

PCSA

**VMS Services for PCs
Release Notes, Version 3.0**

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VMS Services for PCs Release Notes, Version 3.0

The following sections contain information about:

- **Upgrading your server to PCSA V3.0 from PCSA V2.1 or earlier**
- **Known problems**
- **PCSA Manager Commands and Privileges**
- **PCDISK Error Messages**
- **Documentation**
- **Corrections**

Upgrading Your Server to PCSA V3.0 from PCSA V2.1 or Earlier

Before you can upgrade your server to PCSA Version 3.0, you have to decide whether or not you want to retain your current service database.

If you want to retain your service database, proceed to the section "Upgrading Your Server and Retaining Your Server Database."

If you do want to retain your service database, proceed to the section "Upgrading Your Server and Losing Your Server Database."

Upgrading Your Server and Retaining Your Service Database

To upgrade your server to PCSA V3.0 and retain your current service database, you must apply all of the intermediate versions of the server up to and including PCSA V2.2.

Upgrading Your Server and Losing Your Service Database

To upgrade your server to PCSA V3.0 and lose your current service database, you can install PCSA V3.0 directly onto your current server.

Increasing File Server Performance

There are two methods you can use to increase the performance of the file server:

- **Open file caching**
- **Read and write raw operations**

Open File Caching

The server uses a form of caching referred to as Open file caching, which is disabled by default. When enabled, Open file caching delays the closing of a file on the server, although the server tells the client the file has been closed. The server holds the file open for a time specified by the logical PCFS\$CLOSE_DELAY. The default for PCFS\$CLOSE_DELAY is 15 seconds.

Open file caching provides significant performance gains when running in environments where files are constantly being opened and closed, as in database manipulation.

There is a side effect on VMS interactive users and any applications that may be running under VMS and sharing files with the DOS system. If an application or VMS user tries to access the file inside the time limit set by PCFS\$CLOSE_DELAY, the following message is displayed:

```
file locked by another user, unable to open
```

When enabling PCFS\$CACHE_OPEN_FILES, you must know what type of sharing is taking place on your server.

You can also tune the server's basic file data caching parameters to your systems configuration. For information, see *Server Administration with Commands*.

Read and Write Raw Operations for PCSA V3.0 Clients

The PCSA V3.0 server can use the Read and Write raw modes of the LAN Manager protocol. This feature increases your file server performance if you are in an environment that is making large record transfers. You can only use this feature on a server that is servicing PCSA V3.0 clients.

To enable the Read and Write raw feature, edit SYS\$STARTUP:PCFS_LOGICALS.COM and add the following lines:

```
DEFINE/SYSTEM/EXECUTIVE/NOLOG PCFS$READBRAW_OVER_BUFFER TRUE  
DEFINE/SYSTEM/EXECUTIVE/NOLOG PCFS$WRITEBRAW_OVER_BUFFER TRUE
```

Restart the file server by entering:

```
$ @SYS$STARTUP:PCFS_STARTUP.COM
```

Known Problems

This section describes the known problems and anomalies in the current release.

Starting LASTDRIVER with Insufficient NPAGEDYN

Make sure you have sufficient amounts of NPAGEDYN and NPAGEVIR before attempting to install the server (see Chapter 2 of the *Installation Guide: VMS Services for PCs*). If a very low amount is available on the system when LASTDRIVER is started, a fatal bugcheck may occur. This could result in a system crash, depending on the state of the BUGCHECKFATAL system parameter.

Naming Devices

Certain device names are reserved for use by PCSA, and should not be used as device labels for disk volumes or other devices. The list of PCSA reserved device names is:

- LAST_x
- LAD_x
- LAC_x

Where:

x Is an optional digit that may be appended to the device name.

Do not define device labels that begin with LAST, LAD or LAC. Instead, you can prefix disk names with DISK\$.

Creating Print Queues on Mixed Cluster Systems

On mixed cluster systems (VMS V5.x with VMS V4.7), all physical and generic print queues should be created on the 5.x system if they will be offered as PC print services. This is due to a difference in the VMS system service which is used to obtain queue information. For customers who are using mixed cluster environments but cannot move the print queues, a patch is available through Atlanta. The patch should only be considered if relocating the queue is not possible.

