



Program Directory for Document Library Facility

Release 3, Modification Level 0

Program Number 5748-XXE

FMID HSL1302

for Use with
MVS

CBPDO Level SMC9827

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Note!

Before using this information and the product it supports, be sure to read the general information under “Notices” on page vii.

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APAR numbers are provided in this document to assist in locating PTFs that may be required. Ongoing problem reporting may result in additional APARs being created. Therefore, the APAR lists in this document may not be complete. To obtain current service recommendations and to identify current product service requirements, always contact the IBM Customer Support Center.

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1.0 Introduction

This program directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of Document Library Facility. This publication refers to Document Library Facility as DLF For MVS. You should read all of this program directory before installing the program and then keep it for future reference.

The program directory contains the following sections:

- 2.0, "Program Materials" on page 3 identifies the basic and optional program materials and documentation for DLF For MVS.
- 3.0, "Program Support" on page 7 describes the IBM support available for DLF For MVS.
- 4.0, "Program and Service Level Information" on page 9 lists the APARs (program level) and PTFs (service level) incorporated into DLF For MVS.
- 5.0, "Installation Requirements and Considerations" on page 11 identifies the resources and considerations for installing and using DLF For MVS.
- 6.0, "Installation Instructions" on page 17 provides detailed installation instructions for DLF For MVS.
- 6.2, "Installation Verification Procedure" on page 22 provides information on the installation verification procedures.
- 6.2.1, "Post Install Considerations" on page 23 provides information on post installation.
- Appendix A, "DLF For MVS Install Logic" on page 25 provides the install logic for DLF For MVS.

Before installing DLF For MVS, read 3.2, "Preventive Service Planning" on page 7. This section tells you how to find any updates to the information and procedures in this program directory.

Do not use this program directory if you are installing DLF For MVS with an MVS Custom-Built Installation Process Offering (CBIPO), SystemPac, or ServerPac. When using these offerings, use the jobs and documentation supplied with the offering. This documentation may point you to specific sections of the program directory as required.

If you are installing DLF For MVS using the MVS Custom-Built Product Delivery Offering (CBPDO) (5751-CS3), use the softcopy program directory provided on the CBPDO tape. Your CBPDO contains a softcopy preventive service planning (PSP) upgrade for this product. All service and HOLDDATA for DLF For MVS are included on the CBPDO tape.

1.1 DLF For MVS Description

DLF For MVS is a storage facility that stores, archives (stores on a separate, sequential data set), and retrieves data in a protected environment. It includes calling sequences that can be used to invoke DLF For MVS as a subroutine of a user-written program, to call special processors to handle data conversion or manipulation, or to invoke user exit routines. If DCF is installed, you can use DLF For MVS to run the SCRIPT/VS formatter in the batch environments of MVS.

DLF For MVS is either run as a batch job or invoked as a callable subroutine. DLF For MVS can be installed in the batch environments of the MVS operating system, provided Virtual Storage Access Method (VSAM) and the Access Method Services are available. DCF can also be installed with DLF For MVS in these batch environments, but it is not required unless the SCRIPT/VS formatter is to be used.

1.2 DLF For MVS FMID

DLF For MVS consists of the following FMID:

HSL1302

2.0 Program Materials

An IBM program is identified by a program number and a feature number. The program number for DLF For MVS is 5748-XXE.

Basic Machine-Readable Materials are materials that are supplied under the base license and feature code, and are required for the use of the product. Optional Machine-Readable Materials are orderable under separate feature codes, and are not required for the product to function.

The program announcement material describes the features supported by DLF For MVS. Ask your IBM representative for this information if you have not already received a copy.

2.1 Basic Machine-Readable Material

The distribution medium for this program is 9-track magnetic tape (written at 6250 BPI) or 3480 or 4mm cartridge. The tape or cartridge contains all the programs and data needed for installation. It is installed using SMP/E, and is in SMP/E RELFILE format. See 6.0, "Installation Instructions" on page 17 for more information about how to install the program.

Figure 1 describes the tape or cartridge. Figure 2 describes the file content of the program tape or cartridge.

Note: If you are installing DLF For MVS using the MVS Custom-Built Product Delivery Offering (CBPDO) (5751-CS3), some of the information in these figures may not be valid. Consult the CBPDO documentation for actual values.

