

# Program Directory for Device Support Facilities (ICKDSF)

Release 17

Program Number 5684-042

for Use with z/VM version 6 release 2 or higher

Document Date: September 2020

GI13-4366-01

Note —
Before using this information and the product it supports, be sure to read the general information under "Notices" on page 28.

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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 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 8 identifies the resources and considerations for installing and using ICKDSF.
- 6.0, "Installation Instructions" on page 11 provides detailed installation instructions for ICKDSF.
- 7.0, "Service Instructions" on page 18 provides detailed servicing instructions for ICKDSF.
- 8.0, "The Stand-Alone Program" on page 19 provides detailed Stand-alone instructions for ICKDSF.
- Appendix A, "Moving ICKDSF to SFS Directories and Creating a PPF Override" on page 21 provides detailed information on moving ICKDSF into the shared file system (SFS) and overriding the default 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 z/VM® environment.

## 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

ICKDSF is distributed pre-installed as a prerequisite no-charge product on the z/VM base system deliverable. When ordering z/VM, you must already be licensed for ICKDSF or a separate order must be placed for it. Refer to the z/VM Software announcement for information on ordering z/VM and licensing ICKDSF.

## 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

The following publication is part of your order for ICKDSF but it is only available as softcopy.

Figure 1. Basic Material: Unlicensed Publications

 Publication Title
 Form Number

 Program Directory for Device Support Facilities (ICKDSF)
 GI13-4366-01

The ICKDSF program directory is available in Adobe Portable Document Format from the z/VM Library pages on the World Wide Web; the URL for this home page is:

www.vm.ibm.com/library

## 2.3.2 Base Program Publications

IBM no longer ships hardcopy publications for ICKDSF. You can download the ICKDSF publications at http://www.ibm.com/support/knowledgecenter/SSB27U

Figure 2. Basic Material: Unlicensed Publications

Publication Title	Form Number		
Device Support Facilities User's Guide and Reference Release 17	GC35-0033-42		
Device Support Facilities Release 17 System Control Programming Specifications	GC26-3946-21		

## 2.3.3 Softcopy Publications

ICKDSF publications, except the Program Directory, are available in the z/VM library in the IBM Knowledge Center web site:

http://www.ibm.com/support/knowledgecenter/SSB27U

In addition, the ICKDSF softcopy publications, including this Program Directory, are available in Adobe Portable Document Format from the z/VM internet library home page on the World Wide Web; the URL for this home page is:

www.vm.ibm.com/library/

## 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 3 may be useful during the installation of ICKDSF.

Figure 3 (Page 1 of 2). Publications Useful During Installation / Service on z/VM version 6

Publication Title	Form Number
z/VM: Service Guide	GC24-6325
z/VM: VMSES/E Introduction and Reference	GC24-6336
z/VM: CP Planning and Administration	SC24-6271
z/VM: CP Commands and Utilities Reference	SC24-6268
z/VM: CMS Commands and Utilities Reference	SC24-6260
z/VM: I/O Configuration	SC24-6291
z/VM: CMS File Pool Planning. Administration, and Operation	SC24-6261

Figure 3 (Page 2 of 2). Publications Useful During Installation / Service on z/VM version 6

Publication Title	Form Number
z/VM: Installation Guide	GC24-6292
z/VM: CP Messages and Codes	GC24-6270
z/VM: CMS and REXX/VM Messages and Codes	GC24-6255
z/VM: Other Components Messages and Codes	GC24-6300

## 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 4. PSP Upgrade and Subset ID

RETAIN	$\mathbb{R}$		
COMPID	Release	Upgrade	Subset
565899201	H14	ICKDSF017	CMS0H14

Visit http://www.ibmlink.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 5 identifies the component ID (COMPID), Retain Release, and Field Engineering Service Number (FESN) for ICKDSF.

Figure 5. Component IDs

Ret	tain		
COMPID Release		Component Name	FESN
565899201	H14	ICKDSF R17	5499201

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## 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 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

ICKDSF is shipped at a particular ESO service level on the z/VM system deliverable.

