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WPS-PLUS

WPS-PLUS for VMS Installation Guide

January 1991

WPS-PLUS for VMS is word processing software that runs on the VMS operating system. This guide describes how to install and maintain WPS-PLUS for VMS. Read the entire guide before starting the installation.

Operating System:	VMS Version 5.2 or higher
Software Version:	WPS-PLUS for VMS, Version 4.0

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Preface

WPS-PLUS software for the VMS operating system is word processing software that runs on the VMS operating system. You use WPS-PLUS software to create and work with documents such as letters, memos, and reports.

Purpose of This Guide

This guide describes how to install and maintain WPS-PLUS for VMS. Read the entire guide before starting the installation.

Audience

This guide is for VMS system managers or others responsible for installing VMS layered products.

Structure of This Guide

Chapter 1 describes the tasks to be done before installing WPS-PLUS software.

Chapter 2 describes the process of installing WPS-PLUS software.

Chapter 3 describes the required and optional tasks to be done after installing WPS-PLUS software.

Chapter 4 describes the process of running the installation verification procedure for WPS-PLUS software.

Appendix A describes a sample WPS-PLUS installation.

Appendix B describes the files and logical names installed during the WPS-PLUS installation.

Appendix C describes the WPS-PLUS error messages.

Appendix D describes the WPS-PLUS diagnostic tools.

Prerequisites

To install WPS-PLUS software, you must have access to a privileged account and be familiar with the VMS installation procedure (VMSINSTAL). You also should be familiar with VMS system management.

For More Information

See the online help, the online release notes, the online changes notes, or the following documents for more information about the WPS-PLUS software:

- *WPS-PLUS for VMS Getting Started*—describes how to do basic word processing with the WPS-PLUS Editor.
- *WPS-PLUS for VMS Keyboard Reference Cards*—summarize WPS-PLUS functions and keys.
- *WPS-PLUS for VMS Mini-Reference*—provides quick reference information for WPS-PLUS keyboards, key functions, basic information, and step-by-step procedures for most WPS-PLUS functions.
- *WPS-PLUS for VMS Printer Characteristics*—describes how to use the WPS-PLUS Printer Table Utility.
- *WPS-PLUS for VMS User's Reference*—describes most features of the WPS-PLUS software.

For more information about installing WPS-PLUS on VMS systems, see your processor-specific installation/operations guide.

Conventions

The following conventions are used in this guide:

Ctrl/x	Indicates that you must hold down Ctrl while you press another key.
RETURN	A key name is shown enclosed to indicate that you press a key on the keyboard.

. . .	In examples, a horizontal ellipsis indicates one of the following possibilities: ■ Additional optional arguments in a statement have been omitted. ■ The preceding item or items can be repeated one or more times. ■ Additional parameters, values, or other information can be entered.
. . .	A vertical ellipsis indicates the omission of items from a code example or command format; the items are omitted because they are not important to the topic being discussed.
< >	Means press the key enclosed in angle brackets.
( )	Gives additional information that helps you find the key to press. For example: Press GOLD BOT DOCMT (B) means press the GOLD key, then the BOT DOCMT key, which is the B key.
[ ]	In format descriptions, brackets indicate that whatever is enclosed is optional; you can select none, one, or all of the choices.
{ }	In format descriptions, braces surround a required choice of options; you must choose one of the options listed.
$	Indicates the VMS operating system prompt. This prompt might differ on your system.
user input	Blue-green ink indicates information that you must enter from the keyboard. For online versions, user input is shown in **bold.**
UPPERCASE LETTERS	Uppercase letters indicate WPS-PLUS editor functions. For the location of these functions, see the keyboard diagram.
language	Indicates in a file name that the language-specific file should be used. For example, WPL$*language*.EXE indicates WPL$FRENCH.EXE for the French language, WPL$ENGLISH.EXE for the English language, and so on.

Throughout the documentation, the name WPS-PLUS for VMS refers to the product name in the following table, according to the language installed.

Language	Product Name	Saveset Name
American English	WPS-PLUS for VMS, V4.0	WPLENGLISH040
British English	WPS-PLUS/BRITISH for VMS, V4.0	WPLBRITISH040
Dutch	WPS-PLUS/NEDERLANDS voor VMS, V4.0	WPLDUTCH040
French	WPS-PLUS/FRANÇAIS pour VMS, V4.0	WPLFRENCH040

Language	Product Name	Saveset Name
Hebrew	WPS-PLUS/HEBREW for VMS, V4.0	WPLHEBREW040
Italian	WPS-PLUS/ITALIANO per VMS, V4.0	WPLITALIAN040
Norwegian	WPS-PLUS/NORSK på VMS, V4.0	WPLNORWEGIAN040
Spanish	WPS-PLUS/ESPAÑOL para VMS, V4.0	WPLSPANISH040
Swedish	WPS-PLUS/SVENSKA för VMS, V4.0	WPLSWEDISH040

1

Preparing to Install WPS-PLUS Software

For successful installation of WPS-PLUS software for the VMS operating system, it is important to complete all procedures in this book:

- Chapter 1 discusses the preparations and requirements necessary for installing WPS-PLUS software.
- Chapter 2 describes the installation procedure.
- Chapter 3 contains *required* post-installation information and procedures.
- Chapter 4 describes the post-installation verification procedure.

Your bill of materials (BOM) specifies the part number and contents of your media; make sure you verify the contents of your kit. If your kit is damaged, or if you find that parts of it are missing, contact your Digital representative.

The WPS-PLUS software provides online Release Notes. You will be able to read and print the Release Notes before the WPS-PLUS installation begins, when you first invoke the installation procedure.

Note *Digital strongly recommends that you read the Release Notes before you proceed with the installation.*

1.1 Required Operating System Components

The VMS operating system comes with a variety of support options, or classes, which include features such as Network Support and RMS Journaling. To use WPS-PLUS for VMS, Version 4.0, your system should be running a version of the VMS operating system that includes the classes listed in Table 1–1.

Table 1–1 Required VMS Classes

Class	Abbreviation
BASE	BASE
Cluster Support	CLUS
VMS Device Drivers	DRVR
System Management Files	MNGR
Network Support	NET
Programming Support	PROG
Secure User's Environment	USER
Utilities	UTIL

1.2 Required Software

To install the WPS-PLUS software, the following software must be installed on your system:

- A valid VMS operating system configuration running Version 5.2 or higher of the operating system.
- The VAX FMS Run-Time Only System Version 2.4. The Run-Time Only System is included in the complete FMS product kit, but can be purchased separately. The complete VAX FMS product kit is not required.

Note *WPS-PLUS for VMS requires the installation of the VAX FMS forms driver files, SYS$MESSAGE:FDVMSG.EXE and SYS$SHARE:FDVSHR.EXE, as known shareable images.*

The WPS-PLUS installation procedure checks for required software. If the required software is not installed on your system, the installation ends.

1.3 Optional Software

The following products can be integrated into WPS-PLUS for VMS, Version 4.0:

- DECpage Version 3.1
- VAX Grammar Checker Version 1.0

Each of these optional products has its own installation procedure.

1.4 Types of Installations

The installation procedure determines the type of installation required, then prompts you for confirmation. For more specific information about the installation procedure, see Section 2.1. The following sections describe the criteria used to determine the type of installation required.

1.4.1 New Installation

If WPS-PLUS software has not been installed on your system or you are running WPS-PLUS for VMS, Version 3.0 or earlier, a new installation will be performed. You will be asked to provide the name of the disk on which to install the WPS-PLUS files.

If you are running WPS-PLUS for VMS, Version 3.0 or earlier, and the installation is targeted to the same disk, all WPS-PLUS system files, except the printer table files, will be overwritten.

For information about converting printer table files, see Section 3.1. For information about using the Print Table Utility, see the *WPS-PLUS for VMS Printer Characteristics*.