Figure 1. Basic Material: Program Tape

Medium	Feature Number	Physical Volume	External Label Identification	VOLSER
6250 cart.	5195	1	48XXEM0R35195	SL1302
3480 cart.	5862	1	48XXEM0R35862	SL1302
4mm cart.	5701	1	48XXEM0R35701	SL1302

Figure 2 (Page 1 of 2). Program Tape: File Content

VOLSER	File	Name	Dist Library	RECFM	LRECL	BLK SIZE
SL1302	1	SMPMCS	--	FB	80	8800
	2	IBM.HSL1302.F1	JCLIN	FB	80	8800
	2	IBM.HSL1302.F2	DLFDIST	U	0	6144

Figure 2 (Page 2 of 2). Program Tape: File Content

VOLSER	File	Name	Dist Library	RECFM	LRECL	BLK SIZE
	3	IBM.HSL1302.F3	ADLFMACS ADLFSAMP	FB	80	3120
	4	IBM.HSL1302.F4	ADLFASM	FB	80	3120

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for DLF For MVS.

2.3 Program Publications

The following sections identify the basic and optional publications for DLF For MVS.

2.3.1 Basic Program Publications

Figure 3 identifies the basic program publications for DLF For MVS. One copy of each of these publications is included when you order the basic materials for DLF For MVS. For additional copies, contact your IBM representative.

Figure 3. Basic Material: Licensed Publications

Publication Title	Form Number
Document Library Facility Licensed Program Specifications	GH20-9164
Document Library Facility Diagnosis Guide	SY35-0071
Document Library Facility Diagnosis Reference	LY35-0072

2.3.2 Optional Program Publications

No optional publications are provided for DLF For MVS.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for DLF For MVS.

2.5 Publications Useful During Installation

No additional publications are provided for DLF For MVS., but are useful to the installation and execution of this product. You can order publications by contacting your IBM representative.

<i>Figure 4. Publications Useful During Installation</i>	
Publication Title	Form Number
<i>Document Composition Facility and Document Library Facility: General Information</i>	GH20-9158
<i>Document Composition Facility and Document Library Facility: Executive Overview and Product Summary</i>	GX20-2332
<i>Document Library Facility Guide</i>	SH20-9165
<i>Document Library Facility Messages</i>	SH35-0049
<i>OS/390 SMP/E Commands</i>	SC28-1805
<i>OS/390 SMP/E Reference</i>	SC28-1806
<i>OS/390 SMP/E User's Guide</i>	SC28-1740
<i>OS/390 SMP/E Messages and Codes</i>	SC28-1738
<i>SMP/E Reference</i>	SC28-1107
<i>SMP/E User's Guide</i>	SC28-1302
<i>SMP/E Messages and Codes</i>	SC28-1108
<i>OS/390 MVS JCL Reference</i>	GC28-1757
<i>MVS/ESA V5 JCL Reference</i>	GC28-1479
<i>MVS/ESA V4 JCL Reference</i>	GC28-1654

3.0 Program Support

This section describes the IBM support available for DLF For MVS.

3.1 Program Services

Contact your IBM representative for specific information about available program services.

3.2 Preventive Service Planning

Before installing DLF For MVS, check with your IBM Support Center or use SoftwareXcel Extended (IBMLink) to see whether there is additional Preventive Service Planning (PSP) information that you should know. To obtain this information, specify the following UPGRADE and SUBSET values:

Figure 5. PSP Upgrade and Subset ID

UPGRADE	SUBSET	RETAIN Release
DCF140	HSL1302/9827	300

3.3 Statement of Support Procedures

Report any difficulties you have using this program to your IBM Support Center. If an APAR is required, the Support Center will provide the address to which any needed documentation can be sent.

Figure 6 identifies the component ID (COMPID) for DLF For MVS.

Figure 6. Component ID

FMID	COMPID	Component Name	RETAIN Release
HSL1302	5748XXE00	DLF	300

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of DLF For MVS. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated. Information about the cumulative service tape is also provided. This DLF For MVS is at CBPDO level 9827.

4.1 Program Level Information

The following APAR fixes against previous releases of DLF For MVS have been incorporated into this release.