PCDISK and Special Characters in DOS File Specifications

PCDISK returns an error when the following special characters are used within a DOS file specification.

Character	Situation
?	Is the first character.
^	Is the first character.
(or)	Is anywhere in the file specification.

Character	Situation
!	Anywhere ignores all characters to the right of it.

To avoid this problem, enclose the DOS file specification in quotation marks. For example:

```
A:\>dir "???.bat"  
A:\>attrib "^abc.dat" /read-only  
A:\>copy hoolay.dat "tim.(m)"  
A:\>rename qwan.dat "ab!cd!e.x!y"
```

File Server (PCFS_SERVER) Default State

The startup file has been modified to set the default server state to accept connection requests from workstations that are not registered in the DECnet node data base.

Secondary Passwords

PCSA does not support secondary passwords. Attempting to connect to a dual password account will fail with an invalid service or password error.

Password Expiration

VMS passwords can expire and a PC user may not be aware of it because there is no way for VMS to notify the PC client that the password is due to expire, as it does for interactive logins. It is recommended that the system administrator set all password expirations to the same date, thus all passwords on the system will expire simultaneously, and PC users can be notified in advance.

Purging Old Log Files

Periodically, it is recommended that you purge the SYS\$SPECIFIC:[PCSA] and SYS\$COMMON:[PCSA] directories. This will remove old PCSA log files. You can use the /KEEP=*n* qualifier on the PURGE command, where *n* is the number of versions of each file that should be retained.

The PCSA MENU Utility and the DEFAULT UAF Entry

When the PCSA MENU utility creates a user account, it uses the UAF entry DEFAULT to determine what the account should look like. This includes all flags and restrictions that can be applied to an account. If the DEFAULT UAF entry has been altered to meet the needs of the system, those changes will be reflected in any accounts created using the PCSA Manager.

PCSA Manager Commands and Privileges

Table 1 contains a list of PCSA_MANAGER commands and the privileges required to use each command. This list supersedes the privileges listed in *Server Administration with Commands*.

Table 1 PCSA Manager Commands

Command	Object	Privileges Required
ADD	CLIENT_OS	VOLPRO, LOG_IO, PHY_IO, OPER, SYSPRV
	NODE	OPER, SYSPRV, BYPASS
	SERVICE	OPER, SYSPRV
	TEMPLATE	OPER, SYSPRV, BYPASS
	USER	OPER, SYSPRV, BYPASS
	WORKSTATION	OPER, SYSPRV, BYPASS
BROADCAST		OPER, SYSPRV
CLOSE	FILE_SERVER, FILE	OPER, SYSPRV
CREATE	DISK	OPER, SYSPRV
DELETE	DISK	OPER, SYSPRV
DENY		OPER, SYSPRV
DISMOUNT	DISK	OPER, SYSPRV
GRANT		OPER, SYSPRV
ADMINISTRATE (MENUS)		No privileges required.
MODIFY	DISK	OPER, SYSPRV
	USER	OPER, SYSPRV, BYPASS
	WORKSTATION	OPER, SYSPRV, BYPASS
MOUNT	DISK	OPER, SYSPRV
REMOVE	CLIENT_OS	VOLPRO, LOG_IO, PHY_IO, OPER, SYSPRV
	NODE	OPER, SYSPRV
	SERVICE	OPER, SYSPRV
	TEMPLATE	OPER, SYSPRV, BYPASS