If you are running WPS-PLUS for VMS, Version 3.0 or earlier, modify the system startup file as described in Section 3.2 after installing WPS-PLUS for VMS, Version 4.0.

If you are a new user of WPS-PLUS software, see Chapter 3 for information on how to create user accounts and set up terminals.

1.4.2 Update Installation

If you are running WPS-PLUS for VMS, Version 3.1, an update installation will be done. Before starting the installation, make sure that the WPS-PLUS logicals are defined correctly. To check the WPS-PLUS logicals, enter the following commands:

```
$  SHOW LOGICAL WPL$IMAGE
$  SHOW LOGICAL /TABLE=WPL*
```

If the logical WPL$IMAGE is not defined, the installation procedure performs a new installation. To perform an update installation, invoke SYS$STARTUP:WPLSTART to set up the WPS-PLUS logicals.

Note *You must be running WPS-PLUS for VMS, Version 3.1 to do an **update installation**. If you are running an earlier version of WPS-PLUS software, you must do a **new installation**.*

The update installation creates multiple copies of the printer table files in the [WPSPLUS.PRINT] directory; **do not purge these files after the update installation is complete**.

For instructions on converting printer table files after the installation, see the *WPS-PLUS for VMS Printer Characteristics*.

For other information about converting printer tables, see Section 3.1. For information about using the Printer Table Utility, see the *WPS-PLUS for VMS Printer Characteristics*.

1.4.3 Additional Language Installation

If your system runs more than a single language version of WPS-PLUS software, you must update all additional language systems after the primary WPS-PLUS system has been updated. All additional language versions of WPS-PLUS software must be the same version as the primary system.

The installation procedure asks if you want an additional language installation. If you answer YES, additional language support is installed. If you answer NO, the installation proceeds as a single language update to your primary language system.

1.5 License Registration

You must register the WPS-PLUS license through the VMS License Management Facility (LMF) in accordance with the license agreement signed by your site. The Product Authorization Key (PAK) contains information you need to register the license. The PAK is a paper certificate that contains information about the license you have purchased to run a particular piece of software.

If you are installing WPS-PLUS for VMS, Version 4.0, as an update on a node or cluster already licensed for this software, you must register the Service Update PAK (SUP) that is included in your Service Update Kit. If you already registered a PAK or a SUP for this product on this node or cluster, you do not need to register the SUP. If you are installing an update of WPS-PLUS software but lack a service contract, call your Digital representative for instructions on how to get a PAK.

During the installation, the system asks whether you have registered the WPS-PLUS license and loaded the appropriate authorization key. You must register and load your license for WPS-PLUS software *before* you start the installation procedure. The installation ends if the procedure cannot verify your registration.

To register a license under the VMS operating system, first log in to the SYSTEM account. You can register the license in either of two ways:

- Invoke the SYS$UPDATE:VMSLICENSE.COM procedure. When it asks you for information, enter data from your PAK.

- At the DCL prompt, enter the LICENSE REGISTER command with the appropriate qualifiers.

To use WPS-PLUS software on more than one node in a VAXcluster, you need to load the license on the other nodes after you complete this installation. For information on installing WPS-PLUS software on a VAXcluster, see Section 3.5.

For complete information on using LMF, see the *VMS License Management Utility Manual*.

1.6 VAXcluster Configuration Types

You can install WPS-PLUS for VMS, Version 4.0, on any of three VAXcluster configuration types:

Computer Interconnect (CI)-only VAXclusters
Local Area VAXclusters
Mixed-interconnect VAXclusters

The following lists the types of clusters, provides installation information specific to each type, and defines the operating environments:

- Computer Interconnect (CI)-only VAXclusters

  CI-only clusters use the computer interconnect for interprocessor communication; the Star Coupler is the common connection point for all cluster nodes. Cluster nodes can be Hierarchical Storage Controllers (HSCs) or any VAX computer specified in the VAXcluster Software Product Description (SPD).

- Local Area VAXclusters

  Local area clusters consist of a boot server (a VAX or MicroVAX computer containing all the disks from which WPS-PLUS software is run) connected by Ethernet to a number of satellite nodes. The usual satellite node is a MicroVAX computer.

  Install WPS-PLUS software on the boot server only, using the pre-installation and installation procedures described in Chapter 1 and Chapter 2.

  Do not install WPS-PLUS software on the satellite nodes. Satellite nodes, which are used only by the individual work groups, use the boot server to access WPS-PLUS software. You must, however, check the VMS system parameters for each node on which you are going to run WPS-PLUS software. For information on VMS system parameters, see Section 1.10.

- Mixed-interconnect VAXclusters

A mixed-interconnect cluster can include VAX computers, HSCs, and MicroVAX satellite nodes. You use the same procedure to install WPS-PLUS software on mixed-interconnect and on Local Area VAXclusters.

For information on installing WPS-PLUS software in a VAXcluster, see Section 3.5 and the *VMS VAXcluster Manual*.

1.7 Required Time

The installation should take approximately two hours, depending on your media and your system configuration.

1.8 Required Privileges

Install WPS-PLUS software from the system manager's account, with full privileges. The installation procedure turns off the BYPASS privilege at the start of the installation.

1.9 Required Disk Space

You can install WPS-PLUS software on the system disk or on an alternate disk. Whether you install WPS-PLUS software on the system disk or on an alternate disk, the installation requires the following amounts of disk space before and after the installation:

- If you install WPS-PLUS software on the *system* disk:

  BEFORE installation, you must have 27,000 free blocks available on the *system* disk.

  AFTER installation, WPS-PLUS software will use 22,000 blocks of the *system* disk.

- If you install WPS-PLUS software on an *alternate* disk:

  BEFORE installation, you must have 27,000 free blocks available on the *system* disk, and 16,000 free blocks available on the *alternate* disk.

  AFTER installation, WPS-PLUS software will use 6,000 blocks of the *system* disk and 16,000 blocks on the *alternate* disk.

- The optional Encapsulated PostScript graphics files require an **additional** 3000 blocks on the disk WPS-PLUS software is installed on.

- The linguistic components of WPS-PLUS software require an **additional** 1200 blocks on the disk you install them on.

You can change the device on which you installed WPS-PLUS software to rearrange your disk space use. To change the device on which you installed WPS-PLUS software after the installation is complete, follow the procedure described in Section 3.7.

To determine the number of free blocks on the system or the alternate disk, enter the following command:

```
$ SHOW DEVICE ddcu:
```

Substitute for *ddcu:* the device name of the disk on which you installed, or will install, WPS-PLUS software in the previous example.

1.10 Required System Parameter Values

This section describes how to do the following tasks:

- Check the system parameter values.
- Calculate values for the GBLPAGES and GBLSECTIONS system parameters.
- Change the values of GBLPAGES, GBLSECTIONS, VIRTUALPAGECNT, and WSMAX using the VMS AUTOGEN command procedure.

1.10.1 Required System Parameter Values for Installation

Table 1–2 lists the required system parameter values for the installation. The table lists only nonstandard parameter settings. SYSGEN default values are adequate for those settings not listed. Depending on the kinds of programs and applications running at your site, you might need higher values for some settings.

Note *If your system's current SYSGEN parameters are set at higher values than those listed in Table 1–2, do not reduce those values.*

Table 1–2 Minimum Required System Parameter Values for Installation

System Parameter	Value
GBLPAGES[1]	n + 9000
GBLSECTIONS[1]	n + 40

[1]The n variable refers to the system parameter values that are currently in use. See Section 1.10.4 for information on how to determine the system parameter values required for your installation of WPS-PLUS software.

(continued on next page)

Table 1–2 (Cont.) Minimum Required System Parameter Values for Installation

System Parameter	Value
LOCKIDTBL[2]	340
RESHASHTBL[3]	85
TTY_BUF	140
TTY_TYPAHDSZ	160
VIRTUALPAGECNT	20000
WSMAX	3000

[2]The formula for calculating the LOCKIDTBL parameter is 80 + (40 x maximum number of simultaneous users).

