough. Increase the GETMAIN amounts in the EPL.

## Chapter 3.

# Installing File-AID Manually

This chapter provides a detailed description of the following steps needed to manually install File-AID/MVS. Use these steps when installing File-AID under Roscoe:

- “Step 1 — Allocate and Load File-AID Libraries” on page 3-2
- “Step 2 — Move the File-AID (Batch, SPF, and XE) Library Members” on page 3-3
- “Step 3 — Install File-AID SVC (Optional)” on page 3-4
- “Step 4 — Create File-AID Training Files” on page 3-6
- “Step 5 — Add the File-AID Load Library to Your System” on page 3-7
- “Step 6 — Perform Optional IPL” on page 3-7
- “Step 7 — Customize the Training File CLIST — FACOPY” on page 3-8
- “Step 8 — Make File-AID CLISTs Available” on page 3-8
- “Step 9 — Make Remaining File-AID Libraries Available” on page 3-9
- “Step 10 — Add File-AID to Your Primary Menu” on page 3-11

When the installation steps outlined in this chapter are completed, refer to the File-AID/MVS *Installation Guide* to customize your environment and tailor File-AID:

All File-AID options are distributed on a single tape with the following characteristics:

<b>Tape Density</b>	6250 BPI.
<b>Volume Serial Number</b>	Cnnnnn, where nnnnn is shown on the external tape label.
<b>Format</b>	DCB=(RECFM=FB,LRECL=80,BLKSIZE=bbbb), where bbbb is the block size as shown on the external tape label.

Everything required to install all File-AID options is contained in three datasets on the File-AID tape.

<b>CW.FA.FILE1</b>	Install Manager.
<b>CW.FA.FILE2</b>	Installation JCL, screens, messages, etc. used to load the INSTALL PDS.
<b>CW.FA.FILE3</b>	Object code for all of the File-AID modules used to load the OBJECT PDS.

Space and DCB requirements for File-AID libraries may be updated for each new release. Always use the JCL distributed with this release and shown in this manual. See the sample JCL in Figure 3-1 on page 3-2 for the installation library requirements. Table 3-1 approximates File-AID space requirements (3380 DASD) for each library.

**Note:** Double all PDS directory block allocations for installations running PDSMAN.

**Table 3-1.** File-AID Space Requirements (Batch, SPF, and XE combined)

Library	3390 DASD Space Information
FA.V8R9M0.LOAD	110 tracks
FA.V8R9M0.ISPPLIB	160 tracks
FA.V8R9M0.ISPMLIB	20 tracks
FA.V8R9M0.ISPTLIB	1 track
FA.V8R9M0.ISPSLIB	5 tracks
FA.V8R9M0.CLIST	10 tracks

## Step 1 — Allocate and Load File-AID Libraries

Use the JCL shown below to allocate the File-AID INSTALL and OBJECT libraries and to unload the supplied tape into them.

The example JCL shows several alternate forms of LABEL processing. Pick the one that meets the requirements of your site. Security rules at your site might prevent you from reading datasets that begin with CW. If this restriction exists, you may want to choose the USE THESE LINES TO BYPASS LABELS form.

In each step, the SYSPRINT DD is assigned to DUMMY to prevent the generation of a large volume of printout. The IEBUPDTE output is not used.

Each step must execute with a condition code of zero (0). Use the attributes specified in Figure 3-1 on page 3-2.

