



Program Directory for Device Support Facilities (ICKDSF)

Release 17

Program Number 5684-042

CMS0H14

for Use with
z/VM Version 4 and higher
z/VM Version 3 Release 1
VM/ESA Version 2 Release 4

Document Date: November 2002

GI10-4514-01

Note

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 36.

This program directory, dated November 2002, applies to Device Support Facilities (ICKDSF) Release 17, Program Number 5684-042 for the following:

COMPID	Feature Numbers	System Name
565899201	5803/5802/5801	VM/ESA and z/VM

A form for reader's comments appears at the back of this publication. When you send information to IBM, you grant IBM a nonexclusive right to use or distribute the information in any way it believes appropriate without incurring any obligation to you.

© **Copyright International Business Machines Corporation 1982, 2002. All rights reserved.**

Note to U.S. Government Users — Documentation related to restricted rights — Use, duplication or disclosure is subject to restrictions set forth in GSA ADP Schedule Contract with IBM Corp.

Contents

1.0 Introduction	1
1.1 Program Description	1
2.0 Program Materials	2
2.1 Basic Machine-Readable Material	2
2.2 Optional Machine-Readable Material	3
2.3 Program Publications	3
2.3.1 Basic Program Publications	3
2.4 Program Source Materials	3
2.5 Publications Useful During Installation	3
3.0 Program Support	5
3.1 Preventive Service Planning	5
3.2 Statement of Support Procedures	5
4.0 Program and Service Level Information	6
4.1 Program Level Information	6
4.2 Service Level Information	6
4.3 Cumulative Service Tape	6
5.0 Installation Requirements and Considerations	7
5.1 Hardware Requirements	7
5.2 Program Considerations	7
5.2.1 Operating System Requirements	7
5.2.2 Other Program Product Requirements	7
5.2.3 Program Installation and Service Considerations	7
5.3 DASD Storage and User ID Requirements	8
6.0 Installation Instructions	10
6.1 VMSES/E Installation Process Overview	10
6.2 Plan Your Installation For ICKDSF	11
6.3 Allocate Resources for Installing ICKDSF	14
6.3.1 Installing ICKDSF on Minidisk	14
6.3.2 Installing ICKDSF in SFS Directories	14
6.4 Install ICKDSF	16
6.4.1 Update Build Status Table for ICKDSF	19
6.5 Place ICKDSF Into Production	21
6.5.1 Copy ICKDSF Files Into Production	21
7.0 Service Instructions	23
7.1 VMSES/E Service Process Overview	23
7.2 Servicing ICKDSF	24

7.2.1 Prepare to Receive Service	24
7.2.2 Receive the Service	26
7.2.3 Apply the Service	27
7.2.4 Update the Build Status Table	28
7.2.5 Build Serviced Objects	30
7.3 Place the New ICKDSF Service Into Production	30
7.3.1 Copy the New ICKDSF Serviced Files Into Production	30
8.0 The Stand-Alone Program	32
8.1.1 Creating the Stand-Alone Tape	32
8.1.2 Loading the Stand-Alone Tape	33
8.1.3 Verifying the Stand-Alone Tape	33
8.1.4 Maintenance of the Stand-Alone Program	33
Appendix A. Create Product Parameter File (PPF) Override	34
Notices	36
Trademarks and Service Marks	37
Reader's Comments	38

Figures

1. Basic Material: Program Tape	2
2. Program Tape: File Content	2
3. Basic Material: Unlicensed Publications	3
4. Publications Useful During Installation / Service on VM/ESA Version 2.4.0	4
5. Publications Useful During Installation / Service on z/VM Version 3.1.0	4
6. Publications Useful During Installation / Service on z/VM Version 4	4
7. PSP Upgrade and Subset ID	5
8. Component IDs	5
9. DASD Storage Requirements for Target Minidisks	8

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 ICKDSF. 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 2 identifies the basic and optional program materials and documentation for ICKDSF.
- 3.0, “Program Support” on page 5 describes the IBM support available for ICKDSF.
- 4.0, “Program and Service Level Information” on page 6 lists the APARs (program level) and PTFs (service level) incorporated into ICKDSF.
- 5.0, “Installation Requirements and Considerations” on page 7 identifies the resources and considerations for installing and using ICKDSF.
- 6.0, “Installation Instructions” on page 10 provides detailed installation instructions for ICKDSF.
- 7.0, “Service Instructions” on page 23 provides detailed servicing instructions for ICKDSF.
- 8.0, “The Stand-Alone Program” on page 32 provides detailed Stand-alone instructions for ICKDSF.
- Appendix A, “Create Product Parameter File (PPF) Override” on page 34 provides detailed information on overriding the Product Parameter File (PPF).

Before installing ICKDSF, read 3.1, “Preventive Service Planning” on page 5. This section tells you how to find any updates to the information and procedures in this program directory.

1.1 Program Description

The CMS version of ICKDSF is used to initialize, use, and maintain IBM direct storage access devices (DASD) in the VM/ESA and z/VM environments.

2.0 Program Materials

An IBM program is identified by a program number and a feature code. The program number for Device Support Facilities (ICKDSF) is 5684-042.

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

The following sections identify:

- basic and optional program materials available with this program.
- publications useful during installation.

2.1 Basic Machine-Readable Material

The distribution medium for this program is 9-track magnetic tape (written at 6250 BPI), 3480 tape cartridge and 4mm cartridge. The medium contains all the programs and data needed for installation. See section 6.0, "Installation Instructions" on page 10 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.

Figure 1. Basic Material: Program Tape

Medium	Feature Number	Physical Volume	Tape Content	External Tape Label
4mm cartridge	5803	1	ICKDSF R17	CMS0H14OBJR17M0
3480 cartridge	5802	1	ICKDSF R17	CMS0H14OBJR17M0
6250 tape	5801	1	ICKDSF R17	CMS0H14OBJR17M0

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

Tape File	Content
1	Tape Header
2	Tape Header
3	Product Header
4	Product Memo
5	Service Apply Lists
6	PTFPARTs
7	ICKDSF Service

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

Tape File	Content
8	ICKDSF Service
9	ICKDSF Base Code
10	ICKDSF Customization Files
11	ICKDSF Executable Code
12	ICKDSF Help Files

2.2 Optional Machine-Readable Material

There are no optional machine-readable materials for ICKDSF.

2.3 Program Publications

The following sections identify the basic publications for ICKDSF.

2.3.1 Basic Program Publications

IBM no longer ships hardcopy publications. When you order the basic materials for ICKDSF, you can download the ICKDSF publications at <http://www.ibm.com/servers/eserver/zseries/zos/bkserv>

Figure 3. Basic Material: Unlicensed Publications

Publication Title	Form Number
<i>Device Support Facilities User's Guide and Reference Release 17</i>	GC35-0033-24
<i>Device Support Facilities Release 17 System Control Programming Specifications</i>	GC26-3946-21

2.4 Program Source Materials

No program source materials or viewable program listings are provided for ICKDSF.

2.5 Publications Useful During Installation

The publications listed in Figure 4, Figure 5 on page 4, or Figure 6 on page 4, depending on your VM release, may be useful during the installation of ICKDSF. To order copies, contact your IBM representative.