[3]The formula for calculating the RESHASHTBL parameter is 1/4 x the value of LOCKIDTBL.

1.10.2 Checking System Parameter Values

To check the values of your system parameters, enter the following command at the DCL prompt to run the SYSGEN utility:

```
$ RUN SYS$SYSTEM:SYSGEN
SYSGEN>
```

At the SYSGEN> prompt, enter the SHOW command to display the value of each system parameter. The values displayed should equal or exceed the value of each parameter listed in Table 1–2. For instance, the following example shows how to check the values for the VIRTUALPAGECNT system parameter:

```
SYSGEN>  SHOW VIRTUALPAGECNT

Parameter Name  Current  Default  Minimum  Maximum Unit Dynamic
--------------  -------  -------  -------  ------- ---- -------
VIRTUALPAGECNT  106304    8192     512      600000 Pages
```

After you check the parameters, enter the EXIT command at the SYSGEN> prompt to return to DCL level.

1.10.3 Recovering Global Pages and Sections

If you are performing an update installation of WPS-PLUS software, you can recover global pages (GLBPAGES) and global sections (GBLSECTIONS) by performing the following tasks:

- Run WPS-PLUS software to remove the form and TXL libraries using the following commands:

```
$  WPS/NOINIT /LANGUAGE=language
Enter CMD: OA$FBT_REMOVE OA$LIB:OAFORM
Enter CMD: OA$FBT_REMOVE OA$LIB:MEMRES
Enter CMD: OA$TXL_REMOVE
Enter CMD: EXIT
```

- Run the Install Utility to delete the known file list entry for the WPS-PLUS for VMS images and all global sections created when the images were installed using the following commands:

```
$  INSTALL
INSTALL>  DELETE WPL$IMAGE
INSTALL>  DELETE SYS$SHARE:WPL$LLVlanguage.EXE
INSTALL>  EXIT
```

1.10.4 Calculating the Values for GBLPAGES and GBLSECTIONS

To install and run WPS-PLUS software, you must calculate the values for the GBLPAGES and GBLSECTIONS system parameters, and, if necessary, increase the values for these system parameters.

Note *After changing these and other system parameter values, run AUTOGEN. Section 1.10.5 describes the procedures for running AUTOGEN and for increasing the values of other system parameters. For more information, see the* VMS System Manager's Manual.

The n + 9000 and n + 40 values for GBLPAGES and GBLSECTIONS in Table 1–2 indicate that you must have at least 9000 unused global pages and 40 unused global sections on your system.

To calculate the number of unused global pages and global sections, enter the following command to run the VMS Install Utility (INSTALL):

```
$  INSTALL LIST/GLOBAL/SUMMARY
```

The Install Utility displays a summary of global pages and global sections used by your system, as well as the current number of unused global pages. For example:

```
          Summary of Local Memory Global Sections

248 Global Sections Used,  22580/3420 Global Pages Used/Unused
```

GBLPAGES Calculations

If the number of unused global pages (3420 as shown in the previous example) is equal to or greater than 9000, you do not need to change the GLBPAGES parameter.

If the number of unused global pages is less than 9000, you need to increase the value for the GBLPAGES parameter.

Use the following procedure to determine how much to increase the GBLPAGES parameter:

1. Add the used global pages to the unused global pages to get the current value of the GBLPAGES parameter.

   Using the numbers displayed by the previous INSTALL command, this value would be 22580 plus 3420, giving a sum of 26000 global pages.

2. Subtract the number of unused global pages from the number of global pages required by WPS-PLUS, shown in Table 1–2.

   Using the numbers displayed previously, this value would be 9000 minus 3420, giving a remainder of 5580 global pages.

3. Add the remaining global pages to the current value of GBLPAGES to get the minimum amount to which GBLPAGES should be increased.

   Using the numbers from the previously displayed summaries, you would need to increase GBLPAGES to 31580. The process used to calculate that value is:

```
 22580  Used Global Pages
+  3420  Unused Global Pages
-------
  26000  Current Value of GBLPAGES
```

```
And:

  9000   Required Global Pages (from Table 1-2)
- 3420   Unused Global Pages
------
  5580   Remainder
```

```
Then:

 26000   Current Value of GBLPAGES
+ 5580   Remainder
------
 31580   Increase GBLPAGES to this minimum amount
```

Note *It is recommended to have more global pages than the minimum required. In the previous example, the minimum value for GBLPAGES was calculated as 31580. The recommended value for GBLPAGES is greater than the minimum, for example, a value of 32000.*

GBLSECTIONS Calculations

If the number of unused global sections is equal to or greater than 40, you do not need to change the GBLSECTIONS parameter. If the number of unused global sections is less than 40, you need to increase the value for the GBLSECTIONS parameter.

Use the following procedure to determine how much to increase the GLBSECTIONS parameter:

1. Note the amount of Global Sections Used (248) displayed in the previous use of the INSTALL command.

2. Run the SYSGEN utility and use the SHOW command to determine the number of allocated global sections, using the following commands:

```
$  RUN SYS$SYSTEM:SYSGEN
SYSGEN>  SHOW GBLSECTIONS

Parameter Name  Current  Default  Minimum  Maximum Unit Dynamic
--------------  -------  -------  -------  ------- ---- -------
GBLSECTIONS      250      250        20      4095 Sections
```

3. Subtract the number displayed in the previous use of the INSTALL command as Global Sections used (248) from the current amount allocated (250 as displayed by the previous SYSGEN command in this example) to determine the number of unused global sections.

   If the difference is less than 40, you need to increase the value of the GBLSECTIONS parameter.

   For example, using the figures from the summaries, you would need to increase GBLSECTIONS to 283. The process used to calculate that minimum value is:

```
          250  Current Value of GBLSECTIONS
      -   248  Global Sections Used
      -------
            2  Unused Global Sections

And:
           40  Global Sections Required (from Table 1-2)
      -     2  Unused Global Sections
      -------
           38  Remainder

Then:
          250  Current Value of GBLSECTIONS
       +   38  Remainder
       ------
          288  Increase GBLSECTIONS to this minimum amount
```

Note *It is recommended to have more global sections than the minimum required. In the previous example, the minimum value for GBLSECTIONS was calculated as 288. The recommended value for GBLSECTIONS is greater than the minimum, for example, a value of 300.*

1.10.5 Using AUTOGEN to Change System Parameter Values

To change GBLPAGES, GBLSECTIONS, and other system parameters, use the AUTOGEN command procedure.

AUTOGEN automatically adjusts values for other system parameters that are associated with the ones you reset manually. Reboot your system to activate the new system parameter values.

To change system parameters with AUTOGEN, use the following procedure:

1. Edit the file SYS$SYSTEM:MODPARAMS.DAT and add a line for each setting you want to change. For example, to change the setting for the VIRTUALPAGECNT system parameter to 20000, add the following line to the file:

   ```
   VIRTUALPAGECNT= 20000
   ```

2. Run the AUTOGEN procedure by entering the following command:

   ```
   $ @SYS$UPDATE:AUTOGEN GETDATA SETPARAMS NOFEEDBACK
   ```

   AUTOGEN recalculates the system parameters you changed, and automatically adjusts any other system parameters affected by those changes.

3. Reboot the system.

For more information about using AUTOGEN to modify system parameters, see the *VMS System Manager's Manual*.

1.11 Required Process Account Quotas

Table 1–3 summarizes the minimum required process account quotas required to install WPS-PLUS software. If the existing process account quotas are higher than those listed in Table 1–3, do not lower them.

Table 1–3 Process Account Quotas for the Installing Account

Account Quota	Value
ASTLM	100
BIOLM	50
BYTLM[1]	36500
DIOLM	50
ENQLM	200
FILLM	150
PGFLQUO	20000
PRCLM	6
TQELM	50
WSDEF[2]	256
WSEXTENT	2048
WSQUO	512

[1]Using multiple VMSINSTAL options requires a higher value for BYTLM.