To find out the ESO level of ICKDSF you can enter the command:

SERVICE ICKDSF STATUS

To find out the PTFs associated with the shipped level check with the IBM Support Center or using IBMLink (ServiceLink).

Before you use ICKDSF you should review the ICKDSF017 PSP (Preventive Service Planning) bucket for updated installation information that you should be aware of, or for information about PTFs that should be installed.

## 4.3 Cumulative Service

Cumulative service for ICKDSF Release 17 is available through a periodic Recommended Service Upgrade (RSU). See upgrade bucket ICKDSF017 subset yynnRSU (where yynn is the RSU service level) for the latest RSU available. For the list of PTF's included on the RSU, see the service memo from or the PSP subsets sorted by PTF, APAR or RSU level (LVL).

## 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.

## 5.2.1 Operating System Requirements

ICKDSF supports the following VM operating systems:

z/VM version 7 release 2

## 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.

- ICKDSF is pre-installed on the z/VM system deliverable.
- With the packaging changes introduced with z/VM version 6 release 2 to provide support for a z/VM single system image (SSI), note that all ICKDSF service activity now must be performed using user ID MAINTvrm (e.g. MAINT710).
- VMSES/E is required to install and service this product.
- If you modify or eliminate any of the IBM-supplied user IDs, minidisk addresses or SFS directory
  names that are associated with ICKDSF, you must create an appropriate PPF override for the
  SERVP2P \$PPF file.

**Note:** The ICKDSF Product Parameter File, 5684042J \$PPF, has not been updated to use the new VMSES/E SSI function but the ICKDSF component in the SERVP2P \$PPF has been updated.

You also must use the **VMFUPDAT SYSSUF** command to update the VM SYSSUF Software Inventory file, so that your PPF override for SERVP2P PPF is used for automated service processing. For more information about PPF overrides, see the *VMSES/E Introduction and Reference*.

• If you choose to move ICKDSF from minidisk to SFS after initial z/VM installation, or if you want to change from the default SFS file pool or directories, then you will need to follow the steps in Appendix A, "Moving ICKDSF to SFS Directories and Creating a PPF Override" on page 21. These steps help you create the SFS directories, move the files to the SFS directories and create a PPF override file.

## 5.3 DASD Storage and User ID Requirements

Figure 6 lists the user IDs, minidisks and default SFS directory names that are used to install and service ICKDSF.

#### **Important Installation Notes:**

- All user IDs and minidisks are listed here so that you can get an idea of the resources required by ICKDSF. They are already defined and allocated on the z/VM System deliverable, as ICKDSF is pre-installed.
- The 5684042J user ID is defined using a single-configuration virtual machine definition. See z/VM: CP Planning and Administration for information on single-configuration and multiconfiguration virtual machine definitions.

Figure 6 (F	Figure 6 (Page 1 of 2). DASD Storage Requirements for Target Minidisks							
Minidisk owner	Default	Storage in Cylinders		FB-512	SFS 4K	Usage		
(user ID)	Address	DASD	CYLS	Blocks	Blocks	Default SFS Directory Name		
5684042J	2B2	3390	8	10800	1350	Contains all the base code shipped with ICKDSF: VMPSFS:5684042J.ICKDSF.OBJECT		
5684042J	2C2	3390	2	2400	300	Contains customization files. This disk may also be used for local modifications: VMPSFS:5684042J.ICKDSF.LOCAL		
5684042J	2D2	3390	20	28800	3600	Contains serviced files: VMPSFS:5684042J.ICKDSF.DELTA		
5684042J	2A6	3390	2	2400	300	Contains AUX files and software inventory tables that represent the test service level of ICKDSF: VMPSFS:5684042J.ICKDSF.ALTAPPLY		
5684042J	2A2	3390	2	2400	300	Contains AUX files and software inventory tables that represent the service level of ICKDSF that is currently in production: VMPSFS:5684042J.ICKDSF.PRDAPPLY		