Figure 4. Publications Useful During Installation / Service on VM/ESA Version 2.4.0

Publication Title	Form Number
<i>VM/ESA: VMSES/E Introduction and Reference</i>	GC24-5837
<i>VM/ESA: Service Guide</i>	GC24-5838
<i>VM/ESA: Planning and Administration</i>	SC24-5750
<i>VM/ESA: CMS Command Reference</i>	SC24-5776
<i>VM/ESA: CMS File Pool Planning, Administration, and Operation</i>	SC24-5751
<i>VM/ESA: System Messages and Codes</i>	GC24-5841

Figure 5. Publications Useful During Installation / Service on z/VM Version 3.1.0

Publication Title	Form Number
<i>z/VM: VMSES/E Introduction and Reference</i>	GC24-5947
<i>z/VM: Service Guide</i>	GC24-5946
<i>z/VM: Planning and Administration</i>	SC24-5948
<i>z/VM: CMS Command Reference</i>	SC24-5969
<i>z/VM: CMS File Pool Planning, Administration, and Operation</i>	SC24-5949
<i>z/VM: System Messages and Codes</i>	GC24-5974

Figure 6. Publications Useful During Installation / Service on z/VM Version 4

Publication Title	Form Number
<i>z/VM: CMS Command and Utility Reference</i>	SC24-6010
<i>z/VM: CMS File Pool Planning, Administration, and Operation</i>	SC24-5949
<i>z/VM: Installation Guide</i>	GC24-5992
<i>z/VM: Planning and Administration (z/VM 4.1 and 4.2)</i>	SC24-5995
<i>z/VM: CMS Planning and Administration (z/VM 4.3)</i>	SC24-6042
<i>z/VM: CP Planning and Administration (z/VM 4.3)</i>	SC24-6043
<i>z/VM: Dynamic I/O Configuration Planning and Administration (z/VM 4.3)</i>	SC24-6044
<i>z/VM: Saved Segments Planning and Administration (z/VM 4.3)</i>	SC24-6056
<i>z/VM: Service Guide</i>	GC24-5993
<i>z/VM: System Messages and Codes - CP</i>	GC24-6030
<i>z/VM: System Messages and Codes - CMS</i>	GC24-6031
<i>z/VM: System Messages and Codes - Other Components</i>	GC24-6032
<i>z/VM: VMSES/E Introduction and Reference</i>	GC24-5994

3.0 Program Support

This section describes the IBM support available for ICKDSF.

3.1 Preventive Service Planning

Before installing ICKDSF, check with your IBM Support Center or use IBMLink (ServiceLink) to see whether there is additional Preventive Service Planning (PSP) information. To obtain this information, specify the following UPGRADE and SUBSET values:

Figure 7. PSP Upgrade and Subset ID

Retain			
COMPID	Release	Upgrade	Subset
565899201	H14	ICKDSF017	CMS0H14

Visit <http://www.ibmink.ibm.com/> to get worldwide IBM products and services information.

3.2 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 tell you where to send any needed documentation.

Figure 8 identifies the component ID (COMPID), Retain Release, and Field Engineering Service Number (FESN) for ICKDSF.

Figure 8. Component IDs

Retain			
COMPID	Release	Component Name	FESN
565899201	H14	ICKDSF R17	5499201

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of ICKDSF. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs shipped with this product. Information about the cumulative service tape is also provided.

4.1 Program Level Information

The following APAR fixes against the previous release of ICKDSF have been incorporated into this release.

PN60520	PN67080	PN76862	PN87929	PQ11919	PQ38921
PN60881	PN68358	PN76939	PN88014	PQ13687	PQ42534
PN61480	PN69166	PN77249	PN89166	PQ18005	PQ43495
PN62330	PN69797	PN79757	PN89905	PQ18393	PQ44667
PN62342	PN70013	PN80327	PN91223	PQ20390	PQ46396
PN62444	PN70767	PN80879	PQ00652	PQ20391	PQ47472
PN63044	PN71101	PN83877	PQ02288	PQ23131	PQ49243
PN63507	PN71972	PN84194	PQ03341	PQ24114	PQ50940
PN64655	PN72104	PN84489	PQ05231	PQ24577	PQ53196
PN64868	PN73132	PN84759	PQ07015	PQ26800	PQ53326
PN65609	PN74048	PN85067	PQ08691	PQ29648	PQ56431
PN66540	PN74223	PN85631	PQ10899	PQ32380	PQ62077
PN66541	PN76727	PN86705	PQ11775	PQ37791	

4.2 Service Level Information

Check the ICKDSF017 PSP bucket for any additional PTFs that should be installed or any additional install information.

4.3 Cumulative Service Tape

Cumulative service for ICKDSF Release 17 is available through a monthly corrective service tape, Expanded Service Option, ESO.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating ICKDSF.

5.1 Hardware Requirements

There are no special hardware requirements for ICKDSF.

5.2 Program Considerations

The following sections list the programming considerations for installing and activating ICKDSF. In most cases, you can install ICKDSF on a running system (target system). However, if two systems are required to install ICKDSF, use the following terminology:

- The system used to install the program (driving system).
- The system on which the program is installed (target system).

5.2.1 Operating System Requirements

ICKDSF supports the following VM operating systems:

- z/VM Version 4 and higher
- z/VM Version 3 Release 1
- VM/ESA Version 2 Release 4

RSU9904 service level or above must be applied to VMSES/E on VM/ESA 2.4.0 prior to installing ICKDSF.

5.2.2 Other Program Product Requirements

No other products are required for ICKDSF.

5.2.3 Program Installation and Service Considerations

This section describes items that should be considered before you install or service ICKDSF.

- VMSES/E is required to install and service this product.
- If multiple users install and maintain licensed products on your system, there may be a problem getting the necessary access to MAINT's 51D disk. If you find that there is contention for write access to the 51D disk, you can eliminate it by converting the Software Inventory from minidisk to Shared File System (SFS). See the *VMSES/E Introduction and Reference* manual, section "Changing the Software Inventory to an SFS Directory," for information on how to make this change.

- Customers will no longer install and service ICKDSF strictly using the MAINT user ID, but will use a new user ID--5684042J. This is the IBM suggested user ID name. You are free to change this to any user ID name you wish; however, a PPF override must be created.

Note: It may be easier to make the above PPF override change during the installation procedure 6.2, “Plan Your Installation For ICKDSF” step 6 on page 12, rather than after you have installed this product.

5.3 DASD Storage and User ID Requirements

Figure 9 lists the user IDs, minidisks and default SFS directory names that are used to install and service ICKDSF.

Important Installation Notes:

- User IDs and minidisks or SFS directories will be defined in 6.2, “Plan Your Installation For ICKDSF” on page 11, and are listed here so that you can get an idea of the resources that you will need prior to allocating them.
- 5684042J is a default user ID and can be changed. If you choose to change the name of the installation user ID you need to create a Product Parameter Override (PPF) to reflect this change. This can be done in 6.2, “Plan Your Installation For ICKDSF” step 6 on page 12.
- If you choose to install ICKDSF on a common user ID the default minidisk addresses for ICKDSF may already be defined. If any of the default minidisks required by ICKDSF are already in use you will have to create an override to change the default minidisks for ICKDSF so they are unique.