Table 1 (Cont.) PCSA Manager Commands

Command	Object	Privileges Required
	USER	OPER, SYSPRV, BYPASS
	WORKSTATION	OPER, SYSPRV, BYPASS
SET	CHARACTERISTICS	OPER, SYSNAM, SYSPRV
	DISK_SERVER CHARACTERISTICS	OPER, SYSNAM, SYSPRV
	DISK_SERVER SERVICE	OPER, SYSPRV
	FILE_SERVER CHARACTERISTICS	OPER, SYSPRV
	FILE_SERVER SERVICE	OPER, SYSPRV
SHOW	CLIENT_OS	No privileges required.
	DISK_SERVER CHARACTERISTICS	No privileges required.
	DISK_SERVER CONNECTIONS	No privileges required.
	DISK_SERVER COUNTERS	No privileges required.
	DISK_SERVER SERVICES	No privileges required.
	FILE_SERVER CHARACTERISTICS	No privileges required.
	FILE_SERVER CONNECTIONS	No privileges required.
	FILE_SERVER COUNTERS	No privileges required.
	FILE_SERVER OPEN_ FILES	No privileges required.
	FILE_SERVER SERVICES	No privileges required.
	FILE_SERVER SESSIONS	No privileges required.
	FILE_SERVER STATUS	No privileges required.
	TEMPLATES	No privileges required.
	USERS	OPER, SYSPRV
	VERSION	No privileges required.

Table 1 (Cont.) PCSA Manager Commands

Command	Object	Privileges Required
	WORKSTATIONS	No privileges required.
START	DISK_SERVER CONNECTIONS	OPER, SYSPRV
	FILE_SERVER CONNECTIONS	OPER, SYSPRV
STOP	FILE_SERVER LOGGING	OPER, SYSPRV
	DISK_SERVER CONNECTIONS	OPER, SYSPRV
	FILE_SERVER CONNECTIONS	OPER, SYSPRV
ZERO	FILE_SERVER LOGGING	OPER, SYSPRV
	DISK_SERVER COUNTERS	OPER, SYSPRV

PCDISK Error Messages

The following PCDISK error messages supersede those in *Server Administration with Commands*.

PCDISK-E-ALOUTRANG, ALLOCATION quantity must be within 'min' to 'max' blocks

Explanation: PCDISK could not create the specified virtual disk file with the /ALLOCATION size specified.

User Action: Use an allocation quantity within the identified range for that size disk. For further assistance, enter:

```
HELP CREATE /SIZE
```

The information displayed contains a table of supported virtual disk sizes along with their valid allocation quantity ranges.

PCDISK-E-EACCDRV, Error accessing drive 'drv:'

Explanation: PCDISK could not access the DOS drive.

User Action: Check the extended error message displayed on the next line for further explanation. This is the emulation of the DOS "Not ready error reading drive X:" "Abort, Retry, Fail?". It will only occur on connections to a physical diskette and PCSA virtual disk service connections.

PCDISK-E-EATTRIB, Error setting attributes on file(s) 'file-spec'

Explanation: PCDISK could not set the DOS file attributes on the specified files.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-ECONN, Error connecting drive 'drv:'

Explanation: PCDISK could not connect to the specified drive letter.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-ECONNECT, Error connecting drive 'drv:' as 'DOS-dev-spec'

Explanation: PCDISK could not connect the drive letter to the specified DOS device.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-ECHDIR, Error changing directory to 'directory-spec'

Explanation: PCDISK could not change default directories.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-ECOPY, Error copying 'file-spec' to 'file-spec'

Explanation: PCDISK could not copy the file.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-ECREATE, Error creating 'virtual-disk-file'

Explanation: PCDISK could not create the specified virtual disk file.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-EDELETE, Error deleting file 'file-spec'

Explanation: PCDISK could not delete the file.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-EDINUSE, Specified drive is currently in use

Explanation: This message is displayed when you specify the **FORMAT** command with a **/DEVICE=diskette_device** and a drive letter that are currently connected to something other than the specified device.

User Action: Either use a free drive letter or specify the correct device for that letter.

Subsequent formats of a diskette device that was initially specified with the **/DEVICE** qualifier need only specify the drive letter.

PCDISK-E-EDISCONNECT, Error disconnecting drive 'drv:'

Explanation: PCDISK could not disconnect the specified drive letter.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-EEXPORT, Error exporting 'DOS-file-spec' to 'VMS-file-spec'

Explanation: PCDISK could not copy the DOS file to VMS.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-EFORMAT, Error formatting drive 'drv:' disk 'DOS-dev-spec'

Explanation: PCDISK could not format the DOS device.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-EIMPORT, Error importing 'VMS-file-spec' to 'DOS-file-spec'

Explanation: PCDISK could not copy the VMS file to DOS.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-EINDRV, Invalid drive specification

Explanation: PCDISK found an invalid DOS drive specification. You may have:

- Omitted a required DOS drive command parameter.
- Specified an unconnected drive where a connection is required.
- Specified a connected drive where a free drive is required.
- Used an invalid syntax.