Figure 3-1. JCL to Allocate and Load File-AID Libraries

```

/* * ==> INSERT JOB CARD HERE                                <== JOB CARD
/* * -----
/* *   LOAD INSTALL PDS FROM TAPE FILE 2
/* * -----
//UPDTE1 EXEC PGM=IEBUPDTE,PARM=NEW
//SYSUT2 DD DISP=(,CATLG,DELETE),
//      DSN=?????????.FA.V8R9MO.INSTALL,      <--- SPECIFY INSTALL-LIB DSN
//      UNIT=?????,                          <--- SPECIFY DASD UNIT TYPE
//      VOL=SER=??????.                      <--- SPECIFY DASD VOLUME
//      SPACE=(CYL,(30,1,180)),              <--- 3380 SPACE
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120) <--- REQUIRED
//OBJECT DD DISP=(,CATLG,DELETE),
//      DSN=?????????.FA.V8R9MO.OBJECT,      <--- SPECIFY OBJECT-LIB DSN
//      UNIT=?????,                          <--- SPECIFY DASD UNIT TYPE
//      VOL=SER=??????.                      <--- SPECIFY DASD VOLUME
//      SPACE=(CYL,(5,1,30)),                <--- 3380 SPACE
//      DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120) <--- REQUIRED
//SYSIN  DD DSN=CW.FA.FILE2,DISP=OLD,        <--- TAPE FILE 2
//      UNIT=?????,                          <--- SPECIFY TAPE UNIT TYPE
//      VOL=(,RETAIN,SER=C?????),           <--- SPECIFY TAPE VOLUME
//      LABEL=(2,SL)                         <--- NON CA-1 USERS
/* *      LABEL=(2,SL,EXPDT=98000)           <--- CA-1 USERS
/* *      LABEL=(3,BLP,EXPDT=98000),        <--/ USE THESE LINES
/* *      DCB=BLKSIZE=?????                <--\ TO BYPASS LABELS
//SYSPRINT DD DUMMY                          <--- PDS LISTING
//SYSUDUMP DD SYSOUT=*                       <--- ABEND OUTPUT
/* * -----
/* *   LOAD OBJECT PDS FROM TAPE FILE 3
/* * -----
//UPDTE2 EXEC PGM=IEBUPDTE,PARM=NEW
//SYSUT2 DD DISP=(OLD,KEEP,DELETE),DSN=*.UPDTE1.OBJECT
//INSTALL DD DISP=(OLD,KEEP,DELETE),DSN=*.UPDTE1.SYSUT2
//SYSIN  DD DSN=CW.FA.FILE3,DISP=OLD,        <--- TAPE FILE 3
//      VOL=REF=*.UPDTE1.SYSIN,            <--- SAME VOLUME
//      LABEL=(3,SL)                       <--- NON CA-1 USERS
/* *      LABEL=(3,SL,EXPDT=98000)         <--- CA-1 USERS
/* *      LABEL=(6,BLP,EXPDT=98000),      <--/ USE THESE LINES
/* *      DCB=BLKSIZE=?????                <--\ TO BYPASS LABELS
//SYSPRINT DD DUMMY                          <--- PDS LISTING
//SYSUDUMP DD SYSOUT=*                       <--- ABEND OUTPUT

```

## Step 2 — Move the File-AID (Batch, SPF, and XE) Library Members

Use the following steps to move the File-AID (Batch, SPF, and XE) library members from the install and object libraries to the appropriate ISPF libraries. The LOAD library contains File-AID/Batch, SPF, and XE files. The other four libraries contain only File-AID/SPF and XE files. Table 3-1 on page 3-1 lists the space requirements for each library. Use the specified File-AID install library members (depending upon the requirements of the site and the product).

### 1. Link-Edit Object Modules.

For File-AID/Batch, File-AID/SPF, and File-AID/XE, member JCLLINK allocates FILEAID.LOAD and link-edits the object modules included on your tape. The object modules for File-AID/SPF, File-AID/XE and File-AID/Batch are included on your tape, depending on the options for which you are licensed. The object modules for File-AID/Batch are now link-edited into the same library as File-AID/SPF and File-AID/XE.

**Note:** If you are installing *only* File-AID/Batch, this step is the end of the installation procedure. If you are installing File-AID/SPF or File-AID/XE, continue to the end of the chapter. Installation parameters are preset to default values and need not be changed at this time.

### 2. Create Panel, Message, Command Table, CLIST, and Skeleton Libraries.

Use member JCLXLIBS to allocate and copy in the File-AID panels, messages, command table, CLIST, and skeleton libraries.

**Note:** The File-AID command table is required in order to use RFIND, RCHANGE, and recursive commands.

### 3. Customize Members.

Customize the FAJSTEPL member in the skeleton JCL library, 'XXXXXXXX.FA.V8R9M0.ISPSLIB' by changing the default load library name from 'XXXXXXXX.FA.V8R9M0.LOAD' to the name assigned by your site to the File-AID load library.