Figure 9 (Page 1 of 2). DASD Storage Requirements for Target Minidisks

Minidisk owner (user ID)	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			Default SFS Directory Name
5684042J	2B2	3390 3380 9345	8 9 9	10800	1350	Contains all the base code shipped with ICKDSF: VMSYS:5684042J.ICKDSF.OBJECT
5684042J	2C2	3390 3380 9345	2 2 2	2400	300	Contains customization files. This disk may also be used for local modifications: VMSYS:5684042J.ICKDSF.LOCAL
5684042J	2D2	3390 3380 9345	20 24 24	28800	3600	Contains serviced files: VMSYS:5684042J.ICKDSF.DELTA

Note: Cylinder values defined in this table are based on a 4K block size. FB-512 block and SFS values are derived from the 3380 cylinder values in this table. The FBA blocks are listed as 1/2K but should be CMS formatted at 1K size. A total of 10,350 4K blocks are needed for SFS install.

Figure 9 (Page 2 of 2). DASD Storage Requirements for Target Minidisks

Minidisk owner (user ID)	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			Default SFS Directory Name
5684042J	2A6	3390 3380 9345	2 2 2	2400	300	Contains AUX files and software inventory tables that represent the test service level of ICKDSF: VMSYS:5684042J.ICKDSF.ALTAPPLY
5684042J	2A2	3390 3380 9345	2 2 2	2400	300	Contains AUX files and software inventory tables that represent the service level of ICKDSF that is currently in production: VMSYS:5684042J.ICKDSF.PRDAPLY
5684042J	29E	3390 3380 9345	15 18 18	21600	2700	Test build disk. This code will be copied to a production disk, (e.g. MAINT 19E) so the production disk will also require this amount of free space: VMSYS:5684042J.ICKDSF.TEST
5684042J	191	3390 3380 9345	9 10 10	12000	1500	5684042J user ID's 191 minidisk: VMSYS:5684042J
5684042J	29D	3390 3380 9345	2 2 2	2400	300	5684042J user ID's HELP minidisk: VMSYS:5684042J.ICKDSF.BUILDHLP

Note: Cylinder values defined in this table are based on a 4K block size. FB-512 block and SFS values are derived from the 3380 cylinder values in this table. The FBA blocks are listed as 1/2K but should be CMS formatted at 1K size. A total of 10,350 4K blocks are needed for SFS install.

6.0 Installation Instructions

This chapter describes the installation methods and the step-by-step procedures to install and activate ICKDSF.

The step-by-step procedures are in two column format. The steps to be performed are in bold large numbers. Commands for these steps are on the left hand side of the page in bold print. Additional information for a command may exist to the right of the command. For more information about the two column format see "Understanding Dialogs with the System" in the appropriate VM *Installation Guide*.

Each step of the installation instructions must be followed. Do not skip any step unless directed to do so.

Throughout these instructions, the use of IBM-supplied default minidisk addresses and user IDs is assumed. If you use different user IDs, minidisk addresses, or SFS directories to install ICKDSF, adapt these instructions as needed for your environment.

Note

The sample console output presented throughout these instructions was produced on a z/VM 4.2.0 system. If you're installing ICKDSF on a different VM system, the results obtained for some commands may differ from those depicted here.

6.1 VMSES/E Installation Process Overview

The following is a brief description of the main steps in installing ICKDSF using VMSES/E.

- Plan Your Installation

Use the VMFINS command to load several VMSES/E files from the product tape and to obtain ICKDSF resource requirements.

- Allocate Resources

The information obtained from the previous step is used to allocate the appropriate minidisks (or SFS directories) and user IDs needed to install and use ICKDSF.

- Install the ICKDSF Product

Use the VMFINS command to load the ICKDSF product files from tape to the test BUILD and BASE minidisks/directories. VMFINS is then used to update the VM SYSBLDS file used by VMSES/E for software inventory management.

- Place ICKDSF Files into Production

Once the product files have been tailored and the operation of ICKDSF is satisfactory, the product files are copied from the test BUILD disk(s) to production BUILD disk(s).

For a complete description of all VMSES/E installation options refer to *VMSES/E Introduction and Reference*.

6.2 Plan Your Installation For ICKDSF

The VMFINS command will be used to plan the installation. This section has 2 main steps that will do the following:

- Load the first tape file, containing installation files.
- Generate a 'PLANINFO' file listing for the following:
 - all user ID and mdisks/SFS directory requirements.
 - required products.

To obtain planning information for your environment:

1 Log on as ICKDSF installation planner.

This user ID can be **any ID** that has read access to MAINT's 5E5 minidisk and write access to the MAINT 51D minidisk.

2 Mount the ICKDSF installation tape and attach it to the user ID at virtual address 181. The VMFINS EXEC requires the tape drive to be at virtual address 181.

3 Establish read access to the VMSES/E code. The 5E5 disk contains the VMSES/E code.

**link MAINT 5e5 5e5 rr
access 5e5 b**

4 Establish write access to the Software Inventory disk.

**link MAINT 51d 51d mr
access 51d d**

The MAINT 51D disk is where the VMSES/E system-level Software Inventory and other dependent files reside.

Note: If another user already has the MAINT 51D minidisk linked in write mode (R/W), you will only obtain read access (R/O) to this minidisk. If this occurs, you will need to have that user re-link the 51D in read-only mode (RR), and then re-issue the above LINK and ACCESS commands. Do not continue with these procedures until a R/W link is established to the 51D minidisk.

5 Load the ICKDSF product control files to the 51D minidisk.

vmfins install info (nomemo)

The NOMEMO option will load the memos from the tape but will not issue a prompt to send them to the system printer. Specify the MEMO option if you want to be prompted for printing the memo.

This command will perform the following:

- Load Memo-to-Users.
- Load various product control files, including the Product Parameter File (PPF) and the PRODPART files.
- Create VMFINS PRODLIST on your A-disk. The VMFINS PRODLIST contains a list of products on the installation tape.

```
VMFINS2767I Reading VMFINS DEFAULTS B for additional options
VMFINS2760I VMFINS processing started
VMFINS1909I VMFINS PRODLIST created on your A-disk
VMFINS2760I VMFINS processing completed successfully
Ready;
```

6 Obtain resource planning information for ICKDSF.

Notes:

- a. The product will **not** be loaded by the VMFINS command at this time.

vmfins install ppf 5684042J {ickdsf | ickdsfsfs} (plan nomemo)

Use **ickdsf** for installing on minidisks or **ickdsfsfs** for installing in Shared File System directories.

The PLAN option indicates that VMFINS will perform requisite checking, plan system resources, and provide an opportunity to override the defaults in the product parameter file.

