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File-AID/MVS

ROSCOE Users Installation Addendum

Release 10.2

Please direct questions about File-AID/MVS
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Chapter 1.

Installation Overview

This manual describes procedures that are specific to installing File-AID for ROSCOE users. Use the *File-AID Single Install Image Installation and Configuration Guide* for general installation information.

Compuware recommends using the installation instructions in the *File-AID Single Install Image Installation and Configuration Guide* to perform the File-AID/MVS installation procedure when you have access to a TSO ID which is required for this process.

Install Steps for TSO ID

1. Use the installation instructions in the *File-AID Single Install Image Installation and Configuration Guide* to install and configure File-AID/MVS.
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.

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 libraries, CPWR.MXVJA20.CXVJLOAD and CPWR.MXVJA20.SXVJLOAD, to the ETSOLIB DD statement in your ROSCOE start-up JCL.
- Copy the File-AID load libraries to an existing library allocated to ETSOLIB.
- Allocate the File-AID load libraries to ISPLLIB in the RPF. See Step 2.

Note: If the File-AID SVC is accessed, members XFASPF, XVJSPFMN, XVJCOMMN, and XVJUTLTY must be placed in an APF-authorized library.

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 XFARPF resides in the PDS that contains the File-AID sample library (SXVJSAMP). 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
  ISPLIB DISP=SHR
  BLKSIZE=6160
  DSNAME=(CPWR.MXVJA20.SXVJPENU
    SYS4.ISR.V3R1MO.ISRPLIB
    SYS4.ISP.V3R1MO.ISPPLIB)
ENDALLOC
ALLOCATE                                : ALLOCATE MESSAGE LIBRARIES
  ISPLIB DISP=SHR
  BLKSIZE=6160
  DSNAME=(CPWR.MXVJA20.SXVJMENU
    SYS4.ISR.V3R1MO.ISRMLIB
    SYS4.ISP.V3R1MO.ISPMLIB)
ENDALLOC
ALLOCATE                                : ALLOCATE SKELETON LIBRARIES
  ISPLIB DISP=SHR
  BLKSIZE=6160
  DSNAME=(CPWR.MXVJA20.SXVJSENU
    SYS4.ISR.V3R1MO.ISRSLIB
    SYS4.ISP.V3R1MO.ISPSLIB)
ENDALLOC
ALLOCATE                                : ALLOCATE TABLE LIBRARIES
  ISPTLIB DISP=SHR
  BLKSIZE=6160
  DSNAME=(CPWR.MXVJA20.SXVJTENU
    SYS4.ISR.V3R1MO.ISRTLIB
    SYS4.ISP.V3R1MO.ISPTLIB)
ENDALLOC
CALL ISPSTART 'PANEL(XFAMU01) 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=*
//SYSUDUMP  DD   SYSOUT=*
/**
//SYSIN     DD   DSN=?????.ROSCOE.V570.SOURCE(ETSSUB),DISP=SHR
//SYSLIN    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=*
//SYSUDUMP  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.

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.

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