[2]The values for WSEXTENT and WSQUO must be equal to or greater than the WSDEF value.

For more information on modifying account quotas, see the *VMS Authorize Utility Manual*. For information about modifying user account quotas, which also applies to modifying the installing account, see Section 3.3.3.

1.12 Required Installed Images

Before you can install the WPS-PLUS software, the following shareable images must be installed on your system:

```
SYS$SHARE:VAXCRTL.EXE
SYS$SHARE:MTHRTL.EXE
SYS$SHARE:LBRSHR.EXE
SYS$SHARE:FDLSHR.EXE
SYS$SHARE:FDVSHR.EXE
SYS$MESSAGE:FDVMSG.EXE
```

To see if these files are installed, use the VMS Install Utility (INSTALL).

At the VMS Install Utility prompt (INSTALL>), use the LIST command to enter the logical name and the file name for each previously listed shareable image. For instance, the following example checks the FDVSHR.EXE image, finds it is installed on SYS$DEVICE, then exits the VMS Install Utility.

```
INSTALL>  LIST SYS$SHARE:FDVSHR.EXE
SYS$DEVICE:<SYS0.SYSLIB>.EXE

  FDVSHR;3   Open   Hdr  Shar      Lnkbl

INSTALL>  EXIT
```

If any image is not installed, VMSINSTAL notifies you that it did not find the file in the share table.

For information on installing image files, see the *VMS Install Utility Manual*. For information on using the Install Utility, see the *VMS SYSMAN Utility Manual*.

1.13 VMSINSTAL Requirements

When you run VMSINSTAL, it checks the following:

- Whether you have set your default device and directory to SYS$UPDATE
- Whether you are logged in to a privileged account
- Whether you have adequate quotas for installation
- Whether any users are logged in to the system

If VMSINSTAL detects any problems during the installation, it notifies you and asks if you want to continue the installation. In some instances, you can enter YES to continue. To stop the installation process and correct the situation, enter NO or press RETURN. Correct the problem and restart the installation.

For more information about VMSINSTAL, see the *VMS Install Utility Manual*.

1.13.1 Backing Up Your System Disk

At the beginning of the installation, VMSINSTAL asks if you have backed up your system disk. Digital recommends that you backup your system disk before installing any software on top of the operating system.

Use the backup procedures that have been established at your site. For information on backing up a disk, see the *VMS Backup Utility Manual*.

2

Installing WPS-PLUS Software

This chapter describes how to install the WPS-PLUS software for the VMS operating system and contains step-by-step instructions for the procedure.

During the installation, you will be asked if you want to run the WPS-PLUS installation verification procedure (IVP) as part of the installation. If you respond YES, the installation procedure runs the IVP.

The release notes for WPS-PLUS for VMS, Version 4.0, are located in the file SYS$HELP:WPL*language*040.RELEASE_NOTES.

Note *Digital strongly recommends you read the release notes, which contain important information about changes, restrictions, or limitations to the product, including the installation procedure.*

After completing the steps in this chapter, follow the instructions and procedures described in Chapter 3 and Chapter 4:

- Chapter 3 contains *required* post-installation information and procedures.
- Chapter 4 describes the post-installation verification procedure.

2.1 The Installation Procedure

The WPS-PLUS installation procedure consists of a series of questions, prompts, and informational messages. For an example of a sample installation, see Appendix A. For information about the type of WPS-PLUS installation required for your system, see Section 1.4.

To end the installation procedure at any time, press CTRL Y. When you press CTRL Y, the installation procedure deletes all files it has created up to that point and exits. You then can start the installation again.

Note *When performing a WPS-PLUS update installation, make sure no one is using WPS-PLUS software or any of the help libraries during the installation or the installation might fail.*

Set the number of logins to 0 before beginning the installation to ensure that no one uses WPS-PLUS software or any of the help libraries during the update installation.

For example, if a user has any help library open when the WPS-PLUS installation is updating the help library, the WPS-PLUS installation will fail.

Perform the tasks in the following list to install WPS-PLUS for VMS, Version 4.0:

1 **Invoke VMSINSTAL.**

```
$ @SYS$UPDATE:VMSINSTAL saveset-name device-name OPTIONS N
```

To start the installation, invoke the VMSINSTAL command procedure from a privileged account, such as the SYSTEM account. VMSINSTAL is in the SYS$UPDATE directory. The following list defines the elements of the VMSINSTAL command procedure:

saveset-name
The installation name for the component. Table 2–1 lists the saveset names for each language component to be used as the installation name.

Table 2–1 Language-Specific Product and Saveset Names for WPS-PLUS Software

Language	Product Name	Saveset Name
American English	WPS-PLUS for VMS, V4.0	WPLENGLISH040
British English	WPS-PLUS/BRITISH for VMS, V4.0	WPLBRITISH040
Dutch	WPS-PLUS/NEDERLANDS voor VMS, V4.0	WPLDUTCH040
French	WPS-PLUS/FRANÇAIS pour VMS, V4.0	WPLFRENCH040
Hebrew	WPS-PLUS/HEBREW for VMS, V4.0	WPLHEBREW040
Italian	WPS-PLUS/ITALIANO per VMS, V4.0	WPLITALIAN040
Norwegian	WPS-PLUS/NORSK på VMS, V4.0	WPLNORWEGIAN040
Spanish	WPS-PLUS/ESPAÑOL para VMS, V4.0	WPLSPANISH040
Swedish	WPS-PLUS/SVENSKA för VMS, V4.0	WPLSWEDISH040

device-name
The name of the device on which you plan to mount the media. For example, MTA0: is the device name for a tape drive. It is not necessary to use the console drive for this installation. However, if you do use the console drive, you should replace any media you removed once the installation is completed.

OPTIONS N

An optional parameter that indicates you want to see the question on release notes. If you do not include the OPTIONS N parameter, VMSINSTAL does not ask you about the release notes. You should review the release notes before proceeding with the installation in case they contain additional information about the installation. If you are restarting the installation and have reviewed the release notes already, you do not need to specify OPTIONS N.

VMSINSTAL has several other options. For detailed information on these options, see the VMS documentation on software installation in the VMS System Management Subkit.

The following example invokes VMSINSTAL to install WPS-PLUS software from tape drive MTA0: and shows the system response. This example uses the OPTIONS N release note parameter.

```
$  @SYS$UPDATE:VMSINSTAL WPLENGLISH040 MTA0: OPTIONS N

              VAX/VMS Software Product Installation Procedure V5.3

It is 1-JAN-1991 at 12:34
Enter a question mark (?) at any time for help.
```

If you omit the product name and the device name, VMSINSTAL prompts you for this information later in the installation procedure.

2 Confirm system backup.

```
* Are you satisfied with the backup of your system disk [YES]?
```

VMSINSTAL asks if you are satisfied with your system backup. You should always back up your system disk before performing an installation. If you are satisfied with the backup of your system disk, press RETURN. Otherwise, enter NO to stop the installation. After you back up your system disk, you can restart the installation.

3 Mount the media.

```
Please mount the first volume of the set on MTA0:.

* Are you ready?  YES

%MOUNT-I-MOUNTED, WPLENG mounted on _MTA0:

The following products will be processed:

WPLENGLISH V4.0

    Beginning installation of WPLENGLISH V4.0 at 12:35

%VMSINSTAL-I-RESTORE, Restoring product saveset A...
```

You should now mount the first distribution volume on the device you specified when you invoked VMSINSTAL. VMSINSTAL then asks you if you are ready to continue with the installation.

If you respond YES to indicate that you are ready, VMSINSTAL displays a message that the media containing WPS-PLUS software has been mounted on the specified device and that the installation has begun.

If you entered the wrong device name when you invoked VMSINSTAL and need to restart the installation, enter NO in response to the ''Are you ready?'' question. To abort the installation for other reasons, press CTRL Y.