**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 6 (Page 2 of 2). DASD Storage Requirements for Target Minidisks								
Minidisk owner	Default	Storage in Cylinders		FB-512	SFS 4K	Usage		
(user ID)	Address	DASD	CYLS	Blocks	Blocks	Default SFS Directory Name		
5684042J	29E	29E 3390	390 15 2	21600	21600 2700	Test build disk. This code is copied to the MAINT 19E production disk.		
						Note: In an SSI environment the MAINT 19E minidisks on each member have the ICKDSF production code.  VMPSFS:5684042J.ICKDSF.TEST		
5684042J	191	3390	9 2	2400	300	5684042J user ID's HELP minidisk: VMPSFS: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

ICKDSF is pre-installed on the z/VM System deliverable.

#### Did you do an upgrade installation?

If you used the upgrade installation procedure documented in the *z/VM: Installation Guide* to upgrade a *z/VM* version 6 release 4 system with ICKDSF, no further enablement or customization is necessary. You installation of ICKDSF is complete. Proceed to Section 7.

#### Where to next? -

If you are performing an initial z/VM system installation ICKDSF does not require any additional installation steps in order for you to use it so there is nothing more you need to do.

If you received a Service Delivery Option (SDO) Licensed Product Service Refresh install media for ICKDSF then you need to follow the instructions in section 6.1, "ICKDSF SDO Service Refresh Installation Instructions."

#### 6.1 ICKDSF SDO Service Refresh Installation Instructions

This section describes the installation methods and the step-by-step procedures to install and activate ICKDSF if you have an SDO Service Refresh install media for 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.

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.

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#### 6.1.1 VMSES/E Installation Process Overview

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

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).

If running in an SSI cluster the place into production steps must be repeated on each member.

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

#### 6.1.2 Install ICKDSF

The ppfname used throughout these installation instructions is SERVP2P. If you have your own PPF override file to SERVP2P, you should use your file's ppfname instead of SERVP2P throughout the rest of this procedure.

- 1 Logon to MAINT710
- **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 MAINT710 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 MAINT710 51d 51d mr access 51d d

- **3** Have the ICKDSF installation tape mounted and attached to MAINT710 at virtual address 181. The VMFINS EXEC requires the tape drive to be at virtual address 181.
  - OR -

If you have a product envelope SERVLINK file make sure it is available on the A-disk or any work disk that is accessed as file mode C, such as MAINT710's 500 disk.

4 Install ICKDSF.

## **a** If installing from tape

#### vmfins install ppf servp2p {ickdsf | ickdsfsfs} (nomemo link

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

The LINK option indicates that you want VMFINS to link to the appropriate minidisks so they can be accessed.

## **b** If installing from a product **envelope** file

#### vmfins install ppf servp2p {ickdsf | ickdsfsfs} (nomemo link env envfilename

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

envfilename is the file name of the product envelope file. The file type must be SERVLINK.