You can override any of the following:

- the name of the product parameter file
- the default user IDs
- minidisk/directory definitions

Notes:

- a. If you change the PPF name, a default user ID, or other parameters via a PPF override, you will need to use your changed values instead of those indicated (when appropriate), throughout the rest of the installation instructions, as well as the instructions for servicing ICKDSF. For example, you will need to specify your PPF override file name instead of 5684042J for certain VMSES/E commands.
- b. If you're not familiar with creating PPF overrides using VMFINS, you should review the "Using the Make Override Panel" section in Chapter 3 of the *VMSES/E Introduction and Reference* before you continue.
- c. For more information about changing the VMSYS file pool name refer to Chapter 3 in the *VMSES/E Introduction and Reference*.

```
VMFINS2767I Reading VMFINS DEFAULTS B for additional options
VMFINS2760I VMFINS processing started
VMFINS2601R Do you want to create an override for :PPF 5684042J ICKDSF :PRODID
5684042J%ICKDSF?
Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5684042J ICKDSF :PRODID 5684042J%ICKDSF
VMFREQ2805I Product :PPF 5684042J ICKDSF :PRODID 5684042J%ICKDSF has passed
requisite checking
VMFINT2603I Planning for the installation of product :PPF 5684042J ICKDSF
:PRODID 5684042J%ICKDSF
VMFRMT2760I VMFRMT processing started
VMFRMT2760I VMFRMT processing completed successfully
VMFINS2760I VMFINS processing completed successfully
```

- 7** Review the install message log (\$VMFINS \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate *VM System Messages and Codes*, or use on-line HELP.

vmfview install

6.3 Allocate Resources for Installing ICKDSF

Use the planning information in the 5684042J PLANINFO file, created in the **PLAN** step, create the 5684042J user directory for the following:

- Minidisk install

OR

- SFS install

6.3.1 Installing ICKDSF on Minidisk

- 1** Obtain the user directory from the 5684042J PLANINFO file.

Note: The user directory entry is located in the resource section of the PLANINFO file, at the bottom; these entries will contain all of the links and privilege classes necessary for the 5684042J user ID. Use the directory entry found in PLANINFO as a model as input to your system directory.

- 2** Add the MDISK statements to the directory entry for 5684042J. Use Figure 9 on page 8 to obtain the minidisk requirements.
- 3** Add the 5684042J directory entry to the system directory. Change the password for 5684042J from xxxxx to a valid password, in accordance with your security guidelines.
- 4** Place the new directories on-line using VM/Directory Maintenance (DIRMAINT) or an equivalent CP directory maintenance method.

Note

All minidisks for the 5684042J user ID must be CMS formatted before installing ICKDSF.

6.3.2 Installing ICKDSF in SFS Directories

- 1** Obtain the user directory from the 5684042J PLANINFO file.

Note: The user directory entry is located in the resource section of the PLANINFO file, at the bottom; these entries will contain all of the links and privilege classes necessary for the 5684042J user ID. Use the directory entry found in PLANINFO as a model as input to your system directory.

- 2** Add the 5684042J directory entry to the system directory. Change the password for 5684042J from xxxxx to a valid password, in accordance with your security guidelines.

3 Place the new directories on-line using VM/Directory Maintenance (DIRMAINT) or an equivalent CP directory maintenance method.

4 An SFS installation will also require the following steps:

a Determine the number of 4K blocks that are required for SFS directories by adding up the 4K blocks required for each SFS directory you plan to use.

If you intend to use all of the default ICKDSF SFS directories, the 4K block requirements for the directories are summarized in Figure 9 on page 8.

This information will be used when enrolling the user ID, 5684042J, in the VMSYS filepool.

b Enroll user 5684042J in the VMSYS filepool using the ENROLL USER command:

```
ENROLL USER 5684042J VMSYS: (BLOCKS blocks)
```

where *blocks* is the number of 4K blocks that you calculated in the previous step.

Note: This must be done from a user ID that is an administrator for VMSYS: filepool.

c Determine if there are enough blocks available in the filepool to install ICKDSF. This information can be obtained from the QUERY FILEPOOL STATUS command. Near the end of the output from this command is a list of minidisks in the filepool and the number of blocks free. If the number of blocks free is smaller than the total 4K blocks needed to install ICKDSF, you will need to add space to the filepool. See the *CMS File Pool Planning, Administration, and Operation* manual for information on adding space to a filepool.

d Create the necessary subdirectories listed in the 5684042J PLANINFO file using the CREATE DIRECTORY command.

```
set filepool vmsys:  
create directory vmsys:5684042J.ickdsf  
create directory vmsys:5684042J.ickdsf.object  
create directory vmsys:5684042J.ickdsf.local  
create directory vmsys:5684042J.ickdsf.delta  
create directory vmsys:5684042J.ickdsf.altapply  
create directory vmsys:5684042J.ickdsf.prdapply  
create directory vmsys:5684042J.ickdsf.test  
create directory vmsys:5684042J.ickdsf.buildhlp
```

If necessary, see the *CMS Command Reference* manual for more information about the CREATE DIRECTORY command.

A complete list of default ICKDSF SFS directories is provided in Figure 9 on page 8.

- e If you intend to use an SFS directory as the work space for the 5684042J user ID, include the following IPL control statement in the 5684042J directory entry:

```
IPL CMS PARM FILEPOOL VMSYS
```

This will cause CMS to automatically access the 5684042J's top directory as file mode A.

6.4 Install ICKDSF

The *ppfname* used throughout these installation instructions is **5684042J**, which assumes you are using the PPF supplied by IBM for ICKDSF. If you have your own PPF override file for ICKDSF, you should use your file's *ppfname* instead of **5684042J**. The *ppfname* you use should be used **throughout** the rest of this procedure.

- 1 Logon to the installation user ID **5684042J**.
- 2 Create a PROFILE EXEC that will contain the ACCESS commands for MAINT 5E5 and 51D minidisks.

```
xedit profile exec a
====> input /**/
====> input 'access 5e5 b'
====> input 'access 51d d'
====> file
```

If either 5E5 or 51D is in a shared file system (SFS) then substitute your SFS directory name in the access command.

- 3 Run the profile to access MAINT's minidisks.

profile

- 4 If the Software Inventory disk (51D) was accessed R/O (read only) then establish write access to the Software Inventory disk.

Note: If the MAINT 51D minidisk was accessed R/O, you will need to have the user who has it linked R/W link it as R/O. You then can issue the following commands to obtain R/W access to it.

```
link MAINT 51d 51d mr
access 51d d
```

- 5 Have the ICKDSF installation tape mounted and attached to 5684042J at virtual address 181. The VMFINS EXEC requires the tape drive to be at virtual address 181.
- 6 Install ICKDSF.

Notes:

- a. If you've already created a PPF override file, you should specify your override file name, in place of the default PPF name (5684042J), after the **PPF** keyword for the following VMFINS command.
- b. You may be prompted for additional information during VMFINS INSTALL processing depending on your installation environment. If you're unsure how to respond to a prompt, refer to the "Installing Products with VMFINS" and "Install Scenarios" chapters in the *VMSES/E Introduction and Reference* to decide how to proceed.

vmfins install ppf 5684042J {ickdsf | ickdsfsfs} (nomemo nolink

Use **ickdsf** for installing on minidisks or **ickdsfsfs** for installing in Shared File System directories.