4 Select a release notes option.

```
Release notes included with this kit are always copied to SYS$HELP.

Additional Release Notes Options:

 1.  Display release notes
 2.  Print release notes
 3.  Both 1 and 2
 4.  None of the above

* Select option [2]:
```

If you specified OPTIONS N when you invoked VMSINSTAL, you are now asked to choose one of the four options for reviewing the release notes.

If you select option 1, VMSINSTAL displays the release notes immediately on the console terminal. To terminate the display at any time, press CTRL C.

Option 2 is the default. If you select option 2, VMSINSTAL prompts you for the name of the print queue that you want to use:

```
* Queue name [SYS$PRINT]:
```

Press RETURN to print the release notes on SYS$PRINT, or type a different queue name and press RETURN. A message similar to the following is displayed:

```
Job WPLENGLISH040 (queue SYS$PRINT, entry 159) started on SYS$PRINT
```

If you select option 3, VMSINSTAL displays the release notes immediately on the console terminal and then prompts you for a queue name for the printed version.

Select option 4 if you have reviewed the release notes already and are restarting the installation.

Next, VMSINSTAL displays the following question:

```
* Do you want to continue the installation [N]?:  YES
%VMSINSTAL-I-RELMOVED, The product's release notes have been successfully
moved to SYS$HELP.
```

To continue the installation, enter YES. Otherwise, press RETURN. In either case, the release notes are placed in the file SYS$HELP:WPL*language*040.RELEASE_NOTES.

Note *The name of the release notes file installed by VMSINSTAL consists of the saveset name and version number. Do not delete release notes for previous versions of WPS-PLUS for VMS.*

5 Purge files.

```
* Do you want to purge files replaced by this installation [YES]?
```

You have the option of purging files from previous versions of WPS-PLUS for VMS that are superseded by this installation. Purging is recommended.

6 Choose the Installation Verification Procedure (IVP) option.

```
* Do you want to run the IVP after the installation [YES]?
```

The installation procedure now asks if you want to run the IVP. The IVP for WPS-PLUS software checks to be sure that the installation is successful. Digital recommends that you run the IVP. For information on running the IVP after the installation, see Chapter 4.

After WPS-PLUS software is installed, you can run the IVP independently to verify that the software is available on your system. You might need to run the IVP after a system failure to make sure that users can access WPS-PLUS software.

7 Respond to license registration queries.

```
* Does this product have an authorization key registered and loaded?
```

The installation procedure displays license information about your product and then asks if you have registered and loaded your Product Authorization Key (PAK).

If you have not registered and loaded your PAK, you must answer NO to this question. You have to register and load your PAK to complete the installation. If you have not done so, you should stop the installation, register and load your PAK, and then restart the installation from the beginning.

8 Check the software.

```
%WPLENGLISH-I-CHKGBL, Checking that required system parameters
are correct
%WPLENGLISH-I-UAFCHK, Checking process quotas (SYSUAF) for the
current process
```

VMSINSTAL now checks that the system parameters and process quotas are sufficient.

9 Determine type of installation for files.

```
No updatable version of WPS-PLUS for VMS found, performing a NEW INSTALLATION
* Do you wish to continue [YES]?

* Which disk will hold the WPS-PLUS for VMS files [SYS$SYSDEVICE:]:
```

If you are doing a *new* installation, the installation procedure asks you to provide the name of the disk on which you want to install the WPS-PLUS files. The installation procedure determines whether you are running a version of WPS-PLUS software that can be updated. WPS-PLUS for VMS, Version 3.1 and Version 4.0 can be updated. For information on installation types, see Section 1.4.

The installation procedure does the following, based upon the version of WPS-PLUS software you are running:

- If the procedure does not find a version of WPS-PLUS software that can be updated, the installation procedure asks you for confirmation to proceed as a *new* installation.

  If you answer YES, the *new* installation procedure continues.
  If you answer NO, the installation procedure ends.

- If WPS-PLUS for VMS, Version 3.1, is installed, the installation procedure asks you for confirmation to proceed as an *update* installation.

  If you answer YES, the *update* installation procedure continues.
  If you answer NO, the installation procedure ends.

- If WPS-PLUS for VMS, Version 4.0, is installed, the installation asks whether this is an *additional language* installation.

  If you answer YES, the *additional language* installation procedure continues.
  If you answer NO, the installation procedure asks you to confirm that this is an *update* to your WPS-PLUS for VMS, Version 4.0, system.

  Then:

  If you answer YES, WPS-PLUS for VMS, Version 4.0, is updated.
  If you answer NO, the installation procedure ends.

If you are doing a *new* installation, the procedure creates the WPS-PLUS directory and subdirectories. If you are installing on the system disk (SYS$SYSDEVICE), the following messages are displayed:

```
Creating a WPS-PLUS directory
Creating required WPS-PLUS subdirectories
%VMSINSTAL-I-SYSDIR, This product creates a system disk directory
SYS$SYSDEVICE:[WPSPLUS.SCP_ENGLISH].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.BLP_ENGLISH].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.IVP_ENGLISH].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.PRINT].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.LIB_SHARE].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.LIB_ENGLISH].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.DO_SHARE].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.DO_ENGLISH].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.DATA_SHARE].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.DATA_ENGLISH].
```

If you are installing on an alternate disk, these messages are displayed:

```
%VMSINSTAL-I-STSDIR, This product creates system disk directory
SYS$SYSROOT:[SYSTEST.WPLENGLISH].
Creating a WPS-PLUS directory
Creating required WPS-PLUS subdirectories.
```

10 Select installation of Encapsulated PostScript Graphics.

```
This kit contains a library of Encapsulated PostScript(R)
graphics and PostScript(R) Page Overlay samples.  Their
total size is approximately 3,000 blocks when they are
copied to the WPS-PLUS library directory.

* Do you want these graphics copied to the WPS-PLUS library directory [YES]?
```

The installation procedure displays the previous message and asks if the graphics provided with the WPS-PLUS kit should be installed. Press RETURN to copy the graphics to the WPS-PLUS library. Enter NO if you do not want to copy the files.

11 Install linguistic component files.

```
%WPLENGLISH-I-CHKLCI, Checking for existence of linguistic files
* Do you want the linguistic component files to reside on the SYSTEM disk [YES]?
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[LCI.LEXICONS].
```

Linguistic component files are packaged as part of WPS-PLUS software. The installation procedure checks for the existence of the LCI$LEXICONS directory, since other application software might have created this directory.

If an LCI$LEXICONS directory exists, the linguistic files are copied to that directory. If an LCI$LEXICONS directory does not exist, the installation procedure asks if you want the files installed on the system disk.

If you respond YES, the files are installed on the system disk. If you respond NO, you are prompted for a disk on which to install the files.

Note *Digital recommends that you install these files on the system disk.*

12 Read system information on multiple languages.

```
WPS-PLUS WPL$language V3.1 will need to be updated to
WPS-PLUS WPL$language V4.0
* Do you wish to continue with your primary installation [YES]?
```

If, during an update installation, the installation procedure determines that the system has more than one language installed, a message is displayed for each optional language system installed.

If your system runs more than a single language version of WPS-PLUS software, you must update all additional language systems after the primary WPS-PLUS system has been updated. All additional language versions of WPS-PLUS software must be the same version as the primary system.

The installation procedure asks if you want an additional language installation. If you answer YES, the installation installs additional language support. If you answer NO, the installation proceeds as a single language update.