User Action: The correct syntax is an upper or lower case alphabetic letter followed by a colon. For example:

A:
b:
Z:
a:
d:
z:

PCDISK-E-EMKDIR, Error creating subdirectory 'dir-spec'

Explanation: PCDISK could not create the subdirectory.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-ENOCNN, No established connections

Explanation: There are currently no established connections associating a DOS drive with a DOS device.

User Action: Use the USE command to establish a connection. Enter the following command to display information about supported DOS devices that may be connected:

```
HELP DOS_devices
```

PCDISK-F-ENOMEM, Insufficient memory for allocation of file or device buffers

Explanation: PCDISK got an error when attempting to allocate memory for required data structures or buffers to perform the specified command.

User Action: Contact your system manager.

PCDISK-E-ERDONLY, Specified drive is connected read only

Explanation: You tried to write to a drive that is connected read-only.

User Action: Disconnect the drive, reconnect it with write access, and reenter the command.

PCDISK-E-ERENAME, Error renaming 'file-spec' to 'file-spec'

Explanation: PCDISK could not rename the file.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-ERMDIR, Error removing subdirectory 'dir-spec'

Explanation: PCDISK could not remove the subdirectory.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-ETYPE, Error typing file 'file-spec'

Explanation: PCDISK could not type the file.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-EVOLUME, Error setting drive 'drv:' volume label to 'label'

Explanation: PCDISK could not set the volume label on the specified drive.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-EXCOPY, Error performing XCOPY from 'file-spec' to 'file-spec'

Explanation: PCDISK could not perform the XCOPY command specified.

User Action: Check the extended error message displayed on the next line for further explanation.

PCDISK-E-FNF, File not found

Explanation: PCDISK could not find the specified file.

User Action: Check your default path, or your path specification, and verify that the device, directory, file name, and file type were all specified correctly.

PCDSHR-E-BADBPB, Non-DOS disk, or partitioned hard disk format

Explanation: The DOS device has an invalid BIOS parameter block.

User Action: If it is a virtual disk file, try connecting it using the /HARD_DISK qualifier. It may be in hard disk format.

PCDSHR-E-BADFAT, Invalid FAT format

Explanation: PCDISK detected an invalid file allocation table. The virtual disk is probably corrupted.

User Action: Try connecting to it with a DOS PC through PCSA and run CHKDSK.

PCDSHR-E-BADPTBL, Invalid partition table entry

Explanation: The virtual hard disk partition table has an invalid entry.

User Action: Try mounting the virtual disk without the /HARD_DISK qualifier. It may be in floppy format.

PCDSHR-E-CONNREJ, LAD connect rejected

Explanation: This message is displayed when connecting to a PCSA supported virtual disk service. The connection was rejected because of an invalid nonexistent password.

User Action: Reenter the command and specify a valid password.

PCDSHR-E-COPYSELF, File cannot be copied onto itself

Explanation: You tried to copy a file to itself.

User Action: The input and output specifications in a COPY operation must be different.

PCDSHR-E-CTRLC, CTRL/C pressed, operation canceled

Explanation: This is an internal error message which will never be issued by the CLI. The PCDISK shareable image has canceled the current operation as a result of operator interruption, and has done any cleanup required. Cancel interruption is supported and this error is returned when it occurs.

User Action: No user action is required.

PCDSHR-E-DEVALLOC, Device is allocated to another user

Explanation: You tried to mount a diskette device that is allocated to another user.

User Action: Enter the following command to determine who has the device mounted:

```
SHOW DEV/FU devx:
```

PCDSHR-E-DEVMOUNT, Device is already connected

Explanation: You tried to mount a diskette device that is already mounted.