The NOLINK option indicates that you don't want VMFINS to link to the appropriate minidisks, only access them if not accessed.

```

VMFINS2767I Reading VMFINS DEFAULTS B for additional options
VMFINS2760I VMFINS processing started
VMFINS2601R Do you want to create an override for :PPF 5684042J ICKDSF :PRODID
5684042J%ICKDSF?
Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5684042J ICKDSF :PRODID 5684042J%ICKDSF
VMFREQ2805I Product :PPF 5684042J ICKDSF :PRODID 5684042J%ICKDSF has passed
requisite checking
VMFINT2603I Installing product :PPF 5684042J ICKDSF :PRODID 5684042J%ICKDSF
VMFSET2760I VMFSETUP processing started for 5684042J ICKDSF
VMFUTL2205I Minidisk|Directory Assignments:
String Mode Stat Vdev Label/Directory
VMFUTL2205I LOCALSAM E R/W 2C2 ICK2C2
VMFUTL2205I APPLY F R/W 2A6 ICK2A6
VMFUTL2205I G R/W 2A2 ICK2A2
VMFUTL2205I DELTA H R/W 2D2 ICK2D2
VMFUTL2205I BUILD0 I R/W 29E ICK29E
VMFUTL2205I BUILD2 J R/W 29D ICK29D
VMFUTL2205I BASE1 K R/W 2B2 ICK2B2
VMFUTL2205I ----- A R/W 191 ICK191
VMFUTL2205I ----- B R/O 5E5 MNT5E5
VMFUTL2205I ----- D R/W 51D MNT51D
VMFUTL2205I ----- S R/O 190 MNT190
VMFUTL2205I ----- Y/S R/O 19E MNT19E
VMFSET2760I VMFSETUP processing completed successfully
VMFREC2760I VMFREC processing started
VMFREC1852I Volume 1 of 1 of INS TAPE 0200
VMFREC1851I (1 of 8) VMFRCAXL processing AXLIST
VMFRCX2159I Loading 0 part(s) to DELTA 2D2 (H)
VMFREC1851I (2 of 8) VMFRCPTF processing PARTLST
VMFRCP2159I Loading 0 part(s) to DELTA 2D2 (H)
VMFREC1851I (3 of 8) VMFRCCOM processing DELTA
VMFRCC2159I Loading 0 part(s) to DELTA 2D2 (H)
VMFREC1851I (4 of 8) VMFRCALL processing APPLY
VMFRCA2159I Loading part(s) to APPLY 2A6 (F)
VMFRCA2159I Loaded 1 part(s) to APPLY 2A6 (F)
VMFREC1851I (5 of 8) VMFRCALL processing BASE
VMFRCA2159I Loading part(s) to BASE1 2B2 (K)
VMFRCA2159I Loaded 131 part(s) to BASE1 2B2 (K)
VMFREC1851I (6 of 8) VMFRCALL processing SAMPLE
VMFRCA2159I Loading part(s) to LOCALSAM 2C2 (E)
VMFRCA2159I Loaded 1 part(s) to LOCALSAM 2C2 (E)
VMFREC1851I (7 of 8) VMFRCALL processing BUILD
VMFRCA2159I Loading part(s) to BUILD0 29E (I)
VMFRCA2159I Loaded 6 part(s) to BUILD0 29E (I)
VMFREC1851I (8 of 8) VMFRCALL processing BUILDHLP
VMFRCA2159I Loading part(s) to BUILD2 29D (J)
VMFRCA2159I Loaded 26 part(s) to BUILD2 29D (J)
VMFREC2760I VMFREC processing completed successfully
VMFINT2603I Product installed
VMFINS2760I VMFINS processing completed successfully

```

- 7 Review the install message log (\$VMFINS \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate *VM System Messages and Codes*, or use on-line HELP.

vmfview install

6.4.1 Update Build Status Table for ICKDSF

- 1 Update the VM SYSBLDS software inventory file for ICKDSF.

vmfins build ppf 5684042J {ickdsf | ickdsfsfs} (serviced nolink

Use **ickdsf** for installing on minidisks or **ickdsfsfs** for installing in Shared File System directories.

The SERVICED option will build any parts that were not built on the installation tape (if any) and update the Software Inventory build status table showing that the product 5684042J has been built.

```

VMFINS2767I Reading VMFINS DEFAULTS B for additional options
VMFINS2760I VMFINS processing started
VMFINS2603I Processing product :PPF 5684042J ICKDSF :PRODID 5684042J%ICKDSF
VMFREQ2805I Product :PPF 5684042J ICKDSF :PRODID 5684042J%ICKDSF has passed
requisite checking
VMFINB2603I Building product :PPF 5684042J ICKDSF :PRODID 5684042J%ICKDSF
VMFSET2760I VMFSETUP processing started for 5684042J ICKDSF
VMFUTL2205I Minidisk|Directory Assignments:
String Mode Stat Vdev Label/Directory
VMFUTL2205I LOCALSAM E R/W 2C2 ICK2C2
VMFUTL2205I APPLY F R/W 2A6 ICK2A6
VMFUTL2205I G R/W 2A2 ICK2A2
VMFUTL2205I DELTA H R/W 2D2 ICK2D2
VMFUTL2205I BUILD0 I R/W 29E ICK29E
VMFUTL2205I BUILD2 J R/W 29D ICK29D
VMFUTL2205I BASE1 K R/W 2B2 ICK2B2
VMFUTL2205I ----- A R/W 191 ICK191
VMFUTL2205I ----- B R/O 5E5 MNT5E5
VMFUTL2205I ----- D R/W 51D MNT51D
VMFUTL2205I ----- S R/O 190 MNT190
VMFUTL2205I ----- Y/S R/O 19E MNT19E
VMFSET2760I VMFSETUP processing completed successfully
VMFBLD2760I VMFBLD processing started
VMFBLD1851I Reading build lists
VMFBLD2182I Identifying new build requirements
VMFBLD2182I No new build requirements identified
VMFBLD2179I There are no build requirements matching your request at this time.
No objects will be built
VMFBLD2180I There are 0 build requirements remaining
VMFBLD2760I VMFBLD processing completed successfully
VMFINB2603I Product built
VMFINB2173I Executing verification exec V5684042
ICK030E DEFINE INPUT DEVICE: FN FT FM, "CONSOLE", OR "READER"
CONSOLE
ICK031E DEFINE OUTPUT DEVICE: FN FT FM, "CONSOLE", OR "PRINTER"
ICKDSF 2334 A
ENTER INPUT COMMAND:
ANALYZE UNIT(191) NODRIVE SCAN CYLR(1,2)
ENTER INPUT COMMAND:
END
VMFINS2760I VMFINS processing completed successfully

```

- 2** Review the install message log (\$VMFINS \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate *VM System Messages and Codes*, or use on-line HELP.

vmfview install

6.5 Place ICKDSF Into Production

6.5.1 Copy ICKDSF Files Into Production

- 1 Logon to MAINT if you plan to put ICKDSF general use code on the 'Y' disk (product code or MAINT's 19E disk). Or logon to the owner of the disk that will contain the 'production' level of the ICKDSF code.

a If installing using minidisks, issue the following command:

```
link 5684042J 29e 29e rr
access 29e e
access 19e f
vmfcopy * * e = = f2 (prodid 5684042J%ickdsf olddate replace
```

The VMFCOPY command will update the VMSES PARTCAT file on the MAINT 19E disk.

b If installing using Shared File System, issue the following command:

```
access 5684042J.ickdsf.test e
access 19e f
vmfcopy * * e = = f2 (prodid 5684042J%ickdsf olddate replace
```

The VMFCOPY command will update the VMSES PARTCAT file on the MAINT 19E disk.