### 4. Link-Edit Other Modules Depending on Site Requirements.

*For accessing CA-LIBRARIAN or CA-PANVALET libraries with File-AID:* Use the appropriate JCL member(s):

- **JCLLKLIB (Librarian Sites Only):** This member link-edits the File-AID Librarian interface with the site's Librarian system.
- **JCLLKPAN (Panvalet Release 12A or Earlier Sites Only):** This member link-edits the File-AID Panvalet interface with the site's Panvalet system.
- **JCLLKPN1 (Panvalet Release 12B or Later Sites Only):** This member loads the File-AID Panvalet interface rather than static linking it.

For sites with both CA-Panvalet and CA-Top Secret installed that want to browse Panvalet datasets to which you only have READ access, refer to the TSSPAN11 exit in your *CA-Panvalet System Management Guide*.

**Note:** IAM is automatically linked with Release 8 of File-AID.

## Step 3 — Install File-AID SVC (Optional)

MVS requires that certain functions, such as creating SMF records and allocating ISAM datasets, be executed in an authorized state to prevent unauthorized users from gaining access to these services. File-AID provides a type 3 or 4 user SVC that does these functions in an authorized state. The File-AID/SPF/XE and File-AID for IMS products share the same user SVC.

The File-AID Release 8.0.0 SVC contains upgrades that ensure that only File-AID can access its SVC functions. **Compuware recommends that you upgrade any previous File-AID SVCs to the current version.** However, you can skip this step if you have installed the SVC from File-AID 6.5.1 or 7.0.1 or File-AID for IMS 2.1.1. The newer versions of the SVC are downward compatible with File-AID Release 6.3 and above, and File-AID for IMS Release 1.1.2 and above.

Effective with File-AID Release 6.5.1 / 7.0.1 (and File-AID for IMS Release 2.1.1), the SVC was upgraded to ensure that only File-AID can invoke it. The File-AID SVC validates the program name and makes sure that it is loaded from an APF-authorized library. The SVC runs AMODE(31) and supports File-AID modules that are RMODE(24) or RMODE(31).

If you do not want this level of control, change the include) in the link JCL for object module SPFSVC to include SPFSVCNA. SPFSVC checks the caller for authorization by testing to see that the caller is loaded into protected storage. This means that the File-AID main modules FASPF, FACOMMON, and FAUTILTY must be placed in an APF-authorized library in order to access the functions available with the SVC. SPFSVCNA does not perform this check.

Perform the following steps to install the SVC.

1. The install member JCLLKSVCS contains JCL to link-edit the File-AID SVC. Enter a job card for the JCL member JCLLKSVCS. Modify the symbolic parameters described in Table 3-2.

**Table 3-2.** Job JCLLKSVCS Symbolic Parameters

Symbolic Parameter	Default	Description
PRINT	*	Print output SYSOUT class.
DEV	SYSDA	Temporary work file device.
LOADDSN	XXXXXXXX.FA.V8R9M0.LOAD	File-AID load library.
OBJDSN	XXXXXXXX.FA.V8R9M0.OBJECT	File-AID object library.

2. There are “Include” statements for each SVC function that File-AID must execute in supervisor state. Any SVC function that will never be used at your site can be deleted from the Includes. Each SVC function has a weak external reference (WXTRN) so that a missing entry can never be called but generates a zero return code on the link-edit.

The File-AID SVC functions are described in Table 3-3.

**Table 3-3.** SVC Functions

Module	Description
FAFUNC00	Issue SVC 26: allows File-AID/SPF to delete Storage Management Subsystem (SMS) datasets or rename VSAM SMS datasets. For compatibility purposes, this module is required only when you intend to run a release prior to File-AID 8.0.
FAFUNC04	Issue SVC 32: used by File-AID/SPF to allocate ISAM datasets dynamically.
FAFUNC12	Attaches module DFHDRP to allow File-AID for IMS access to CICS databases through the IRC interface.
FAFUNC16	Issue SVC 83: used for writing File-AID and File-AID for IMS SMF records to the system SMF log file.