13 Select a currency format.

```
Please type in the currency symbol you would like to use for example,"$"
If your terminal supports eight bit characters, you may use a COMPOSED
currency symbol.

What currency symbol do you want [$]?

Please select the number of the decimal separator that you would like to use.
For example "$1.00" or "$1-00" or "$1 00"

 1)      period (.)
 2)      dash or hyphen (-)
 3)      space  ( )

 4)      comma  (,)

* What decimal separator do you want [1]:

Please select the number of the thousand separator that you
would like to use.  For example "$10,000" or
"$10 000" or "$10.000"

 1) comma  (,)
 2) period (.)
 3) space  ( )
```

```
* What thousand separator do you want [1]:

%WPLENGLISH-I-CHOSEN1, You have chosen your currency format to look like this
%WPLENGLISH-I-CHOSEN2,  "$ 6,000,000,000.00 "
* Is this correct [YES]?
```

The installation procedure prompts you to select the currency symbol, the decimal separator, and the thousand separator for your installation. At the end of the process, the installation procedure displays a number in the format selected and asks if it is the correct format.

If you answer YES, the installation procedure accepts the selected currency settings and continues with the installation. If you answer NO, the installation procedure prompts you again for each of the currency settings.

14 Select the format of the default date and time.

To select the system default date and time format, answer the questions shown in the following display:

```
Please select the WPS-PLUS system default for date/time that you would like
to use.  A string of up to 20 characters is accepted when choosing this
format.  The characters 0 through 9 are interpreted as follows:

                    Set Date and Time Format

0 = Long month name  (January)
1 = Short month name (Jan)
2 = Month number     (1)
3 = Long day name    (Monday)
4 = Short day name   (Mon)
5 = Day number       (1)
6 = Long year        (1990)
7 = Short year       (90)
8 = Hours            (12)
9 = Minutes          (30)

   Example:  5-1-6 4 8:9   produces    30-Jul-1990 Wed 8:55

   NOTE: A maximum of 20 characters is allowed

* What date format do you want [5-1-6 4 8:9]:


You have chosen a date and time format of 01-Jan-1991 Tue 13:31

* Is this correct [YES]?

 NOTE:

 The date and time format chosen is the default for all system users.
 Individual users may customize this format for their own personal use.
 See the WPS-PLUS for VMS User's Reference for more information.
```

Note *Responses to the date and time format questions are processed automatically as follows:*

- *Multiple spaces are replaced by a single space.*
- *Leading and trailing spaces are removed.*
- *The exclamation point character (!) and all characters following it to the end of the line are ignored.*

You select the system default date and time format during installation. Any argument separator, such as a comma or a period, may be used and any portion of the date and time format may be excluded.

Table 2–2 shows examples of user input to the date and time format prompt and the resulting output format:

Table 2–2 Date and Time Format Samples

User Input	Resulting Output Format
0 5,6	July 30,1990
2/5/7	07/30/90
5.1.7 4	30.Jul.90 Mon
3, 0 5,6 8:9	Monday, July 30,1990 8:55

Users can modify the default date and time format for their environment. For information on date and time formats, see the *WPS-PLUS for VMS User's Reference*.

15 Read informational messages.

```
   All questions regarding the installation have now been asked.

%VMSINSTAL-I-MOVEFILES, files will now be moved to their target directories...
```

The installation procedure displays a number of informational messages that report on the progress of the installation. There are no further questions. If the installation procedure has been successful, VMSINSTAL moves the new or modified files to their target directories, updates help files, and updates DCL tables, if necessary. If you chose to have files purged, that work is done now.

16 Observe the Installation Verification Procedure (IVP).

If you chose to run the IVP, VMSINSTAL runs it now.

17 Complete the VMSINSTAL installation procedure.

```
Installation of WPLENGLISH V4.0 completed at 14:49

VMSINSTAL procedure done at 14:50
```

The previous messages indicate that the VMSINSTAL installation procedure is complete.

You now can log out of the privileged account:

```
$  LOGOUT
SYSTEM     logged out at 1-JAN-1991 14:54:00.01
```

VMSINSTAL deletes or changes entries in the process symbol tables during the installation. Therefore, to continue to use the system manager's account and these symbols, you should log out and log in again.

Note *You must perform the required post-installation procedures described in Chapter 3. WPS-PLUS software might fail unless you follow the post-installation instructions.*

2.2 Error Recovery

If errors occur during the installation or when the IVP is running, VMSINSTAL displays failure messages. If the installation fails, the installation procedure displays a message similar to the following:

```
%VMSINSTAL-E-INSFAIL, The installation of WPLENGLISH V4.0 has failed.
```

Errors can occur during the installation if any of the following conditions exist:

- The version of the operating system is incorrect.
- A required software version is incorrect.
- Quotas are insufficient.
- System parameter values are insufficient.
- Disk space is insufficient.
- The VMS Help library is in use.
- The product license has not been registered and loaded.

For descriptions of the error messages generated by these conditions, see the *VMS System Messages and Recovery Procedures Reference Manual: Part I* or the *VMS System Messages and Recovery Procedures Reference Manual: Part II*. If error messages indicate that any of these conditions exist, take the action described in the error message documentation; for example, you might need to change a system parameter or increase an authorized quota value. For information on installation requirements, see Chapter 1.

3

After Installing WPS-PLUS Software

After installing the WPS-PLUS software for the VMS operating system, you *must* perform the required post-installation procedures described in this chapter.

Note *To use the updated DCL tables, users who began a VMS terminal session before the WPS-PLUS installation took place must log out of their VMS terminal session and then log in again after the installation is complete.*

A new or update installation of WPS-PLUS software *requires* that you use the Keyboard Selection Utility to set user terminal characteristics. The Keyboard Selection Utility is new with WPS-PLUS for VMS, Version 4.0. For more information on the Keyboard Selection Utility, see the online release notes for WPS-PLUS for VMS, Version 4.0.

An update installation of WPS-PLUS software *requires* that you update any customized printer table files from previous versions of WPS-PLUS software. This is the only post-installation task for an update installation.

A new installation of WPS-PLUS software *requires* the following post-installation procedures:

- Editing the system startup file to include the WPS-PLUS startup procedure.
- Creating WPS-PLUS accounts.

The optional tasks for a new installation of WPS-PLUS software are as follows:

- Setting printer logical names and terminal characteristics.
- Installing WPS-PLUS software on a VAXcluster system.
- Rebooting the system.
- Changing the WPS-PLUS device.

- Adding system-wide common user rulers.

3.1 Modifying Printer Table Files

You now access the WPS-PLUS Printer Table Utility from the WPS-PLUS Main menu. The Version 4.0 Printer Table Utility allows you to create, delete, and rename tables in your own WPS-PLUS area.

Printer tables created using previous versions of WPS-PLUS for VMS must be converted to Version 4.0 format. For more information on converting and creating printer tables, see the *WPS-PLUS for VMS Printer Characteristics*.

3.2 Editing the System Startup File

You must edit the system startup file to provide for automatic startup of WPS-PLUS software when your system is rebooted.

Add the following command line, which starts WPS-PLUS software, as a single line to the system startup file, SYS$STARTUP:SYSTARTUP_V5.COM:

```
$  @SYS$STARTUP:WPLSTART.COM ddcu:[WPSPLUS.DATA_SHARE]
```

Substitute for *ddcu:* the device name of the disk on which you installed WPS-PLUS software.

If DECpage software is installed on your system, place the new command *before* the command that starts DECpage.

When you add this new command line to your system's SYSTARTUP_V5.COM file, make sure you place it *after* the following commands:

- The command that starts the queue manager and other queues
- The command that invokes FMS startup
- The command that invokes the network startup command procedure

3.3 Creating Accounts for WPS-PLUS Users

To create and maintain accounts for WPS-PLUS users, you must do the following tasks:

- Create and initialize the WPS-PLUS user environment.
- Check user account privileges.
- Check user account quotas.
- Create VMS captive user accounts, if you maintain such accounts.

The following sections describe the procedures for these tasks.

3.3.1 WPS-PLUS User Environment

If you are installing WPS-PLUS software on your system for the first time, before you set the terminal characteristics, you must create and initialize a WPS-PLUS directory structure for each user, in the user's SYS$LOGIN directory. Do the same for the SYSTEM account.