- 2 Logon to MAINT if you plan to put ICKDSF help files on the system AMENG Help (MAINT 19D) disk and make them generally available.

a If installing using minidisks, issue the following command:

```
link 5684042J 29d 29d rr
access 29d e
acc 19d f
vmfcopy * * e = = f (prodid 5684042J%ickdsf olddate replace
```

The VMFCOPY command will update the VMSES PARTCAT file on the AMENG Help (MAINT 19D) disk and make them generally available.

b If installing using Shared File System, issue the following command:

```
access 5684042J.ickdsf.buildhlp e
acc 19d f
vmfcopy * * e = = f (prodid 5684042J%ickdsf olddate replace
```

The VMFCOPY command will update the VMSES PARTCAT file on the AMENG Help (MAINT 19D) disk and make them generally available.

- 3 Rebuild the CMS saved system, to return the Y-disk (product code or MAINT's 19E disk) to 'shared' status. See the "Placing (Serviced)

Components into Production" section of the VM/ESA or z/VM *Service Guide* for detailed information about how to save the CMS saved system.

- 4** Rebuild the CMS HELP logical saved segment, to include ICKDSF's help files from the AMENG Help (MAINT's 19D) disk. See the "Placing (Serviced) Components into Production" section of the VM/ESA or z/VM *Service Guide* for detailed information about how these segments should be saved on your system. (Note that you will need to use (**all** instead of (**serviced** on the VMSES/E VMFBLD command when re-building any segments.)

ICKDSF is now installed and built on your system.

7.0 Service Instructions

This section of the Program Directory contains the procedure to install CORrective service to ICKDSF. VMSES/E is used to install service for ICKDSF.

To become more familiar with service using VMSES/E, you should read the introductory chapters in the *VMSES/E Introduction and Reference*. This manual also contains the command syntax for the VMSES/E commands listed in the procedure.

Note: Each step of the servicing instructions must be followed. Do not skip any step unless directed to do so. All instructions showing accessing of disks assume the use of default minidisk addresses. If different minidisk addresses are used, or if using a shared file system, change the instructions appropriately.

7.1 VMSES/E Service Process Overview

The following is a brief description of the main steps in servicing ICKDSF using VMSES/E.

- Setup Environment

Access the software inventory disk. Use VMFSETUP command to establish the correct minidisk access order.

- Merge Service

Use the VMFMRDSK command to clear the alternate apply disk before receiving new service. This allows you to remove the new service if a serious problem is found.

- Receive Service

The VMFREC command receives service from the delivery media and places it on the Delta disk.

- Apply Service

The VMFAPPLY command updates the version vector table (VVT), which identifies the service level of all the serviced parts. In addition, AUX files are generated from the VVT for parts that require them.

- Reapply Local Service (if applicable)

All local service (mods) must be entered into the software inventory to allow VMSES/E to track the changes and build them into the system. Refer to Chapter 7 in the *VM/ESA or z/VM Service Guide* for this procedure.

- Build New Levels

The build task generates the serviced level of an object and places the new object on a test BUILD disk.

- Place the New Service into Production

Once the service is satisfactorily tested it should be put into production by copying the new service to the production disks.

7.2 Servicing ICKDSF

Servicing Stand-Alone Program

For information on servicing the Stand-alone program of ICKDSF, which includes the ICKSADSF COREIMAG file, refer to 8.1.4, "Maintenance of the Stand-Alone Program" on page 33.

7.2.1 Prepare to Receive Service

Electronic Service (envelope file)

If you have received the service electronically or on CD-ROM, follow the appropriate instructions to retrieve and decompact the envelope file to your A-disk. The decompaction is currently done by using the DETERSE MODULE. The file names of the decompacted files will be of the format:

- VLST*num* for the documentation envelope
- VPTF*num* for the service envelope

The file type for both of these files must be SERVLINK. You will need to enter the file name on the VMFREC commands that follow.

The *ppfname* used throughout these servicing instructions is **5684042J**, which assumes you are using the PPF supplied by IBM for ICKDSF. If you have your own PPF override file for ICKDSF, you should use your file's *ppfname* instead of **5684042J**. The *ppfname* you use should be used **throughout** the rest of this procedure, unless otherwise stated differently.

1 Logon to ICKDSF service user ID **5684042J**.

2 If the Software Inventory disk (51D) was accessed R/O (read only) then establish write access to the Software Inventory disk.

Note: If the MAINT 51D minidisk was accessed R/O, you will need to have the user that has it accessed R/W link it R/O. You then can issue the following commands to obtain R/W access to it.

**link MAINT 51d 51d mr
access 51d d**

The 51D minidisk is where the VMSES/E Software Inventory files and other product dependent files reside.

3 Have the ICKDSF CORrective service tape mounted and attached to **5684042J**. (If you have a SERVLINK file make sure that it is available on the A-disk.)

4 Receive the documentation.

a If receiving the service from tape, issue the following command:

vmfrec info

The INFO option loads the documentation (including the product service memo) to the 191 disk and displays a list of products on the tape.

b If receiving the service from an envelope file, issue the following command:

vmfrec info (env vlstnum

The INFO option loads the documentation (including the product service memo) to the 191 disk and displays a list of products on the tape.

5 Check the receive message log (\$VMFREC \$MSGLOG) for warning and error messages.

vmfview receive

Also make note of which products and components have service on the tape. To do this, use the PF5 key to show all status messages which identify the products on the tape.

6 Read the product memo (5684042J MEMO) before going on.

7 Setup the correct product access order.

vmfsetup 5684042J {ickdsf | ickdsfsfs}

Use **ickdsf** for installing on minidisks or **ickdsfsfs** for installing in Shared File System directories.

8 Merge previously applied service to ensure that you have a clean alternate APPLY disk for new service.

vmfmrdsk 5684042J {ickdsf | ickdsfsfs} apply

Use **ickdsf** for installing on minidisks or **ickdsfsfs** for installing in Shared File System directories.

This command clears the alternate APPLY disk.

- 9 Review the merge message log (\$VMFMRD \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate VM *System Messages and Codes*, or use on-line HELP.

vmfview mrd

7.2.2 Receive the Service

Note: If you are installing multiple service tapes, you can receive all of the service for this product before applying and building it.

For **each** service tape or electronic envelope you want to receive, do the following:

- 1 Receive the service.

a If receiving the service from tape, issue the following command:

vmfrec ppf 5684042J {ickdsf | ickdsfsfs}

Use **ickdsf** for installing on minidisks or **ickdsfsfs** for installing in Shared File System directories.

This command receives service from your service tape. All new service is loaded to the DELTA disk.

b If receiving the service from the PTF envelope file, issue the following command:

vmfrec ppf 5684042J {ickdsf | ickdsfsfs} (env vptfnum

Use **ickdsf** for installing on minidisks or **ickdsfsfs** for installing in Shared File System directories.

This command receives service from your service envelope. All new service is loaded to the DELTA disk.

- 2 Review the receive message log (\$VMFREC \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate VM *System Messages and Codes*, or use on-line HELP.

vmfview receive

7.2.3 Apply the Service

- 1 Apply the new service.

vmfapply ppf 5684042J {ickdsf | ickdsfsfs}

Use **ickdsf** for installing on minidisks or **ickdsfsfs** for installing in Shared File System directories.

This command applies the service that you just received. The version vector table (VVT) is updated with all serviced parts and all necessary AUX files are generated on the alternate APPLY disk.

You must review the VMFAPPLY message log if you receive a return code (RC) of a 4, as this may indicate that you have local modifications that need to be reworked.