**Table 3-3.** SVC Functions (Continued)

Module	Description
FAFUNC20	Loads File-AID for IMS module FDLlyxxx and then issues a SYNCH to it that allows use of cross memory services. This is done to gain access to IMS control blocks (BMP mode) or DLI control blocks (IRC mode). It is required if BMP or IRC access is to be used in File-AID for IMS. <b>Note:</b> xxx refers to the IMS level being accessed -- 130, 220, 310, or 410; y is a version designator for FDLI.
FAFUNC28	Attaches module FAICTLOP in supervisor state. <b>Note:</b> This function is not supported if running DFP Release 2.4 or above.
FAFUNC32	Allows the terminal name to be accessed in protected storage for recording in the File-AID for IMS SMF Audit Access Record. It is also used for BMP or IRC access. This module is for File-AID for IMS Release 2.1 and above.

- The name card must be changed in the link-edit JCL to reflect the SVC number that you assign. The SVC can be either a user SVC or an ESR (Extended Service Router SVC, invoked by SVC 109). Ensure that you do not use any existing or future IBM ESR numbers. MVS 2.3 and above allow use of ESR numbers in the range of 200-255.

User SVCs are named IGC00nnn where nnn is a number between 200 and 255 with the last digit signed numeric (0 = {, 1 = A, 2 = B, etc.). ESR modules are named IGX00nnn where nnn is a number between 200 and 255.

- Submit member JCLKSVC.
- If the File-AID SVC is installed as a user SVC (IGC00nnn), the MVS SVC table (IEASVC00 in SYS1.PARMLIB) must be updated to include the new SVC number. For example:

```
SVC Parm 253,REPLACE,TYPE(3)          /* FILEAID SVC */
```

- After link-editing the SVC module using the JCL in member JCLKSVC, copy the module into SYS1.LPALIB. Then perform an IPL (with a CLPA) or use a program product such as RESOLVE to make the SVC available.

This version of the SVC contains the logic to verify that the caller of the SVC came from a File-AID program loaded from an APF-authorized library. It checks the caller for APF authorization by testing to see that the caller is loaded into protected storage. This means that the File-AID main modules FASPF, FACOMMON, and FAUTILTY must be placed in an APF-authorized library to access the functions available with the SVC.

**Note:** If an authorized library is concatenated to an unauthorized library, then the library becomes unauthorized.

- For the user SVC implementation, change the variable SVCNUM on the File-AID Primary Option Menu panel. The variable SVCNUM must be set to the number (not-signed) of your SVC. If you are not using this implementation, leave the variable set to blanks. See SVCNUM in File-AID/MVS *Installation Guide* "Installation Option Variables".

For the ESROUTE SVC implementation, change the variable ESROUTE on the File-AID Primary Option Menu panel. The variable ESROUTE must be changed to the ESR number selected. If you are not using this implementation, leave the variable set to blanks. See ESROUTE in File-AID/MVS *Installation Guide* "Installation Option Variables".

## Step 4 — Create File-AID Training Files

Installation library member JCLTRNG creates the File-AID sample data training files.

Enter a job card in JCL member JCLTRNG. Modify the default symbolic parameters, shown in Table 3-4, as necessary and submit. There are 12 sample datasets cataloged in this job. For each of these, change the first node of the default name, XXXXXXX.FA.V8R9M0, to the appropriate value.