The command procedure WPSPLUS$SYSTEM:WPLNEWUSR.COM creates all required subdirectories and creates or copies all necessary files for each user directory structure you create.

To install new user accounts, enter the following command:

```
$  @WPSPLUS$SYSTEM:WPLNEWUSR
```

The WPLNEWUSR command procedure asks you for the user's main directory, and then creates the WPS-PLUS directory, other required subdirectories and required default .DAT files, and a user profile.

The following example shows the WPLNEWUSR.COM command procedure creating a WPS-PLUS subdirectory structure for user ROSS on device DUA0:

```
$ @WPSPLUS$SYSTEM:WPLNEWUSR

    Users SYS$LOGIN [SYS$COMMON:[SYSMGR]]: DUA0:[ROSS]
    Creating a WPSPLUS directory...
    Creating REQUIRED subdirectories...
    Creating REQUIRED default .DAT files....
    Creating REQUIRED user profile...
    Setup Completed for user: DUA0:[ROSS]
    Do you wish to enter another user (Y/N)? N
```

If every user on your system has a WPS-PLUS account, add the following command to the system SYS$MANAGER:SYLOGIN.COM file to initialize the WPS-PLUS user environment for all users:

```
$  @SYS$MANAGER:WPSPLUS_LOGIN
```

This command procedure does the following tasks:

- Defines the process logical name OAUSER to be the user's default file cabinet, for example, the directory [USER.WPSPLUS].
- Sets terminal characteristics for WPS-PLUS supported terminals.

If all users on your system do not use WPS-PLUS software, do not add the previous command to the system SYS$MANAGER:SYLOGIN.COM file, and instruct WPS-PLUS users to add the previous command to their individual LOGIN.COM files.

3.3.2 User Account Privileges

To use WPS-PLUS software, each account must have at least the TMPMBX privilege. To determine whether users have the privileges they require, use the VMS Authorize Utility. For more information, see the *VMS Authorize Utility Manual*.

3.3.3 User Account Quotas

Make sure that the appropriate user accounts have sufficient quotas to use WPS-PLUS software. Table 3–1 summarizes the required quotas.

Table 3–1 WPS-PLUS User Account Quotas

Account Quota	Value
ASTLM	100
BIOLM	50
BYTLM	36500
DIOLM	50
ENQLM	200
FILLM	150
PGFLQUO	20000
PRCLM	6
TQELM	50
WSDEF[1]	256
WSEXTENT	2048
WSQUO	512

[1]The values for WSEXTENT and WSQUO must be equal to or greater than the WSDEF value.

User account quotas are stored in the file SYSUAF.DAT. To verify and change user account quotas, use the Authorize Utility as follows:

1 Set your directory to SYS$SYSTEM and run the Authorize Utility:

```
$  SET DEFAULT SYS$SYSTEM
$  RUN AUTHORIZE
UAF>
```

2 At the AUTHORIZE prompt (UAF>), enter the SHOW command with an account name to check a particular account as in the following example:

```
UAF>  SHOW ROSS
```

3 At the AUTHORIZE prompt (UAF>), enter the MODIFY command in the following format to change a quota:

```
UAF>  MODIFY account-name /quota-name=nnnn
```

The following example changes the FILLM quota for the ROSS account and exits the utility:

```
UAF>  MODIFY ROSS /FILLM=150
UAF>  EXIT
```

When you exit the Authorize Utility, the VMS operating system displays messages indicating whether changes were made. Once you have finished making the changes, the users for whom you made changes must log out and log in again for the new quotas to take effect.

For more information on modifying account quotas, see the *VMS Authorize Utility Manual*.

3.3.4 Creating VMS Captive Accounts

Captive VMS accounts allow the user access to certain applications, such as WPS-PLUS software, and not to the DCL command language.

System managers use the following procedure to create captive accounts:

1 Use the User Authorization Facility (UAF) to create the account as CAPTIVE. For more information on using UAF, see the *Guide to VMS System Security*.

2 Add the following lines to the captive user's LOGIN.COM file:

```
$  ASSIGN/USER 'F$LOGICAL("SYS$OUTPUT")' SYS$INPUT
$  WPSPLUS
$  LOGOUT
```

3 Run WPLNEWUSR.COM to create the WPS-PLUS account if a WPS-PLUS directory structure does not exist for the captive user.

4 Use a command in the following format to copy OAINI_CAPTIVE.COM into the user's WPS-PLUS directory:

```
$  COPY WPSPLUS$SYSTEM:OAINI_CAPTIVE.COM ddcu:[USERNAME.WPSPLUS]OAINI.COM
```

Substitute for *ddcu:* the device name of the disk on which the user's account is installed in the previous example.

3.4 Setting Printer Logical Names and Terminal Characteristics

Use the PRINTER_SETUP.COM command procedure to set the terminal characteristics for printers on your system supported by WPS-PLUS software.

Do not use printer type names, such as LN03 or LA50, to define system logical names for WPS-PLUS printers. Defining system logical names with the same names as the printer types interferes with the WPS-PLUS printing capabilities. Using printer type names to define process logical names, queues, or symbols does not interfere with WPS-PLUS printing capabilities.

The PRINTER_SETUP.COM command procedure is optional and is designed for users who are new to the VMS operating system or who are installing WPS-PLUS software on a system where terminal queues have not been defined. The command procedure sets the following values for printer terminals and queues:

- Terminal:

  /EIGHT_BIT
  /FORM
  /HOSTSYNC
  /LOWER
  /NOBROADCAST
  /NOECHO
  /NOTAB
  /NOWRAP
  /PAGE=0
  /PASTHRU
  /PERMANENT
  /WIDTH=255

- Queue:

  /DEFAULT=NOFEED
  /NOLIBRARY

The PRINTER_SETUP.COM command procedure accepts the parameters shown in Table 3–2.

Table 3–2 Printer Setup Parameters

Parameter	Example
P1 = Physical connection	TTA0:
P2 = Baud rate of the terminal port	4800
P3 = Name of queue	SYS$PRINT
P4 = YES to delete existing queue (this parameter is optional)	YES

To delete an existing queue, enter YES as the P4 parameter. If you do not want to delete an existing queue, omit the P4 parameter.

Note *You can modify terminal characteristics on an existing queue. You do not need to delete the existing queue.*

To run the PRINTER_SETUP.COM command procedure, enter a command in the following format, entering the parameters from the Example column in Table 3–2 exactly as shown:

```
$  @WPSPLUS$SYSTEM:PRINTER_SETUP.COM P1 P2 P3
```

The following procedure shows how to set up your system to use an LQP02 printer. Repeat this procedure for each printer on your system supported by the WPS-PLUS software.

1. Edit SYS$STARTUP:SYSTARTUP_V5.COM.
2. Add the following line as shown to SYSTARTUP_V5.COM:

   ```
   $ @WPSPLUS$SYSTEM:PRINTER_SETUP.COM TTC3: 9600 LQP02
   ```

   - Add the previous command line *after* the line $@SYS$STARTUP:WPLSTART.COM and *after* SYS$PRINT has been defined and started in SYSTARTUP_V5.COM.
   - In this example, TTC3: is the terminal line number for this printer on this system. Make sure you use the correct terminal line number for each printer. If you have more than one printer of the same type, each must have a different terminal line number.
   - In this example, SYS$PRINT is the queue name for this printer. If you have more than one printer of the same type, each must have a different queue name.

3.5 Installing WPS-PLUS Software on a VAXcluster

You can install WPS-PLUS software on any of three VAXcluster configuration types:

- Computer Interconnect (CI)-only VAXclusters
- Local Area VAXclusters
- Mixed-interconnect VAXclusters

For definitions of the cluster types and information specific to installing WPS-PLUS software on each type, see Section 1.6.

There must be a single WPS-PLUS directory structure for all nodes in the VAXcluster system. You install WPS-PLUS software on any cluster node, but only on a disk that is shared among all nodes. You must, however, run the WPS-PLUS startup command procedure, SYS$STARTUP:WPLSTART.COM, on all nodes in the cluster on which you want to run WPS-PLUS software.