AL00566	AL63734	AP31979	AP44269
AL02847	AN83969	AP32028	AP44543
AL07567	AP22737	AP32029	AP45842
AL13001	AP31368	AP32032	AP46220
AL29589	AP31955	AP37908	AP48472
AL31092	AP31960	AP38835	AP48666
AL35919	AP31964	AP39086	AP50928
AL48730	AP31965	AP42610	AP52393
AL48733	AP31966	AP44267	AQ16495
AL59612			

4.2 Service Level Information

PTFs containing APAR fixes against this release of DLF For MVS have been incorporated into this product tape.

UL00745-PUT8606	UL75814-PUT9005	UP61816-PUT8507
UL01704-PUT8607	UL90020-PUT8709	UP68655-PUT8602
UL03195-PUT8609	UN98513-PUT9612	UP68906-PUT8604
UL16255-PUT8708	UP45660-PUT8501	UP73087-PUT8604
UL35208-PUT8807	UP48200	UP73089-PUT8604
UL39101-PUT8808	UP49292-PUT8409	UP73154-PUT8604
UL44534-PUT8902	UP49429-PUT8409	UP76528-PUT8605
UL60495-PUT8908	UP58109-PUT8505	UP90233-PUT8507
UL65102-PUT9001	UP60441-PUT8507	UP90235-PUT8507
UL75507-PUT9005	UP61277-PUT8507	UQ19038

4.3 Cumulative Service Tape

A cumulative service tape, containing PTFs not incorporated into this release, might be included with this program. Installation instructions for cumulative service tapes can be found in the SMP/E publications.

If you received this product as part of a CBPDO or a ProductPac, PTFs not incorporated into this release are provided on the tape, and a separate cumulative service tape will not be provided.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating DLF For MVS. The following terminology is used:

- *Driving system*: the system used to install the program.
- *Target system*: the system on which the program is installed.

In many cases, the same system can be used as both a driving system and a target system. However, you may want to set up a clone of your system to use as a target system by making a separate IPL-able copy of the running system. The clone should include copies of all system libraries that SMP/E updates, copies of the SMP/E CSI data sets that describe the system libraries, and your PARMLIB and PROCLIB.

Some cases where two systems should be used include the following:

- When installing a new level of a product that is already installed, the new product will delete the old one. By installing onto a separate target system, you can test the new product while still keeping the old one in production.
- When installing a product that shares libraries or load modules with other products, the installation can disrupt the other products. Installing onto a test system or clone will allow you to assess these impacts without disrupting your production system.

5.1 Driving System Requirements

This section describes the environment of the driving system required to install DLF For MVS.

5.1.1 Machine Requirements

The driving system can run in any hardware environment that supports the required software as described in 5.2.1, "Operating System Requirements" on page 12

5.1.2 Programming Requirements

Figure 7. Driving System Software Requirements

Program Number	Product Name and Minimum VRM/Service Level
5668-949	System Modification Program/Extended (SMP/E) 1.8.0 or higher

5.2 Target System Requirements

This section describes the environment of the target system required to install and use DLF For MVS.

5.2.1 Operating System Requirements

Figure 8. Driving System Software Requirements

Program Number	Product Name and Minimum VRM/Service Level
5695-047	MVS/ESA SP JES2 Version 4 Release 3 or higher
5695-048	MVS/ESA SP JES3 Version 4 Release 3 or higher

5.2.2 Machine Requirements

The target system can run in any hardware environment that supports the required software.

5.2.3 Programming Requisites

5.2.3.1 Minimum Requisites

A minimum requisite is defined as one of the following:

1. *Installation Requisite:* A product that is required at installation time. i.e. this product **will not install** successfully unless this requisite is met. This includes products that are specified as REQs, PREs, or CALLLIBs.
2. *Run Time Requisite:* A product that is **not** required for the successful installation of this product, but **is** needed at run time in order for this product to work.

Figure 9. Minimum Requisites

Program Number	Product Name and Minimum VRM/Service Level	Install Req?
5668-949	System Modification Program/Extended (SMP/E) 1.8.0 or higher	Yes

5.2.3.2 Functional Requisites

A functional requisite is defined as a product that is *not* required for the successful installation of this product or for the base function of the product, but *is* needed at run time for a specific function of this product to work. This includes products that are specified as IF REQs.