**Table 3-4.** Job JCLTRNG Symbolic Parameters

Symbolic Parameter	Default	Description
PRINT	*	Print output SYSOUT class.
TEMPDEV	SYSDA	Temporary work file device.
PERMDEV	SYSDA	Cataloged file device.
VOLSER	blank	Disk volume where File-AID sample files will reside.
LOADDSN	XXXXXXXX.FA.V8R9M0.LOAD	File-AID load library.
INSTDSN	XXXXXXXX.FA.V8R9M0.INSTALL	Install library created in “Step 1 — Allocate and Load File-AID Libraries” on page 3-2.
TRCOMPAR	XXXXXXXX.FA.V8R9M0.FASAMP.COMPARE	Sample compare dataset.
TREMPLOY	XXXXXXXX.FA.V8R9M0.FASAMP.EMPLOYEE	Employee master file.
TREMPLOY2	XXXXXXXX.FA.V8R9M0.FASAMP.EMPLOYEE2	Sample reformat dataset.
TRINVFIL	XXXXXXXX.FA.V8R9M0.FASAMP.INVFILE	Sample inventory dataset, variable-blocked.
TRJCL	XXXXXXXX.FA.V8R9M0.FASAMP.JCL	Sample PDS that contains JCL.
TRLAYOUT	XXXXXXXX.FA.V8R9M0.FASAMP.LAYOUTS	Sample layouts.
TRORDER	XXXXXXXX.FA.V8R9M0.FASAMP.ORDERFILE	Sample order dataset.
TRRFMT	XXXXXXXX.FA.V8R9M0.FASAMP.RFMTDEF	Sample reformat definitions.
TRSEGFIL	XXXXXXXX.FA.V8R9M0.FASAMP.SEGFILE	Sample segmented data file.
TRSELCR	XXXXXXXX.FA.V8R9M0.FASAMP.SELCRIT	Sample selection criteria dataset.
TRXREF	XXXXXXXX.FA.V8R9M0.FASAMP.XREF	Sample record/layout XREF dataset.

---

## Step 5 — Add the File-AID Load Library to Your System

The load library, XXXXXXXXXX.FA.V8R9M0.LOAD, must be made available to your system when any component of File-AID is installed. Choose one of the following methods to add File-AID to your system:

1. **Link Pack Area Method:** Compuware recommends placing programs FASPF, FASPFXE, FACOMMON, FACATLG, FAUTILTY, FAIDCAMS, and FACMPARE in the Link Pack Area (LPA). This method saves the system from loading a copy of these modules into each user's address space which reduces region size required to run File-AID by approximately one-half. When the File-AID SVC is installed, this installation method satisfies the File-AID SVC requirement that these modules reside in an APF-authorized library. The rest of the File-AID modules must be made available to your system as described in this section.

**Note:** The Link Pack Area Method requires an IPL.

**Note:** If exit routines are maintained by a person other than the systems programmer, the File-AID Load Library should remain in the Link List.

2. **Link List Method:** The File-AID load library, FA.V8R9M0.LOAD, can be added to your Link List concatenation.

**Note:** The Link List Method requires either an IPL, REFRESH, or equivalent.

3. **Logon Proc or Allocation CLIST method:** The File-AID load library, FA.V8R9M0.LOAD, can be concatenated to a DD statement in your logon PROC or Allocation CLIST.

**Note:** If the File-AID SVC is accessed, members FASPF, FACOMMON, and FAUTILTY must be placed in an APF-authorized library.

Place the File-AID load library in the concatenation of either of the following DD statements:

- ISPLLIB
- STEPLIB.

4. **LIBDEF Method:** The File-AID libraries can be dynamically assigned when File-AID is accessed by using ISPF LIBDEF services.

This is achieved by modifying the File-AID CLIST FADYNALC in your File-AID CLIST library, FA.V8R9M0.CLIST.

See the examples of LOGON PROC, allocation CLIST, and the discussion of CLIST FADYNALC in “Step 9 — Make Remaining File-AID Libraries Available” on page 3-9.

---

## Step 6 — Perform Optional IPL

An IPL with CLPA is required only if you are installing the File-AID SVC or are implementing optional “Step 5 — Add the File-AID Load Library to Your System” on page 3-7 step 1 or step 2.

---

## Step 7 — Customize the Training File CLIST — FACOPY

The FACOPY CLIST copies the File-AID sample files created in “Step 4 — Create File-AID Training Files” on page 3-6 to the TSO user ID of the person executing the CLIST. To customize the FACOPY CLIST, review the notes at the beginning and change FACOPY as follows:

1. Change the sample files’ high-level name from XXXXXXX.FASAMP to the name that you assigned in “Step 4 — Create File-AID Training Files” on page 3-6.
2. Change the string DASDUNIT to the name of a valid unit for cataloging sequential files. For example, SYSDA.
3. Change the string VSAMVOL to the VOLSER of a volume where VSAM clusters can be cataloged.
4. (Optional) Alter the SET &USERDSN statement to tailor the name FACOPY uses for allocating personal training files for each user. The default name used is *userid.FASAMP.filename*.
5. (Optional) Alter the SET &VSAMHI statement to tailor the name FACOPY uses for the high-level qualifier for VSAM cluster naming. A period is required at the end of the high-level name.