User Action: Enter the following command to assist in recovery of the mounted device:

SHOW DEV/FU devx:

PCDSHR-E-DINUSE, Specified drive is currently in use

Explanation: You tried to connect a virtual disk to a drive letter that currently has a DOS device connected.

User Action: Reenter the command and specify an unused drive letter or handle.

PCDSHR-E-DNF, Directory not found

Explanation: PCDISK could not find the specified subdirectory.

User Action: Make sure your path is specified correctly. Make sure you specified a directory.

PCDSHR-E-DNSUPP, Device type not supported

Explanation: You specified a device type that is not supported.

User Action: Specify a supported device. PCDISK supports:

- RX33s at 1.2MB
- RX23s at 1.4MB

PCDSHR-E-EACCES, Permission denied on file operation

Explanation: You tried one of the following:

- To write to a read-only file
- To do a file operation to a subdirectory

User Action: Do not attempt to write to a read-only file. If you want to delete a subdirectory, use the RMDIR command.

PCDSHR-E-EBADF, Invalid file handle

Explanation: An invalid file handle was passed to a PCDISK callable routine.

User Action: Check for programming errors.

PCDSHR-E-EBUFTOSM, Buffer is too small to fit requested information.

Explanation: A PCDISK routine was called with an insufficient buffer size to contain the requested information.

User Action: Check for programming errors.

PCDSHR-E-EDEXST, Directory already exists

Explanation: You tried one of the following:

- To create a subdirectory that already exists
- To create a subdirectory with the same name as an existing file

User Action: Make sure the subdirectory does not already exist. Do not attempt to create a subdirectory with the same name as an existing file.

PCDSHR-E-EDNOEMP, Directory is not empty

Explanation: PCDISK cannot remove a directory unless it is empty.

User Action: Delete the files within the directory and reenter the command.

PCDSHR-E-EDRONLY, Target drive is connected read only

Explanation: You tried to write to a drive that is connected read-only.

User Action: Check for programming errors. Disconnect the drive and reconnect it with write access.

PCDSHR-E-EDSELCT, Cannot remove currently selected directory

Explanation: PCDISK cannot remove the current default directory.

User Action: Use the CHDIR command to move to an upper level directory or the root directory. Reenter the command.

PCDSHR-E-EFEXST, File already exists

Explanation: You tried to do a non-supersede file create when the specified file already exists. This usually occurs on a RENAME command.

User Action: Do not attempt to rename a file to a name that is the same as an existing file.

PCDSHR-E-EFRONLY, Attempted write access to a read only file

Explanation: You tried to write to a file that has the DOS read-only attribute set.

User Action: Use the ATTRIB or SET FILE command to modify the file attribute. Reenter the command.

PCDSHR-E-EINDIR, Invalid directory specification

Explanation: PCDISK found an invalid directory specification.

User Action: Check delimiters in the directory specification.

PCDSHR-E-EINDRV, Invalid drive specification

Explanation: PCDISK found an invalid DOS drive specification. You have specified an unconnected drive where a connected drive is required.

User Action: Check the delimiters in the drive specification.

PCDSHR-E-EINFIL, Invalid file specification

Explanation: PCDISK found an invalid file specification.

User Action: Check delimiters in file specification.

PCDSHR-E-EINPAT, Invalid path specification

Explanation: PCDISK found an invalid path specification. This message is displayed if the specified path is greater than 63 characters.

User Action: Use the CHDIR command to move closer to the object directory. This requires a smaller path specification.

PCDSHR-E-EINVAL, Invalid argument

Explanation: An invalid argument was passed to a PCDISK callable routine.

User Action: Check for programming errors. This message is currently displayed only by the seek routines.

PCDSHR-E-EMFILE, Too many open files

Explanation: You tried to open more files than PCDISK allows.

User Action: Check for programming errors. You can open 64 DOS files and 10 RMS files.

PCDSHR-E-EMTPTBL, Empty partition table

Explanation: The virtual disk has an empty partition table.

User Action: Try mounting the virtual disk without the /HARD_DISK qualifier. It may be in floppy format.

PCDSHR-E-ENOMEM, Insufficient memory for allocation of file or device buffers

Explanation: An error occurred while attempting to allocate memory for required data structures or buffers to perform the specified function.