Figure 10 (Page 1 of 2). Functional Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function	Install Req?
5748-XX9	Document Composition Facility Version 1 Release 4 or higher	SCRIPT/VS Formatter	No
Any one of the following:			

<i>Figure 10 (Page 2 of 2). Functional Requisites</i>			
Program Number	Product Name and Minimum VRM/Service Level	Function	Install Req?
5695-DF1	DFSMS Version 1 or higher	VSAM	No
5665-XA3	DFP Version 3 or higher	VSAM	No
5645-001	OS/390 Version 1 or higher	VSAM	No

5.2.3.3 Toleration/Coexistence Requisites

A toleration/coexistence requisite is defined as a product which must be present on a sharing system. These systems can be other systems in a multisystem environment (not necessarily sysplex), a shared DASD environment (such as test and production), or systems that reuse the same DASD at difference time intervals. DLF does not have any toleration requisites.

5.2.3.4 Special Considerations

None

5.2.4 DASD Storage Requirements

DLF For MVS libraries can reside on any IBM MVS supported DASD.

Figure 11 lists the total space required for each type of library.

<i>Figure 11. Total DASD Space Required (in 3390 tracks) by DLF For MVS</i>	
Library Type	Total Space Required
Target	16 tracks
Distribution	22 tracks

Notes:

1. You may wish to revise these numbers based on your plans for adding additional function or service.
2. IBM recommends use of system determined blocksizes for efficient DASD utilization for all non-RECFM U data sets. For RECFM U data sets, IBM recommends a blocksize of 32760, which is the most efficient from a performance and DASD utilization perspective.

If you choose not to use system determined blocksizes, use the blocksizes and numbers of blocks specified to allocate the data sets. Data sets can be reblocked to a larger size. Please note that the maximum allowable blocksize will depend on the type of DASD on which the dataset will reside; for example, the blocksize of datasets on a 3350 DASD cannot exceed 19,069.

3. Abbreviations used for the data set type are:

- U** Unique data set used by only the FMID listed. In order to determine the correct storage needed for this data set, this table provides all required information; no other tables (or program directories) need to be referenced for the data set size.
- S** Shared data set used by more than the FMID listed. In order to determine the correct storage needed for this data set, the storage size given in this table needs to be added to other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.

If you currently have a previous release of this product installed in these libraries, the installation of this release will delete the old one and reclaim the space used by the old release and any service that had been installed. You can determine whether or not these libraries have enough space by deleting the old release with a dummy function, compressing the libraries, and comparing the space requirements with the free space in the libraries.

For more information on the names and sizes of the required data sets, please refer to 6.1.7, "Allocate SMP/E Target and Distribution Libraries" on page 20.

Figure 12. Storage Requirements for SMP/E Work Data Sets

Library DDNAME	T Y P E	D S O R G	R E C F M	L R E C L	No. of Blks	BLK SIZE	No. of 3380/ 9345 Trks	No. of 3390 Trks	No. of DIR Blks
SMPWRK1	S	PO	FB	80	--	--	--	75	50
SMPWRK2	S	PO	FB	80	--	--	--	75	50
SMPWRK3	S	PO	FB	80	--	--	--	75	50
SMPWRK4	S	PO	FB	80	--	--	--	75	50
SMPWRK6	S	PO	FB	80	--	--	--	75	50
SYSUT1	U	PS	--	--	--	--	--	75	0
SYSUT2	U	PS	--	--	--	--	--	75	0
SYSUT3	U	PS	--	--	--	--	--	75	0
SYSUT4	U	PS	--	--	--	--	--	75	0

The following table provides an estimate of the storage needed in the SMP/E data sets for DLF For MVS. The estimates must be added to those of any other programs and service being installed to determine the total additional storage requirements.

<i>Figure 13. Storage Requirements for SMP/E Data Sets</i>									
Library DDNAME	T Y P E	D S O R G	R E C F M	L R E C L	No. of Blks	BLK SIZE	No. of 3380/ 9345 Trks	No. of 3390 Trks	No. of DIR Blks
SMPMTS	S	PO	FB	80	16	6160	--	2	1
SMPPTS	S	PO	FB	80	48	6160	--	6	1
SMPSCDS	S	PO	FB	80	16	6160	--	2	1
SMPSTS	S	PO	FB	80	16	6160	--	2	1

The following figures list the target and distribution libraries (data sets) and their attributes required to install DLF For MVS. The storage requirements of DLF For MVS must be added to the storage required by other programs having data in the same data set (library). A 10% additional growth factor has been added into the library size.