For example:

```
SET &VSAMHI=&STR(MYVSAM.)
```

In the example, File-AID assigns VSAM clusters the name: *MYVSAM.userid.FASAMP.filename*. The default for &VSAMHI is “null”. If &VSAMHI is left set to “null”, personal VSAM training files are named the same as non-VSAM training files, *userid.FASAMP.filename*.

---

## Step 8 — Make File-AID CLISTs Available

The File-AID CLIST library, FA.V8R9M0.CLIST, should be added to the SYSPROC concatenation of your logon proc or allocation CLIST, or you may copy the File-AID CLIST library members to an active CLIST library in your SYSPROC concatenation.

### Notes:

1. If you choose to concatenate the File-AID CLIST library to other libraries in your SYSPROC concatenation, be sure the record formats (RECFM) are identical. File-AID creates its CLIST library with RECFM=FB, LRECL=80. You may need to define a new CLIST library with a different record format to match your other CLIST libraries (Ex. RECFM=VB, LRECL=255), then copy all members of the File-AID CLIST library to the new library.
2. CLISTS are required only for creating verification and training data (FACOPY), using LIBDEF services (FAMENU, FAEXEC and FADYNALC), and implementing the optional execution CLISTS (F1, F2, F31, etc.).

## Step 9 — Make Remaining File-AID Libraries Available

Choose one of the following methods to make the File-AID libraries available:

1. **Change the LOGON PROC:** In addition to the load library (ISPLLIB or STEPLIB) and the CLIST library (SYSPROC), all other File-AID libraries must be made available to ISPF. When running File-AID under TSO, concatenate the new File-AID libraries to the ISPF libraries in the ISPF logon PROC as follows:

```
FA.V8R9M0.LOAD      to  STEPLIB DD
FA.V8R9M0.CLIST    to  SYSPROC DD
FA.V8R9M0.ISPMLIB  to  ISPMLIB DD
FA.V8R9M0.ISPPLIB  to  ISPPLIB DD
FA.V8R9M0.ISPSLIB  to  ISPSLIB DD
FA.V8R9M0.ISPTLIB  to  ISPTLIB DD
```

Figure 3-2. TSO LOGON PROC Example

```
//TSOUSER EXEC PGM=IKJEFT01,DYNAMNBR=25,PARM='EX (LOGON)',
// TIME=10
//STEPLIB DD DSN=ISP.VnRnM0.LOAD,DISP=SHR
// DD DSN=XXXXXXXX.FA.V8R9M0.LOAD,DISP=SHR
//SYSPROC DD DSN=XXXXXXXX.FA.V8R9M0.CLIST,DISP=SHR
//ISPMLIB DD DSN=ISP.VnRnM0.MLIB,DISP=SHR
// DD DSN=XXXXXXXX.FA.V8R9M0.ISPMLIB,DISP=SHR
//ISPPLIB DD DSN=ISP.VnRnM0.PLIB,DISP=SHR
// DD DSN=XXXXXXXX.FA.V8R9M0.ISPPLIB,DISP=SHR
//ISPSLIB DD DSN=ISP.VnRnM0.SLIB,DISP=SHR
// DD DSN=XXXXXXXX.FA.V8R9M0.ISPSLIB,DISP=SHR
//ISPTLIB DD DSN=ISP.VnRnM0.TLIB,DISP=SHR
// DD DSN=XXXXXXXX.FA.V8R9M0.ISPTLIB,DISP=SHR
//SYSHELP DD DSN=SYS1.HELP,DISP=SHR
//SYSLBC DD DSN=SYS1.BROADCAST,DISP=SHR
//SYSPRINT DD TERM=TS,SYSOUT=*
//SYSTEM DD TERM=TS,SYSOUT=*
//SYSIN DD TERM=TS
```

2. **Set up Allocation CLIST Method:** In addition to the load library (ISPLLIB or STEPLIB) and the CLIST library (SYSPROC), all other File-AID libraries must be made available to ISPF.