- 2 Review the apply message log (\$VMFAPP \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate *VM System Messages and Codes*, or use on-line HELP.

vmfview apply

Note

If you get the message VMFAPP2120W then re-apply any local modifications before building the new ICKDSF. Refer to Chapter 7 in the VM/ESA or z/VM *Service Guide*. Follow the steps that are applicable to your local modification.

The following substitutions need to be made:

- **esa** or **zvm** should be **5684042J**
- *compname* should be **ICKDSF** or **ICKDSFSFS** (minidisk or SFS)
- *appid* should be **5684042J**
- *fm-local* should be the fm of 2C2
- *fm-applyalt* should be the fm of 2A6
- **outmode localmod** should be **outmode localsam**

If you have changed any of the installation parameters through a PPF override, you need to substitute your changed values where applicable.

Keep in mind that when you get to the "Return to the Appropriate Section to Build Remaining Objects" or "Rebuild Remaining Objects" step in the VM/ESA or z/VM *Service Guide*, you should return back to this program directory at 7.2.4, "Update the Build Status Table" on page 28.

7.2.4 Update the Build Status Table

- 1 Update the Build Status Table with serviced parts.

vmfbld ppf 5684042J {ickdsf | ickdsfsfs} (status

Use **ickdsf** for installing on minidisks or **ickdsfsfs** for installing in Shared File System directories.

This command updates the Build Status Table.

Note

If the \$PPF files have been serviced you will get the following prompt:

VMFBLD2185R The following source product parameter files have been serviced:

VMFBLD2185R 5684042J \$PPF

VMFBLD2185R When source product parameter files are serviced, all product parameter files built from them must be recompiled using VMFPPF before VMFBLD can be run.

VMFBLD2185R Enter zero (0) to have the serviced source product parameter files built to your A-disk and exit VMFBLD so you can recompile your product parameter files with VMFPPF. Enter one (1) to continue only if you have already recompiled your product parameter files with VMFPPF.

0

Enter a 0 and complete the following steps before you continue.

VMFBLD2188I Building 5684042J \$PPF
on 191 (A) from level \$PFnnnnn

vmfppf 5684042J *

Note: If you've created your own PPF override then use your PPF name instead of 5684042J.

**copyfile 5684042J \$PPF a = = d (olddate replace
erase 5684042J \$PPF a**

Note: **Do not** use your own PPF name in place of 5684042J for the COPYFILE and ERASE commands.

vmfbl d ppf 5684042J {ickdsf | ickdsfsfs} (status

1

Re-issue VMFBLD to complete updating the build status table.

Use **ickdsf** for installing on minidisks or **ickdsfsfs** for installing in Shared File System directories. When you receive the prompt that was previously displayed, enter a 1 to continue.

- 2 Use VMFVIEW to review the build status messages, and see what objects need to be built.

vmfview build

7.2.5 Build Serviced Objects

- 1 Rebuild ICKDSF serviced parts.

vmfbld ppf 5684042J {ickdsf | ickdsfsfs} (serviced

Use **ickdsf** for installing on minidisks or **ickdsfsfs** for installing in Shared File System directories.

Note: If your software inventory disk (51D) is not owned by the MAINT user ID then make sure the VMSESE PROFILE reflects the correct owning user ID.

- 2 Review the build message log (\$VMFBLD \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate *VM System Messages and Codes*, or use on-line HELP.

vmfview build

7.3 Place the New ICKDSF Service Into Production

7.3.1 Copy the New ICKDSF Serviced Files Into Production

- 1 Logon to MAINT if you plan to put ICKDSF general use code on the 'Y' disk (product code or MAINT's 19E disk). Or logon to the owner of the disk that will contain the 'production' level of the ICKDSF code.

a If installing using minidisks, issue the following command:

```
link 5684042J 29e 29e rr
access 29e e
access 19e f
vmfcopy * * e = = f2 (prodid 5684042J%ickdsf olddate replace
```

The VMFCOPY command will update the VMSES PARTCAT file on the MAINT 19E disk.

b If installing using Shared File System, issue the following command:

access 5684042J.ICKDSF.test e
access 19e f
vmfcopy * * e = = f2 (prodid 5684042J%ickdsf olddate replace

The VMFCOPY command will update the VMSES PARTCAT file on the MAINT 19E disk.

2 Logon to MAINT if you plan to put ICKDSF help files on the system AMENG Help (MAINT 19D) disk and make them generally available.

a If installing using minidisks, issue the following command:

link 5684042J 29d 29d rr
access 29d e
acc 19d f

The VMFCOPY command will update the VMSES PARTCAT file on the AMENG Help (MAINT 19D) disk.

vmfcopy * * e = = f (prodid 5684042J%ickdsf olddate replace

b If installing using Shared File System, issue the following command:

access 5684042J.ickdsf.buildhlp e
acc 19d f

The VMFCOPY command will update the VMSES PARTCAT file on the AMENG Help (MAINT 19D) disk.

vmfcopy * * e = = f (prodid 5684042J%ickdsf olddate replace

3 Rebuild the CMS saved system, to return the Y-disk (product code or MAINT's 19E disk) to 'shared' status. See the "Placing (Serviced) Components into Production" section of the VM/ESA or z/VM *Service Guide* for detailed information about how to save the CMS saved system.

4 Re-build the CMS HELP logical saved segment, to include ICKDSF's help files from the AMENG Help (MAINT's 19D)disk. See the "Placing (Serviced) Components into Production" section of the *Service Guide* for detailed information about how these segments should be saved on your system. (Note that you will need to use (**all** instead of (**serviced** on the VMSES/E VMFBLD command when re-building any segments.)

You have finished servicing ICKDSF.

8.0 The Stand-Alone Program

After this program has been applied to your system, the CMS file ICKSADSF COREIMAG on your product disk is the Stand-Alone version of ICKDSF.

The Stand-Alone ICKDSF can be executed by punching the ICKSADSF COREIMAG to a virtual card reader and IPLing the file from the virtual reader. The Stand-Alone ICKDSF can also be copied to a tape with which you may also IPL.

8.1.1 Creating the Stand-Alone Tape

The following is a sample EXEC with which you can copy the Stand-Alone program code to an unlabeled tape.

```
/* THIS EXEC COPIES THE STAND-ALONE DEVICE SUPPORT FACILITIES */
/* FROM CMS FILE 'ICKSADSF COREIMAG' TO AN IPLABLE TAPE.      */
/* THE TAPE MUST BE ATTACHED AS VIRTUAL ADDRESS '181'.        */
/* THE PRODUCT DISK CONTAINING FILE 'ICKSADSF COREIMAG'       */
/* SHOULD BE ACCESSED AS 'I', OR CHANGE THE FILEMODE IN THE  */
/* FILEDEF STATEMENT ACCORDINGLY.                             */
Address 'COMMAND'
'CP REWIND 181'
If rc = 0 then
  Do
    'FILEDEF INMOVE DISK ICKSADSF COREIMAG I (LRECL 80 RECFM F'
    'FILEDEF OUTMOVE TAP1 (LRECL 80 RECFM F BLOCK 80'
    'MOVEFILE'
  If rc = 0 then
    Do
      Say '*** STAND-ALONE ICKDSF SUCCESSFULLY GENERATED ***'
      Exit 0
    End
  Else
    Do
      Say 'ERROR LOADING CMS FILE TO TAPE'
      Exit 10
    End
  End
End
Else
  Do
    Say 'TAPE 181 NOT ATTACHED OR NOT READY'
    Exit 20
  End
End
```

8.1.2 Loading the Stand-Alone Tape

Refer to Chapter 7. in the *Device Support Facilities User's Guide and Reference* for additional information.