Figure 14. Storage Requirements for DLF For MVS Target Libraries							
Library DDNAME	T Y P E	D S O R G	R E C F M	L R E C L	No. of Blks	BLK SIZE	No. of DIR Blks
DLFLOAD	U	PO	U	0	51	6144	1
DLFASM	U	PO	FB	80	93	3120	1
DLFMACS	U	PO	FB	80	10	3120	1
DLFSAMP	U	PO	FB	80	13	3120	1

<i>Figure 15. Storage Requirements for DLF For MVS Distribution Libraries</i>							
Library DDNAME	T Y P E	D S O R G	R E C F M	L R E C L	No. of Blks	BLK SIZE	No. of DIR Blks
DLFDIST	U	PO	U	0	101	6144	12
ADLFASM	U	PO	FB	80	93	3120	1
ADLFMACS	U	PO	FB	80	10	3120	1
ADLFSAMP	U	PO	FB	80	13	3120	1

5.3 FMID Deleted

Installing DLF For MVS will result in the deletion of the following FMID:

Figure 16. FMID Deleted

Deleted FMID	Deleting FMID	Description
HSL1202	HSL1302	DLF
HSL1102	HSL1302	DLF

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of DLF For MVS.

Please note the following:

- If you want to install DLF For MVS into its own SMP/E environment, consult the SMP/E manuals for instructions on creating and initializing the SMP/CSI and the SMP/E control data sets.
- Sample jobs have been provided to help perform some or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries required for SMP/E execution have been defined in the appropriate zones.
- The SMP/E dialogs may be used instead of the sample jobs to accomplish the SMP/E installation steps.

6.1 Installing DLF For MVS

6.1.1 SMP/E Considerations for Installing DLF For MVS

This release of DLF For MVS is installed using the SMP/E RECEIVE, APPLY, and ACCEPT commands. The SMP/E dialogs may be used to accomplish the SMP/E installation steps.

6.1.2 SMP/E Environment

Sample jobs are provided to assist you in installing DLF For MVS. After the RECEIVE step has been completed, the sample jobs can be found in SMPTLIB: **IBM.HSL1302.F3**. Make a copy of these jobs in your own library and modify them to use during the installation of DLF For MVS.

Note: Prior to the RECEIVE step, the sample jobs are to be unloaded from the product tape itself.

The sample jobs are:

DSMIVL3A	Sample job to allocate target and distribution libraries
DSMIVL3B	Sample DDDEF job
DSMIVL3E	Sample RECEIVE job
DSMIVL3F	Sample APPLY CHECK job
DSMIVL3G	Sample APPLY job
DSMIVL3H	Sample ACCEPT CHECK job
DSMIVL3I	Sample ACCEPT job

6.1.3 SMP/E Options Subentry Values

The recommended values for some SMP/E CSI subentries are shown in Figure 17 on page 18. Use of values lower than these may result in failures in the installation process. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. Refer to the SMP/E manuals for instructions on updating the global zone.

Figure 17. SMP/E Options Subentry Values

SUB-ENTRY	Value	Comment
DSSPACE	(150,150,100)TRK	Recommended value for DLF For MVS
PEMAX	9999	The SMP/E default is larger than what can be specified here

6.1.4 Unload Sample Jobs from Product Tape

Sample installation jobs are provided on the distribution tape to help you install DLF For MVS. The following sample job will copy the DLF For MVS installation jobs from the tape. Add a job card and modify the parameters in boldface to uppercase values to meet your site's requirements before submitting.

```
//STEP1    EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=A
//IN       DD DSN=IBM.HSL1302.F3,UNIT=tunit,VOL=SER=SL1302,
//         LABEL=(4,SL),DISP=(OLD,KEEP)
//OUT      DD DSNAME=DLF.jc1lib,
//         DISP=(NEW,CATLG,DELETE),
//         VOL=SER=dasdvol,UNIT=dunit,
//         DCB=*,STEP1.IN,SPACE=(8800,(5,2,5))
//SYSUT3   DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//SYSIN    DD *
          COPY INDD=IN,OUTDD=OUT
/*
```

Figure 18. Unload - Sample Unload tape job

where **tunit** is the unit value matching the product tape or cartridge, **DLF.jc1lib** is the name of the data set where the sample jobs will reside, **dasdvol** is the volume serial of the DASD device where the data set will reside, and **dunit** is the DASD unit type of the volume.