You can create a CLIST to be executed from the TSO “READY” prompt, or as an initial logon command. This CLIST must be placed in a CLIST library allocated to SYSPROC in your logon proc. You may call the CLIST anything you like - for example: FILEAID or ALLOCFA.

This technique requires that individuals wishing to use File-AID must know the name of your allocation CLIST and how to execute it (READY prompt or initial command).

Concatenate the new File-AID libraries to the ISPF libraries in the allocation CLIST as follows:

```
FA.V8R9M0.LOAD      to  ISPLLIB or STEPLIB DD
FA.V8R9M0.CLIST    to  SYSPROC DD
FA.V8R9M0.ISPMLIB  to  ISPMLIB DD
FA.V8R9M0.ISPPLIB  to  ISPPLIB DD
FA.V8R9M0.ISPSLIB  to  ISPSLIB DD
FA.V8R9M0.ISPTLIB  to  ISPTLIB DD
```

Figure 3-3 and Figure 3-4 are examples of CLISTs you can create to allocate File-AID.

**Figure 3-3.** Allocation CLIST Example 1. When TSO STEPLIB command is available.

```

PROC 0
FREE FI(ISPMLIB ISPPLIB ISPSLIB ISPTLIB SYSPROC)
STEPLIB ('ISP.VnRnM0.LOAD' 'XXXXXX.FA.V8R9M0.LOAD')
ALLOC FI(SYSPROC) DA('XXXXXX.FA.V8R9M0.CLIST') SHR
ALLOC FI(ISPMLIB) DA('ISP.VnRnM0.MLIB' 'XXXXXX.FA.V8R9M0.ISPMLIB') SHR
ALLOC FI(ISPPLIB) DA('ISP.VnRnM0.PLIB' 'XXXXXX.FA.V8R9M0.ISPPLIB') SHR
ALLOC FI(ISPSLIB) DA('ISP.VnRnM0.SLIB' 'XXXXXX.FA.V8R9M0.ISPSLIB') SHR
ALLOC FI(ISPTLIB) DA('ISP.VnRnM0.TLIB' 'XXXXXX.FA.V8R9M0.ISPTLIB') SHR

```

**Figure 3-4.** Allocation CLIST Example 2. When TSO STEPLIB command is not available.

```

PROC 0
FREE FI(ISPMLIB ISPPLIB ISPSLIB ISPTLIB SYSPROC)
ALLOC FI(ISPMLIB) DA('ISP.VnRnM0.LOAD' 'XXXXXX.FA.V8R9M0.LOAD') SHR
ALLOC FI(ISPPLIB) DA('ISP.VnRnM0.PLIB' 'XXXXXX.FA.V8R9M0.ISPPLIB') SHR
ALLOC FI(ISPMLIB) DA('ISP.VnRnM0.MLIB' 'XXXXXX.FA.V8R9M0.ISPMLIB') SHR
ALLOC FI(ISPSLIB) DA('ISP.VnRnM0.SLIB' 'XXXXXX.FA.V8R9M0.ISPSLIB') SHR
ALLOC FI(ISPTLIB) DA('ISP.VnRnM0.TLIB' 'XXXXXX.FA.V8R9M0.ISPTLIB') SHR
ALLOC FI(SYSPROC) DA('XXXXXX.FA.V8R9M0.CLIST') SHR

```

3. **LIBDEF method:** File-AID CLISTs FAEXEC, FADYNALC, and FAMENU are required if LIBDEF services are used to allocate the File-AID libraries.

Modify CLIST FADYNALC if LIBDEF processing for dynamic allocation of File-AID libraries is required. Comments provided in the CLIST explain the changes required. Make sure the File-AID CLISTs FAMENU, FAEXEC and FADYNALC are in a CLIST library allocated to SYSPROC.

#### FAMENU

Invokes File-AID by calling FADYNALC to establish the environment. CLIST FAMENU is used to invoke File-AID from an ISPF menu.

#### FADYNALC

Optionally dynamically allocates File-AID libraries and calls FAEXEC.