User Action: Check user and system parameters limiting memory resources.

PCDSHR-E-ENOSPC, No space left on drive

Explanation: You tried to allocate space on a drive that is full.

User Action: Use a larger virtual disk, multiple diskettes or purge the current disk.

PCDSHR-E-ENOTCONN, Drive not connected

Explanation: You tried to disconnect a drive that is not connected.

User Action: Make sure your drive specification is correct.

PCDSHR-E-ERECSIZE, Fixed length record size must be even

Explanation: You specified a record size that is not an even number.

User Action: When exporting a file to a fixed length record format, you must specify the size as an even number. The default is 512 and the range is 2 to 32766.

PCDSHR-E-ESRONLY, Attempted to remove a read only subdirectory

Explanation: You tried to remove a subdirectory that has the DOS read-only attribute set.

User Action: Use the ATTRIB or SET FILE command to modify the subdirectory attribute. Reenter the command.

PCDSHR-E-EXDEV, Cannot rename a file to another device

Explanation: You tried to rename a file across a drive.

User Action: Use the COPY and DEL commands to move a file to a different drive.

PCDSHR-E-FNF, File not found

Explanation: PCDISK could not find the specified file.

User Action: Check your default path, or your path specification. Make sure you specified the device, directory, file name, and file type correctly.

PCDSHR-E-HDINUSE, Specified drive, or sequence drive for partition, is in use

Explanation: PCDISK requires that virtual disks in hard disk format have their partitions mounted in sequence from the initially specified drive letter. This is done so that the programmer may assume that the third partition is mounted two drive letters after the specified drive letter within the mount command.

User Action: Check for specified, or sequence drive that may be currently mounted.

PCDSHR-E-HDSKERR, LAD Server disk error

Explanation: This message is displayed when connecting to a PCSA supported virtual disk service. A hard disk error has occurred on the server.

User Action: Do one of the following:

- Disconnect and try to reconnect.
- Contact the system manager for the server offering the virtual disk service.

PCDSHR-E-IMPWLDOUT, Import file is incompatible, output spec cannot have wildcards

Explanation: When importing a file whose name is incompatible with DOS file naming conventions, you cannot use wildcards within the output file specification.

User Action: You must specify a valid DOS file name for output.

PCDSHR-E-INCPVER, Incompatible DAD protocol version

Explanation: This message is displayed when there is an incompatibility between protocols when connecting to a PCSA supported virtual disk service.

User Action: Contact your system manager.

PCDSHR-E-INSUFCSP, Insufficient contiguous space on device

Explanation: There is insufficient contiguous space on the specified device. Creating a virtual disk file by default is "contiguous-best-try".

User Action: If a contiguous file is required, you can purge or do a VMS backup and restore to create more contiguous space for your virtual disk file.

PCDSHR-E-IVSIZE, Unrecognized or ambiguous size specification

Explanation: Either the /SIZE= specification within the CREATE virtual disk command is invalid, or it needs more letters to make it unique.

User Action: Enter the following command for a list of valid keywords:

```
HELP CREATE /SIZE
```

PCDSHR-E-LADINUS, Writable LAD service is in use

Explanation: This message is displayed when connecting to a PCSA supported virtual disk service. Another user is already connected to the requested service.

User Action: Only one person at a time can connect and use a writable virtual disk service.

PCDSHR-E-LADUNER, Unexpected LAD error: 'error #'

Explanation: This message is displayed by the server when connecting to a PCSA supported virtual disk service.

User Action: Contact your system manager.

PCDSHR-E-MAXCONX, Maximum connections exceeded

Explanation: This message is displayed when connecting to a PCSA supported virtual disk service. The maximum number of connections allowed by the PCSA server has been exceeded.

User Action: Contact your system manager, who can increase the maximum number of allowable connections.

PCDSHR-E-NDAVAIL, No device table entries available

Explanation: You tried to mount a drive, but the maximum number of drives has been exceeded.

User Action: Check for programming errors. You cannot mount more than 26 drives (the number of letters in the alphabet).