The LINK option indicates that you want VMFINS to link to the appropriate minidisks so they can be accessed.

```
VMFINS2767I Reading VMFINS DEFAULTS B for additional options
VMFINS2760I VMFINS processing started
VMFINS2601R Do you want to create an override for :PPF SERVP2P ICKDSF :
               5684042J%ICKDSF?
               Enter 0 (No), 1 (Yes) or 2 (Exit)
VMFINS2603I Processing product :PPF SERVP2P ICKDSF :PRODID 5684042J%ICK
VMFREQ2805I Product :PPF SERVP2P ICKDSF :PRODID 5684042J%ICKDSF has pas
               requisite checking
VMFINT2603I Installing product :PPF SERVP2P ICKDSF :PRODID 5684042J%ICK
VMFSET2760I VMFSETUP processing started for SERVP2P ICKDSF VMFSET2204I Linking 5684042J 2C2 as 2C2 with link mode MR
VMFSET2204I Linking 5684042J 2D2 as 2D2 with link mode MR
VMFSET2204I Linking 5684042J 2A6 as 2A6 with link mode MR
VMFSET2204I Linking 5684042J 2A2 as 2A2 with link mode MR
VMFSET2204I Linking 5684042J 29E as 29E with link mode MR
VMFSET2204I Linking 5684042J 2B2 as 2B2 with link mode MR
VMFSET2204I Linking 5684042J 29D as 29D with link mode MR
VMFUTL2205I Minidisk Directory Assignments:
String
VMFUTL2205I LOCALSAM
                                                 Label/Directory
                          Mode Stat Vdev
                                          2C2
                           Ε
                                    R/W
                                                 ICK2C2
VMFUTL2205I APPLY
                                    R/W
                                          2A6
                                                 ICK2A6
VMFUTL2205I
                                          2A2
                                    R/W
                                                  ICK2A2
VMFUTL2205I DELTA
                           Н
                                    R/W
                                          2D2
                                                  ICK2D2
VMFUTL22051 BUILDO
                                    R/W
                                          29F
                                                 TCK29F
                           T
VMFUTL2205I BUILD2
                           J
                                    R/W
                                          29D
                                                 ICK29D
VMFUTL2205I BASE1
                                    R/W
                                          2B2
                                                  ICK2B2
VMFUTL2205I ----- A
                                    R/W
                                          191
                                                 ICK191
VMFUTL2205I ----- B
                                    R/0
                                          5E5
                                                 MNT5E5
VMFUTL2205I ----- D
                                    R/W
                                          51D
                                                 MNT51D
VMFUTL2205I ----- S
VMFUTL2205I ----- Y/S
                                    R/0
                                          190
                                                 MNT190
                                    R/0
                                          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 n part(s) to DELTA 2D2 (H) VMFREC1851I (2 of 8) VMFRCPTF processing PARTLST
VMFRCP2159I Loading n part(s) to DELTA 2D2 (H) VMFREC1851I (3 of 8) VMFRCCOM processing DELTA
VMFRCC2159I Loading n part(s) to DELTA 2D2 (H) VMFREC1851I (4 of 8) VMFRCALL processing APPLY
VMFRCA2159I Loading part(s) to APPLY 2A6 (F)
VMFRCA2159I Loaded nn part(s) to APPLY 2A6 (F) VMFREC1851I (5 of 8) VMFRCALL processing BASE
VMFRCA2159I Loading part(s) to BASE1 2B2 (K)
VMFRCA2159I Loaded nn part(s) to BASE1 2B2 (K)
VMFREC1851I (6 of 8) VMFRCALL processing SAMPLE
VMFRCA2159I Loading part(s) to LOCALSAM 2C2 (E) VMFRCA2159I Loaded n part(s) to LOCALSAM 2C2 (E) VMFREC1851I (7 of 8) VMFRCALL processing BUILD
VMFRCA2159I Loading part(s) to BUILD0 29E (I)
VMFRCA2159I Loaded n part(s) to BUILD0 29E (I)
VMFRCA2159I Loaded n part(s) to BUILD0 29E (I)
VMFRCALD processing BUILDHLP
VMFRCA2159I Loading part(s) to BUILD2 29D (J)
VMFRCA2159I Loaded nn part(s) to BUILD2 29D (J)
VMFREC2760I VMFREC processing completed successfully
VMFINT2603I Product installed
VMFINS2760I VMFINS processing completed successfully
```

**5** 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

#### 6.1.3 Place ICKDSF Into Production

- NOTE!

If running in an SSI cluster you need to repeat the following steps on each member.

#### 6.1.3.1 Copy ICKDSF Files Into Production

1 Logon to MAINT710 to place ICKDSF general use code on the 'Y' disk (product code or MAINT's 19E disk).

**a** If installing using minidisks, issue the following command:

link 5684042J 29e 29e rr link MAINT 19e 19e mr access 29e e access 19e f

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

vmfcopy \* \* e = = f2 (prodid 5684042J%ickdsf olddate replace

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

access 5684042J.ickdsf.test e link MAINT 19e 19e mr access 19e f

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

vmfcopy \* \* e = = f2 (prodid 5684042J%ickdsf olddate replace

**2** Logon to MAINT710 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 link MAINT 19d 19d mr access 29d e acc 19d f