All future references will be to the sample data set name *DLF.jc1lib* in this program directory.

You can also access the sample installation jobs by performing an SMP/E RECEIVE for FMID HSL1302, and then copying the jobs from data set **hlq.IBM.HSL1302.F3** to a work dataset for editing and submission.

6.1.5 DELETE Previous Level of DLF For MVS, if applicable

If you are replacing a lower service level of DLF For MVS, it is recommended to delete DLF For MVS from the system prior to installing the new service level of DLF For MVS. Since integrated service has deleted and added members in DLF For MVS, deleting the previous level will assure the accuracy of the SMP/E environment.

The JCL in Figure 19 is a sample job to DELETE DLF For MVS prior to installing the service updated DLF For MVS. Create JCL similar to this example, modify the job to specify the appropriate parameters for your installation, then run the job.

Note: This step is run only if you are replacing a lower service level of the DLF For MVS product, FMID HSL1302.

```
//DELFUNCT JOB 'account #','name',MSGLEVEL=(1,1)
//*****
/* JOB TO DELETE PREVIOUS LEVEL OF DLF
/* MAKE THE FOLLOWING MODIFICATIONS:
/* 1) CHANGE THE JOB CARD TO MEET YOUR LOCAL REQUIREMENTS
/* 2) CHANGE #globalcsi TO THE DATA SET NAME OF YOUR
/*    GLOBAL CSI DATA SET
/* 3) CHANGE #tzone TO THE NAME OF YOUR TARGET ZONE
/* 4) CHANGE #dzone TO THE NAME OF YOUR DISTRIBUTION ZONE
/*
//*****
//DELETE EXEC PGM=GIMSMP,REGION=4096K
//SMPCSI DD DSN=#globalcsi,
//        DISP=SHR
//SMPPTFIN DD *
++FUNCTION(DELFUNCT).
++VER(Z038) DELETE(HSL1302).
//SMP.SMPCNTL DD *
  SET BDY(GLOBAL).
  RECEIVE SELECT(DELFUNCT)      /* RECEIVE THE FUNCTION */.

  SET BDY(#tzone).
  APPLY SELECT(DELFUNCT)       /* APPLY THE FUNCTION */.

  SET BDY(#dzone).
  ACCEPT SELECT(DELFUNCT)      /* ACCEPT THE FUNCTION */.

  SET BDY(#tzone)              /* DELETE SYSMOD ENTRY */.
  UCLIN                        /* FROM THE TARGET ZONE */.
  DEL SYSMOD(HSL1302).
  ENDUCL.
```

```

SET BDY(#dzone)          /* DELETE SYSMOD ENTRY */.
UCLIN                    /* FROM THE DLIB ZONE */.
DEL SYSMOD(HSL1302).
ENDUCL.

SET BDY(GLOBAL)          /* DELETE SYSMOD ENTRY */
                          /* FROM THE GLOBAL ZONE */.

REJECT HOLDDATA NOFMID
      DELETFMID
      (DELFUNC,HSL1302).
/*

```

Figure 19 (Part 2 of 2). DELETE Job to delete previous level of DLF For MVS

Expected Return Codes and Messages: A return code of '4' should be received from this job.

6.1.6 Perform SMP/E RECEIVE

Edit and submit sample job DSMIVL3E in *DLF.jcllib* to perform the SMP/E RECEIVE for DLF For MVS.

You will need to modifications to this job. Follow the comments in the job.

Note: If you obtained DLF For MVS as part of a CBPDO, you can use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the DLF For MVS FMID as well as any service, HOLDDATA, or preventive service planning (PSP) information included on the CBPDO tape. For more information, refer to the documentation included with the CBPDO.

Expected Return Codes and Messages:

Return code 0 is to be posted for all job steps.

6.1.7 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job DSMIVL3A in *DLF.jcllib* to allocate the SMP/E target and distribution libraries for DLF For MVS.