8.1.3 Verifying the Stand-Alone Tape

Enter the following command after the tape has been IPL'd:

```
ANALYZE unit(ccuu) NODRIVE SCAN CYLR(1,2)
```

8.1.4 Maintenance of the Stand-Alone Program

Periodically, a PTF that contains the latest Stand-Alone ICKDSF will be issued. Maintenance for Stand-Alone ICKDSF is cumulative and will always involve complete replacement of the program. Corrective maintenance will consist of a tape with the Stand-Alone ICKDSF product in IPL-able form.

Contact the IBM Support Center to order the latest Stand-Alone ICKDSF PTF.

This PTF is not installable with VMSES/E. Although it is an IPL-able tape, you can use it to replace the CMS file, ICKSADSF COREIMAG, on the test and production disks for ICKDSF. You can use the following CMS commands to take the file from the tape and put it on the disk:

- FILEDEF INMOVE
- FILEDEF OUTMOVE
- MOVEFILE

The following is an example of the CMS commands:

```
FILEDEF INMOVE TAP1 (LRECL 80 RECFM F BLOCK 80  
FILEDEF OUTMOVE DISK ICKSADSF COREIMAG I (LRECL 80 RECFM F  
MOVEFILE
```

The above example assumes that a VMFSETUP has been done and that the test build disk is accessed as 'I'. Once the MOVEFILE command has completed, you need to use the VMFCOPY or COPYFILE command to copy the ICKSADSF COREIMAG file from the test build disk to the production build disk.

Appendix A. Create Product Parameter File (PPF) Override

This section provides information to help you create a product parameter file (PPF) override. The example used in this section shows how to change the shared file system (SFS) file pool where ICKDSF files reside.

Note: Do **not** modify the product supplied 5684042J \$PPF or 5684042J PPF files to change the file pool name or any other installation parameters. If the 5684042J \$PPF file is serviced, the existing \$PPF file will be replaced, and any changes to that file will be lost. By creating your own \$PPF override, your updates will be preserved.

The following process describes changing the default file pool name, VMSYS, to MYPOOL1:

- 1 Create a new \$PPF override file, or edit the override file created via the 'Make Override Panel' function.

xedit *overname* \$PPF *fm*2

overname is the PPF override file name (such as 'myickdsf') that you want to use.

fm is an appropriate file mode. If you create this file yourself, specify a file mode of A.

If you modify an existing override file, specify a file mode of A or D, based on where the file currently resides (A being the file mode of a R/W 191 minidisk, or equivalent; D, that of the MAINT 51D minidisk).

- 2** Create (or modify as required) the Variable Declarations (:DCL.) section for the **ickdsfsfs** override area, so that it resembles the :DCL. section shown below. This override will be used for the installation of ICKDSF. Modifications needed are denoted in **bold** print.

```

:OVERLST. ICKDSFSFS
*
* ===== *
* Override Section for Initial Installation (Using SFS Directories) *
* ===== *
:ICKDSFSFS. ICKDSFSFS 5684042J
:DCL. REPLACE
&191 DIR MYPPOOL1:5684042J.
&BAS1Z DIR MYPPOOL1:5684042J.ICKDSF.OBJECT
&SAMPZ DIR MYPPOOL1:5684042J.ICKDSF.LOCAL
&DELTZ DIR MYPPOOL1:5684042J.ICKDSF.DELTA
&APPLX DIR MYPPOOL1:5684042J.ICKDSF.ALTAPPLY
&APPLZ DIR MYPPOOL1:5684042J.ICKDSF.PRDAPPLY
&BLD0Z DIR MYPPOOL1:5684042J.ICKDSF.TEST
&DISK9 DIR MYPPOOL1:5684042J.ICKDSF.BUILDHLP
&ICKID1 USER 5684042J
:EDCL.
:END.
*

```

(This override will replace the :DCL. section of the **ickdsfsfs** override area of the 5684042J \$PPF file.)

- 3** If your \$PPF override file was created at file mode A, copy it to file mode D—the Software Inventory minidisk (MAINT 51D). Then erase it from file mode A.

file

copyfile *overname* \$PPF *fm* = = d (olddate)

erase *overname* \$PPF *fm*

- 4** Compile your changes to create the usable *overname* PPF file.

vmfppf *overname* **ickdsfsfs**

where *overname* is the file name of your \$PPF override file.

Now that the *overname* PPF file has been created, you should specify *overname* instead of 5684042J as the PPF name to be used for those VMSES/E commands that require a PPF name.

Notices

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

IBM World Trade Asia Corporation
Licensing
2-31 Roppongi 3-chome, Minato-ku
Tokyo 106, Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes to the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation
Information Enabling Requests
Dept. DZWA
5600 Cottle Road
San Jose, CA 95193 U.S.A.

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same

on generally available systems. Furthermore, some measurement may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities on non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrates programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the IBM programming interfaces. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs.

Trademarks and Service Marks

The following terms are trademarks of the International Business Machines Corporation (IBM) in the United States, or other countries, or both:

IBM®
IBMLink
VM/ESA®
z/VM

Other company, product, and service names may be trademarks or service marks of others.

Reader's Comments

Device Support Facilities Release 17

You may use this form to comment about this document, its organization, or subject matter. Please understand that your feedback is of importance to IBM, but IBM makes no promises to always provide a response to your feedback.

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.

RATING SCALE						
very satisfied	←-----→				very dissatisfied	not applicable
1	2	3	4	5	N	

	Satisfaction						
Ease of product installation	1	2	3	4	5	N	
Time required to install the product	1	2	3	4	5	N	
Contents of program directory	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	
Installation verification procedure	1	2	3	4	5	N	
Ease of customizing the product	1	2	3	4	5	N	
Ease of migrating the product from a previous release	1	2	3	4	5	N	
Ease of putting the system into production after installation	1	2	3	4	5	N	
Ease of installing service	1	2	3	4	5	N	

- Did you order this product as an independent product or as part of a package?

- Independent
- Package

What type of package was ordered?

- System Delivery Offering (SDO)
- Other - Please specify type: _____

- 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 VM products using VMSES/E?
 - Yes
 - How many years of experience do they have? _____
 - No
- How long did it take to install this product? _____
- 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:

Name and Job Title

Organization

Address

Telephone

Thank you for your participation.

Please send the completed form to the following address, or give to your IBM representative who will forward it to the Device Support Facilities Development group:

International Business Machines Corporation
RCF Processing, Department M86/50
5600 Cottle Road
San Jose, CA 95193-0001
United States of America

FAX Number

United States 1-800-426-6209

Other countries: (+ 1) + 408 + 256-7896

E-Mail:

IBMLink from United States: starpubs@us.ibm.com

IBMLink from Canada: STARPUBS at TORIBM

IBM Mail Exchange: USIB3VVD at IBMMAIL



Program Number: 5684-042

Printed in U.S.A.

GI10-4514-01