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

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

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

access 5684042J.ickdsf.buildhlp e link MAINT 19d 19d mr acc 19d f

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

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

**3** Rebuild the CMS saved system, to return the Y-disk (MAINT's 19E disk) to 'shared' status.

#### put2prod savecms

4 Rebuild the CMS HELP logical saved segment, to include ICKDSF's help files from the AMENG Help (MAINT's 19D) disk (Optional). The AMENG HELP segment was removed from the default system with z/VM V6 R3. If you have not re-installed the segment, skip this step.

#### put2prod segments helpseg

ICKDSF is now reinstalled and built on your system.

## 7.0 Service Instructions

Note - z/VM Automated Service Procedure -

The z/VM automated service procedure (use of the **SERVICE** and **PUT2PROD** commands) is *required* for applying service to ICKDSF.

## 7.1 Servicing ICKDSF

Use the service procedure documented in the z/VM: Service Guide to receive, apply, build and place ICKDSF into production.

## 8.0 The Stand-Alone Program

After ICKDSF has been installed on your system, the ICKSADSF COREIMAG CMS file 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 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
       Say '*** STAND-ALONE ICKDSF SUCCESSFULLY GENERATED ***'
     End
   Else
       Say 'ERROR LOADING CMS FILE TO TAPE'
       Exit 10
     End
 End
Flse
  Do
    Say 'TAPE 181 NOT ATTACHED OR NOT READY'
    Exit 20
  End
```

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## 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.

Note: The Stand-Alone ICKDSF is also available on DVD. The DVD can be loaded by processors that have the 'Load From Removable Media or Server' task. See the ICKDSF INFOAPAR II14711 for more information.

## 8.1.3 Verifying the Stand-Alone Version

Enter the following command after the Stand-Alone version 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 DVD with the Stand-Alone ICKDSF product in IPL-able form.

Note: Starting with APAR PI85112 the ICKSADSF COREIMAG file is now installable with VMSES/E.

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

## Appendix A. Moving ICKDSF to SFS Directories and Creating a PPF Override

By default, Device Support Facilities is installed to minidisks as part of the z/VM System deliverable unless you choose to install ICKDSF to SFS during the initial z/VM installation. If you did not install ICKDSF into SFS directories and want to move it now, you can. Refer to Figure 6 on page 9 to see which minidisks can reside in SFS. You can use either the default file pool, VMPSFS, or a file pool of your choosing. If you are running in an SSI cluster then this new file pool needs to be accessible to all members. This can be accomplished by specifying the SSI startup parameter in the file pool server DMSPARMS file.

A summary of the steps that are needed to place ICKDSF into SFS are:

- · Allocate space in the user-defined or default file pool
- Provide the user IDs 5684042J and MAINT710 with access to the file pool
- · Create the necessary ICKDSF subdirectories
- Copy files from the minidisks to the new SFS subdirectories
- Create a PPF override, if not using the default file pool or subdirectory names.

#### Where to next -

You need to do one of the following:

- If you want to place ICKDSF into SFS directories using the defaults defined in the 5684042J
  PPF file and you are running in a non-SSI or a single member SSI environment, you can use the
  MOVE2SFS command, as documented in the z/VM: CP Commands and Utilities Reference
  manual.
- If you want to place ICKDSF into your **own user-defined file pool or SFS directories** or want to use the default SFS directories and you are running in a multiple member SSI environment, continue with the instructions in A.1, "Setup SFS File Pool and Directories" on page 22.
- If you **only need to create a PPF override**, continue with the instructions in A.3, "Create Product Parameter File (PPF) Override" on page 24.

If you were pointed to this appendix from another section and you have completed the steps required (whether provided in this appendix or in the *z/VM: CP Commands and Utilities Reference*) you should now return to your original section to continue.

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## A.1 Setup SFS File Pool and Directories

#### Notes:

- 1. The steps that follow help you determine the ICKDSF file pool space requirements, file pool enrollment, and SFS directory definitions. If not all of these steps are required - for example, if you are changing only SFS directory or subdirectory names - adapt these instructions as needed for your environment.
- 2. The steps that follow assume that a user-defined SFS file pool name is being used. If you will be using the VM default file pool name, VMPSFS, substitute it in any place you see the text 'user-defined file pool' or variable userfilepool.