#### FAEXEC

Sets option and calls File-AID to present the requested File-AID screen. For example, the File-AID Primary Option Menu.

---

## Step 10 — Add File-AID to Your Primary Menu

To add File-AID to your Primary Option Menu, modify your primary option menu panel to include option F - File-AID. See Figure 3-5 on page 3-12. Add the two new lines of code to your Primary Option Menu panel to allow your system to access File-AID.

ISR@PRIM is the ISPF/PDF Primary Option Menu panel. Figure 3-5 on page 3-12 shows an example of the ISR@PRIM panel with the two lines that you add for File-AID (English).

### Notes:

1. This step presumes that you have made File-AID CLISTs available, as described in “Step 8 — Make File-AID CLISTs Available” on page 3-8. If this is not true, substitute the following line for the second added line:

```
F, 'PANEL(IFAMU01) NEWAPPL(FAXE)'
```

2. File-AID can be installed on any menu panel. ISR@PRIM is shown as the example. Compuware suggests option code F for File-AID, but it is not required.
3. **ISPF 4.1 Users:** If you are installing File-AID under ISPF 4.1, tailor the attribute characters on the new lines added for File-AID to conform with the ISPF 4.1 panel.
4. To add the **Japanese File-AID panels** instead of English panels to your Primary Option Menu panel, substitute the following line for the second added line:

```
F, 'PANEL(IFJMU01) NEWAPPL(FAXE)'
```

Figure 3-5. ISPF/PDS Primary Option Menu Panel (ISR@PRIM)

```

----- ISPF/PDF PRIMARY OPTION MENU -----
OPTION  ==>_ZCMD
0 +ISPF PARMS - Specify terminal and user parameters +USERID - &ZUSER +
1 +BROWSE - Display source data or output listings +TIME - &ZTIME
2 +EDIT - Create or change source data +TERMINAL - &ZTERM
3 +UTILITIES - Perform utility functions +PF KEYS - &ZKEYS
4 +FOREGROUND - Invoke language processors in foreground
5 +BATCH - Submit job for language processing
6 +COMMAND - Enter TSO command or CLIST
7 +DIALOG TEST - Perform dialog testing
8 +LM UTILITIES- Perform library administrator utility functions
9 +IBM PRODUCTS- Additional IBM program development products
C +CHANGES - Display summary of changes for this release
F +File-AID - Data handling utility
T +TUTORIAL - Display information about ISPF/PDF
X +EXIT - Terminate ISPF using log and list defaults

+Enter%END+command to terminate ISPF.

)INIT
 .HELP = ISR0003
 &ZPRIM = YES /* ALWAYS A PRIMARY OPTION MENU */
 &ZHTOP = ISR0003 /* TUTORIAL TABLE OF CONTENTS */
 &ZHINDEX = ISR91000 /* TUTORIAL INDEX - 1ST PAGE */
 VPUT (ZHTOP,ZHINDEX) PROFILE
)PROC
&ZQ = &Z
IF (&ZCMD = ' ')
 &ZQ = TRUNC(&ZCMD, '.')
IF (&ZQ = ' ')
 .MSG = ISRU000
&ZSEL = TRANS( &ZQ
0, 'PANEL(ISPOPTA)'
1, 'PGM(ISRBRO) PARM (ISRBRO01)'
2, 'PGM(ISREDIT) PARM (P,ISREDM01)'
3, 'PANEL(ISRUTIL)'
4, 'PANEL(ISRFPA)'
5, 'PGM(ISRJB1) PARM(ISRJPA) NOCHECK'
6, 'PGM(ISRPTC)'
7, 'PGM(ISRYXDR) NOCHECK'
8, 'PANEL(ISRLPRIM)'
9, 'PANEL(ISPDIIIS)'
C, 'PGM(ISPTUTOR) PARM(ISR00005)'
F, 'CMD(%FAMENU) NOCHECK'
T, 'PGM(ISPTUTOR) PARM(ISR00000)'
, ' '
, ' '
, ' '
X, 'EXIT'
*, '?' )
&ZTRAIL = .TRAIL
)END

```

ADDED  
=====>

ADDED  
=====>  
UPPERCASE

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