You will need to make modifications to this job. Follow the comments in the job.

DLFLOAD must be an authorized program library.

If installing the DCF DLF Environment Feature (JSR1311) the DLFLOAD space allocation should be (CYL,(20,10,10).

Expected Return Codes and Messages:

Return code 0 is to be posted for all job steps.

6.1.8 DDDEF Entries - Adding to your SMP/E Procedure

Job DSMIVL3B defines the DDDEFs which are needed to install DLF For MVS.

You will need to make modifications to this job. Follow the comments in the job.

Expected Return Codes and Messages:

Return code 0 if the DDDEFs previously existed rc 4 if they did not. You will get message GIM27701W if DDDEF entry was added instead of replaced.

6.1.9 Perform SMP/E APPLY CHECK

Edit and submit sample job DSMIVL3F in *DLF.jcllib* to perform an SMP/E APPLY CHECK for DLF For MVS.

You will need to make modifications to this job. Follow the comments in the job.

Expected Return Codes and Messages:

Return code 0 or 4 is received for all job steps with messages for DLF For MVS. The Return code is based on the level of SMP/E and/or the binder of the operating system.

Messages GIM23903W or GIM23913W depending on the SMP/E service level that you have on your driving system during Link-Edit processing for modules. The return code is 04 and is acceptable.

Message IEW2609W for conflicting link edit attributes when using the binder. The return code is 04 and is acceptable.

6.1.10 Perform SMP/E APPLY

Edit and submit sample job DSMIVL3G in *DLF.jcllib* to perform an SMP/E APPLY for DLF For MVS.

You will need to make modifications to this job. Follow the comments in the job.

Return code 0 or 4 is received for all job steps with messages for DLF For MVS. The Return code is based on the level of SMP/E and/or the binder of the operating system.

Messages GIM23903W or GIM23913W depending on the SMP/E service level that you have on your driving system during Link-Edit processing for modules. The return code is 04 and is acceptable.

Message IEW2609W for conflicting link edit attributes when using the binder. The return code is 04 and is acceptable.

6.1.11 Perform SMP/E ACCEPT CHECK

Edit and submit sample job DSMIVL3H in *DLF.jcllib* to perform an SMP/E ACCEPT CHECK for DLF For MVS.

You will need to make modifications to this job. Follow the comments in the job.

Expected Return Codes

Return code 0 is received for all job steps if DLF For MVS is being installed.

6.1.12 Perform SMP/E ACCEPT

Edit and submit sample job DSMIVL3I in *DLF.jcllib* to perform an SMP/E ACCEPT for DLF For MVS.

You will need to make modifications to this job. Follow the comments in the job.

Expected Return Codes :

Return code 0 is received for all job steps if DLF For MVS is being installed.

6.2 Installation Verification Procedure

Use the DLF For MVS Installation Verification Procedure (IVP) to ensure that DLF For MVS has been correctly installed. Three jobs have been placed in the data set DLF.R30.DLFSAMP that can be used for the IVP. The installation verification jobs described in steps 2 through 4 are included as members DSMIVL30, DSMIVL31, and DSMIVL32 in the DLFSAMP target library. Edit these JCL statements to fit your installation and then use them to run the sample IVP.

1. If you choose, define a VSAM user catalog. Refer to *Access Method Services*, for information on VSAM catalogs and the use of the DEFINE commands. In order to have password protect the catalog in which the document library data sets are defined.
2. Define the VSAM data sets for the document library, either in the VSAM master catalog or in a user catalog. You must use the VSAM Access Method Services DEFINE CLUSTER command to create each of the two required data sets.
3. Use DSMSPXEC to set up a test document library. To initialize the library, issue a DEFINE SYSTEM command followed by a DEFINE USER command for a DLF administrator in the same JOB step. Refer to the *Document Library Facility Guide* for more information on setting up a document library.

Note: Columns 73-80 of DLF command statements are not reserved for sequence numbers. To avoid command statement errors, be sure these statements are not sequenced numbered.

You can expect the following system messages at this time. They can be ignored.

```
IEC130I  DSMINDIR DD statement missing
IEC070I  104-203, ...,... DSMPTLIB
```

4. Execute the job containing sample DLF commands. You can verify that the DLF has been correctly installed by executing a typical IMPORT and EXPORT function. In this case the output produced by EXPORT is a copy of the sample data included for the IMPORT command.