- 3. For more information about planning for, generating and managing a file pool and server, see z/VM: CMS File Pool Planning, Administration and Operation.
  - 1 Determine the number of 4k blocks that are required for the SFS directories, for each user ID, 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 each directory are summarized in Figure 6 on page 9.
    - This information will be used when the 5684042J user ID is enrolled in the user-defined file pool.
  - **2** Enroll user 5684042J in the user-defined file pool using the ENROLL USER command:

ENROLL USER 5684042J userfilepool: (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 the user-defined file pool.

- **3** Make the system maintenance user ID, MAINT710, a file pool administrator for the user-defined file pool so that it can update files on the ICKDSF service directories by adding the MAINT710 user ID to the ADMIN startup parameter in the user-defined file pool DMSPARMS file.
- **4** Determine if there are enough blocks available in the file pool to install ICKDSF. This information can be obtained from the QUERY FILEPOOL STORGRP command. The output from this command is a list of storage groups and the number of 4K blocks free. If the number of blocks free is smaller than the total 4K blocks needed (refer to Figure 6 on page 9 to obtain total blocks needed) to install ICKDSF you need to add space to the

file pool. See z/VM: CMS File Pool Planning, Administration, and Operation manual for information on adding space to a file pool.

5 Create the necessary subdirectories using the CREATE DIRECTORY command.

Note: All of the ICKDSF subdirectories are shown in the create directory commands. If you are not planning to create all of them, then just enter the commands for the ones you are planning to create.

A complete list of default ICKDSF SFS directories is provided in Figure 6 on page 9.

If you have changed any of the default SFS directory names then use your new name in place of the old name in the create directory command.

#### set filepool userfilepool:

create directory userfilepool:5684042J.ickdsf create directory userfilepool:5684042J.ickdsf.object create directory userfilepool:5684042J.ickdsf.local create directory userfilepool:5684042J.ickdsf.delta create directory userfilepool:5684042J.ickdsf.altapply create directory userfilepool:5684042J.ickdsf.prdapply create directory userfilepool:5684042J.ickdsf.test create directory userfilepool:5684042J.ickdsf.buildhlp

> If necessary, see the z/VM: CMS Commands and Utilities Reference: manual for more information about the CREATE DIRECTORY command.

**6** If you intend to use an SFS directory as the work space for the 5684042J user ID, update the IPL control statement in the 5684042J CP user directory entry to look like:

IPL CMS PARM FILEPOOL userfilepool

This will cause CMS to automatically access 5684042J's top directory as file mode A. Refer to the z/VM:CP Planning and Administration for information on updating the CP user directory.

## A.2 Copy Minidisk (or SFS) Files to SFS Directories

1 Copy the files from the ICKDSF minidisks (or from the VMPSFS file pool if ICKDSF is already installed there) to your new user-defined SFS file pool and directories using the VMFCOPY command.

Note: Repeat the ACCESS and VMFCOPY commands, that follow, for each disk or SFS directory you need to copy. Refer to Figure 6 on page 9 for the default minidisk and SFS directory names for ICKDSF.

access vdev e access dirid f vmfcopy \* \* e = = f (prodid 5684042J%ICKDSF olddate

- vdev is the minidisk you are copying files from. If you are copying from SFS then substitute the default SFS directory name in place of vdev.
- dirid is the name of the (target) SFS directory that you are copying files to.
- 5684042J%ICKDSF is the PRODID defined within the 5684042J PPF file for the minidisk and SFS ICKDSF components.

The VMFCOPY command will update the VMSES PARTCAT file on the target directory.

## A.3 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 \$PPF or PPF or the SERVP2P \$PPF or SERVP2P PPF files to change the file pool name or any other installation parameters. If the product \$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, VMPSFS, to MYPOOL1:

Create a new \$PPF override file, or edit an existing override file, for the SERVP2P \$PPF file.

#### xedit overname \$PPF fm2

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 MAINT710 51D minidisk).

**2** Create (or modify as required) the Variable Declarations (:DCL.) section for the ickdsfsfs and ickdsfsfsp2p override areas, so that it resembles the :DCL, section shown below. This override will be used for the installation of ICKDSF.

Note: The PPF file used by the SERVICE, PUT2PROD and LOCALMOD commands is SERVP2P PPF therefore this example shows an override to the SERVP2P \$PPF file. Modifications needed are denoted in **bold** print.