PCDSHR-F-NOMEM, Insufficient memory for allocation of file or device buffers

Explanation: This message is displayed while attempting to allocate memory for required data structures or buffers to perform the specified function.

User Action: Check user and system parameters limiting memory resources.

PCDSHR-E-NPHYDEV, Format may only be issued to a physical (non-virtual) device

Explanation: You tried to do a low level physical device format to a non-physical device. This should never happen when using the CLI.

User Action: Check for programming errors.

PCDSHR-E-OBSOLETE, Obsolete shareable image routine called, relink required

Explanation: The routines which allocated data structures when importing and exporting files have been incorporated within other main routines. The entries have been left in the shareable image transfer vector table to maintain compatibility across versions.

User Action: Check for programming error.

PCDSHR-E-SVCNOFF, LAD service not offered

Explanation: The specified PCSA virtual disk service is not currently offered on the network.

User Action: Make sure you spelled the node and service specifications correctly.

Documentation

The differences between VMS Services for PCs, Version 3.0 documentation and the documentation for earlier versions of VAX/VMS Services for MS-DOS are:

- Several books have new names, as shown in the following table:

Former Name	New Name
<i>VAX/VMS Services for MS-DOS Installation Guide</i>	<i>Installation Guide: VMS Services for PCs</i>
<i>Setup and Management Using PCSA Manager Menu</i>	<i>Server Management with the Menu</i>
<i>VAX/VMS Services for MS-DOS Administration Guide</i>	<i>Server Administration with Commands</i>

These three books, plus the *Network Troubleshooting Guide* make up the documentation set and are packaged together in two binders.

- The *Server Management with the Menu* has been reorganized to reflect system administration tasks.
- Adding a workstation is now done by the Netsetup utility. Since you can no longer add a workstation from the PCSA Manager Menu, this task is not discussed in *Server Management with the Menu*.

To add a workstation, see *Installation and Configuration Guide: DECnet PCSA Client for DOS (VMS Media)* in the documentation for DECnet PCSA Client for DOS software.

Corrections

SYSMWCNT Value

On Page 1-12 of *Installation Guide: VMS Services for PCs*, the following sentence is incorrect:

The required value of SYSMWCNT in this example is 755.

The sentence should read:

The required value of SYSMWCNT in this example is 756.

Calculating NPAGEDYN for the File Server

The file server requires 310,000 bytes (NPAGEDYN) to run properly. If you have a prior version of PCSA installed, you have already allocated that space. Disregard the calculation in step 6, on page 1-14, of the *Installation Guide: VMS Services for PCs*.

NOTE

To tune the disk server cache, see *Server Administration with Commands*.

NPAGEDYN Value

On Page 1-14 of *Installation Guide: VMS Services for PCs*, the following sentence is incorrect:

For example, if the current value of NPAGEDYN is 626,280:

The sentence should read:

For example, if the current value of NPAGEDYN is 326,280:

NCP SHOW EXECUTOR command

On Page 1-15 of *Installation Guide: VMS Services for PCs*, the following sentence is incorrect:

```
NCP> NCP SHOW EXECUTOR
```

The sentence should read:

```
NCP> SHOW EXECUTOR
```

Installing PC DECWindows on Server Not Running PCSA

In *Server Administration with Commands*, Chapter 1 describes how to install PC DECwindows on a server that is not running PCSA. On page 1-11, the NFT commands are incorrect. The following information is correct:

1. Use the Network File Transfer (NFT) utility to copy the program from the PCSA system device to the remote system. On a VAX system, enter the following text on **one** command line and then press the Return key:

```
C:\>NFT COPY/IMAGE d:\XSERVER\REMOTE\PCX_VAX.ULT nodename  
"username password"::/usr/bin/pcx_server 
```

On a DECstation system, enter the following text on **one** command line and then press the Return key:

```
C:\>NFT COPY/IMAGE d:\XSERVER\REMOTE\PCX_DECS.ULT nodename  
"username password"::/usr/bin/pcx_server 
```

Incorrect Table Title

In *Server Administration with Commands*, the title of Table 9-1 should be PCSA MANAGER Commands, not PCSA MANAGER File Server Commands.