6.2.1 Post Install Considerations

If you are a new DLF user, define the document library for your installation as described in the *Document Library Facility Guide* Chapter 6, 'Setting Up the Document Library'.

If you are currently using Release 1 of DLF, the structure of the library data sets changed from Release 1 to Release 3. Appendix A of the *Document Library Facility Guide*, describes the process for converting from Release 1 to Release 3.

If you are currently using Release 2 of DLF, the structure of the data sets is the same for Release 3. No conversion is required.

Appendix A. DLF For MVS Install Logic

A.1 SMP/E Modification Control Statements

A.1.1 For FMID HSL1302

```
++FUNCTION(HSL1302 ) FESN(6296503 ) REWORK(1998180 )
                                RFDSNPFX(IBM      ) FILES(4)

/*
THIS PRODUCT CONTAINS RESTRICTED MATERIALS OF IBM
- 5748-XXE COPYRIGHT IBM CORP 1978, 1983
  LICENSED MATERIAL - PROGRAM
  PROPERTY OF IBM
  REFER TO COPYRIGHT INSTRUCTIONS
  FORM NUMBER G120-2083

*/
.
++VER(Z038      ) DELETE(HSL1200 HSL1202 )
                        SUP(AL00566 AL02847 AL07567 AL13001 AL29589
                           AL31092 AL35919 AL48730 AL48733 AL59612
                           AL63734 AN83969 AP22737 AP31368 AP31955
                           AP31960 AP31964 AP31965 AP31966 AP31979
                           AP32028 AP32029 AP32032 AP37908 AP38835
                           AP39086 AP42610 AP44267 AP44269 AP44543
                           AP45842 AP46220 AP48472 AP48666 AP50928
                           AP52393 AQ16495 UL00745 UL01704 UL03195
                           UL16255 UL35208 UL39101 UL44534 UL60495
                           UL65102 UL75507 UL75814 UL90020 UN98513
                           UP45660 UP48200 UP49292 UP49429 UP58109
                           UP60441 UP61277 UP61816 UP68655 UP68906
                           UP73087 UP73089 UP73154 UP76528 UP90233
                           UP90235 UQ19038 ) .
++IF FMID(JSR1311 ) REQ(UP68904 ) .
++JCLIN                                RELFILE(1) .
```

The SMP/E Modification Control Statements (SMPMCS) for DLF For MVS are contained in the SMPMCS file on the installation tape. The SMPMCS for the FMID in the product will be loaded to the SMPPTS dataset, with a member name matching the FMID, when the FMID is SMP/E RECEIVED. You may browse or print these members using TSO/E, ISPF, or IEBGENER (or IEBPTPCH).

Appendix B. Reader's Comments

Program Directory for Document Library Facility Release 3, Modification Level 0 SMC9827

You may use this form to comment about this document, its organization, or subject matter with the understanding that IBM may use or distribute whatever information you supply in any way it believes appropriate without incurring any obligation to you.

For each of the topics below please indicate your satisfaction level by circling your choice from the rating scale. If a statement does not apply, please circle N.

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	Satisfaction					
Ease of product installation	1	2	3	4	5	N
Contents of program directory	1	2	3	4	5	N
Installation Verification Programs	1	2	3	4	5	N
Time to install the product	1	2	3	4	5	N
Readability and organization of program directory tasks	1	2	3	4	5	N
Necessity of all installation tasks	1	2	3	4	5	N
Accuracy of the definition of the installation tasks	1	2	3	4	5	N
Technical level of the installation tasks	1	2	3	4	5	N
Ease of getting the system into production after installation	1	2	3	4	5	N

How did you order this product?

- ___ CBIPO
- ___ CBPDO
- ___ CustomPac
- ___ ServerPac
- ___ Independent
- ___ Other

Is this the first time your organization has installed this product?

___ Yes
___ No

Were the people who did the installation experienced with the installation of MVS products?

___ Yes
___ No

If yes, how many years? ___

If you have any comments to make about your ratings above, or any other aspect of the product installation, please list them below:

Please provide the following contact information:

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Organization

Address

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