```
:OVERLST. ICKDSFSFS ICKDSFSFSP2P
* Override Section for Initial Installation (Using SFS Directories)
* ------ *
:ICKDSFSFS. ICKDSFSFS SERVP2P
:DCL. REPLACE
&191
        DIR MYP00L1:5684042J.
&BAS1Z
        DIR MYPOOL1:5684042J.ICKDSF.OBJECT
&SAMPZ
        DIR MYPOOL1:5684042J.ICKDSF.LOCAL
&DELTZ
        DIR MYPOOL1:5684042J.ICKDSF.DELTA
&APPLX
        DIR MYPOOL1:5684042J.ICKDSF.ALTAPPLY
&APPLZ
        DIR MYPOOL1:5684042J.ICKDSF.PRDAPPLY
        DIR MYPOOL1:5684042J.ICKDSF.TEST
&BLD0Z
        DIR MYPOOL1:5684042J.ICKDSF.BUILDHLP
&DISK9
&ICKID1 USER 5684042J
:EDCL.
:END.
:ICKDSFSFSP2P. ICKDSFSFSP2P SERVP2P
:DCL. REPLACE
&191
        DIR MYP00L1:5684042J.
        DIR MYPOOL1:5684042J.ICKDSF.OBJECT
&BAS1Z
&SAMPZ
        DIR MYPOOL1:5684042J.ICKDSF.LOCAL
        DIR MYPOOL1:5684042J.ICKDSF.DELTA
&DELTZ
        DIR MYPOOL1:5684042J.ICKDSF.ALTAPPLY
&APPLX
&APPLZ
       DIR MYPOOL1:5684042J.ICKDSF.PRDAPPLY
&BLD0Z DIR MYP00L1:5684042J.ICKDSF.TEST
&DISK9 DIR MYPOOL1:5684042J.ICKDSF.BUILDHLP
&ICKID1 USER 5684042J
:EDCL.
:FND.
```

(This override will replace the :DCL. section of the **ICKDSFSFS** and **ICKDSFSFSP2P** override areas of the SERVP2P \$PPF file.)

**3** If your \$PPF override file was created at file mode A, copy it to file mode D—the Software Inventory minidisk (MAINT710 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 \*

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

5 Update the VM SYSSUF Software Inventory table. Since you created a PPF override to the SERVP2P \$PPF file you need to make sure that the override name you created is reflected in the PPF tags for ICKDSF in the VM SYSSUF table. Type in the command VMFUPDAT SYSSUF. This will bring up a panel so that you can change the PPF names stored in the VM SYSSUF file. Locate 5684042J under the 'Prodid' column. Replace the PPF name for INSTPPF, BLDPPF and P2PPPF for 5684042J with your new PPF override file name. Use PF5 to process your changes.

Now that the *overname* PPF file has been created, you should specify *overname* instead of SERVP2P or 5684042J as the PPF name to be used for those VMSES/E commands that require a PPF name.

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Time required to install the product	1	2	3	4	5	Ν
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Necessity of all installation tasks	1	2	3	4	5	Ν
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Installation verification procedure	1	2	3	4	5	Ν
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Ease of migrating the product from a previous release	1	2	3	4	5	Ν
Ease of putting the system into production after installation		2	3	4	5	N
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