In accordance with the license agreement signed by your site, you must use the VMS License Management Facility (LMF) to register the WPS-PLUS license for each node on your VAXcluster system. The Product Authorization Key (PAK) that is shipped with WPS-PLUS software contains the license registration information.

To install WPS-PLUS software and to register the WPS-PLUS licenses on a VAXcluster system, use the following procedure:

1. Set the SYSGEN parameters to the required values on **each node** in the cluster on which you are going to run WPS-PLUS software. See Section 1.10 for instructions.
2. Install the new DCLTABLES, by entering the following commands:

   ```
   $  INSTALL
   INSTALL>  REPLACE SYS$SHARE:DCLTABLES
   INSTALL>  EXIT
   ```

3. On **each node** in the cluster, log in to the SYSTEM account, and load the LMF license using a command in the following format:

   ```
   $  LICENSE LOAD LMF_product_name
   ```

   Substitute the LMF product name for *LMF_product_name* in the previous example.

   You do not need to register the product on each node.
4. Log in to the SYSTEM account on the node on which you installed WPS-PLUS for VMS.
5. Edit SYS$STARTUP:SYSTARTUP_V5.COM.

6 Add the following line as one line to SYSTARTUP_V5.COM immediately after the @SYS$STARTUP:WPLSTART.COM command:

```
$ @WPSPLUS$SYSTEM:PRINTER_SETUP.COM TTC3: 9600 LQP02
```

You can use the PRINTER_SETUP.COM command procedure to define printers that are physically attached to specific nodes of a VAXcluster. For more information on this command procedure and on printer setup parameters, see Section 3.4.

7 Optionally, to create additional WPS-PLUS print formatter queues, use the template file WPSPLUS$SYSTEM:WPL$FORMATTER_START.COM.

Use the WPL$FORMATTER_START.COM template to do the following tasks:

- Create execution queues on specific nodes of the cluster.
- Create and start a cluster-wide generic queue from which jobs are moved to active execution queues.
- Start execution queues on specific nodes of the cluster.

The template creates execution queues on nodes called NODE1, NODE2, and NODE3, and a cluster-wide generic queue with the queues on NODE1, NODE2, and NODE3 as the target queues.

The template then starts the execution queues on nodes NODE1 and NODE2, and on the cluster-wide generic queue. The execution queue on NODE3 is available to be started if neither the NODE1 nor NODE2 execution queue is available.

To create node-specific formatter queues, place comments before these lines in the the SINGLE_CPU section and place a command and comment character ($!) before the second line in the SINGLE_CPU section.

To add your own node names in place of NODE1, NODE2, and NODE3, remove the EXIT line located before the template.

To delete the WPL$FORMATTER server queue after modifying WPL$FORMATTER_START.COM, enter the following commands:

```
$ STOP/QUEUE/NEXT WPL$FORMATTER
$ DELETE/QUEUE    WPL$FORMATTER
```

8 Run the following startup command procedure on each node in the cluster from which you want to run WPS-PLUS software:

```
$  @SYS$STARTUP:WPLSTART.COM  ddcu:[WPSPLUS.DATA_SHARE]
```

Substitute for *ddcu:* the device name of the disk on which you installed WPS-PLUS software in the previous command.

3.6 Rebooting the System

You can reboot your system after you have installed WPS-PLUS software, edited the system startup, and reset the system parameters (if necessary). A system reboot does the following tasks:

- Verifies that WPS-PLUS software is ready for use.
- Ensures that the edits to the system startup command file are executed.
- Establishes new parameter settings.

3.7 Changing the WPS-PLUS Device

If you move WPS-PLUS software to another disk, or if the logical name for the disk on which WPS-PLUS software was installed originally has changed, make sure all entries in the WPLCONFIG.DAT file are correct. To check the entries, use the following procedure:

1. Copy your [WPSPLUS.DATA_SHARE]WPLCONFIG.DAT file to another directory for safekeeping.
2. Run WPS-PLUS software from a privileged account.
3. At the Word and Document Processing menu, enter the following:

   ```
   WPLCONFIG
   ```

4. On the System Configuration Information form, press FIND (or GOLD L) at the Language field.

   WPS-PLUS software lists all records that must be checked.

5. For each record on the list do the following tasks:

   a. Select the record.

   b. Use the C (Change) command to change records within this form to conform to the correct device and directory specification.

   c. Exit WPS-PLUS software.

6. If the WPS-PLUS library files are not in the location specified in WPLCONFIG.DAT, move those files to that location.
7. Invoke the WPLSTART.COM startup command procedure in the following format to redefine the logicals to the new WPS-PLUS for VMS area:

   ```
   $ @SYS$STARTUP:WPLSTART.COM ddcu:[WPSPLUS.DATA_SHARE]
   ```

   Substituting for *ddcu:* the device name of the new disk in the previous example.

3.8 Adding System-wide Common User Rulers

Individual ruler sets are defined for each WPS-PLUS user in the file RULERS.DAT in the user's WPS-PLUS directory.

There also are system ruler sets shared by all users in the file *ddcu*:[WPSPLUS.DATA_*language*]RULERS_SHARED.DAT.

To add rulers to the system ruler set in the file RULERS_SHARED.DAT, use the following procedure:

1. Set the default directory to a WPS-PLUS user directory.
2. Copy the system ruler set file RULERS_SHARED.DAT in the directory *ddcu*:[WPSPLUS.DATA_*language*] to the RULERS.DAT file in the user directory.
3. Enter the WPS-PLUS environment, modify the RULERS.DAT file, and exit.
4. Rename the file RULERS.DAT in the user directory to be the file RULERS_SHARED.DAT in the same directory.
5. Copy the file RULERS_SHARED.DAT in the user directory to the directory *ddcu*:[WPSPLUS.DATA_*language*].

For more information on storing rulers, see the *WPS-PLUS for VMS User's Reference*.

4

Installation Verification Procedure

The Installation Verification Procedure (IVP) for WPS-PLUS software for the VMS operating system, which verifies that WPS-PLUS software was installed successfully and functions correctly, has two phases.

Phase 1, which is invoked automatically after the installation, verifies that critical files have been placed in the correct directories.

The following message is displayed when Phase 1 of the IVP is successful:

```
PHASE 1 for WPS-PLUS for VMS, Version 4.0 IVP completed successfully!!
Tuesday  1-JAN-1991 12:25:44.26
NODE: XXX011::
```

If Phase 1 of the IVP fails, the following message is displayed:

```
PHASE 1 for WPS-PLUS for VMS, Version 4.0  IVP Encountered Error
Tuesday 1-JAN-1991 09:51:03.06
NODE: XXX011::
```

A list of the missing critical files follows the preceding message, and Phase 2 of the IVP is not run. If Phase 1 of the IVP fails, you should reinstall the product.

Phase 2, which requires a WPS-PLUS supported terminal, performs the following tasks:

- Creates the temporary WPS-PLUS user account SYS$SPECIFIC:[SYSTEST.WPLENGLISH_IVP].
- Creates and edits WPS-PLUS documents.
- Creates a WPS-PLUS document using the Two-Dimensional Editor.
- Creates a User-Defined Process document.
- Copies a WPS-PLUS document to a VMS file and a VMS file to a WPS-PLUS document.

- Tests paragraph numbering.
- Tests the List Processing options.
- Tests the File Cabinet options.

If WPS-PLUS software does not support the user's terminal, the following message is displayed:

```
In order to perform PHASE 2 of the IVP you must be logged in on a WPS-PLUS
supported terminal.  You may continue PHASE 2 at any time on a WPS-PLUS
supported terminal by invoking the IVP as follows:

$ @WPSPLUS$SYSTEM:WPLIVP
```

4.1 Running the Installation Verification Procedure

You must complete all the required post-installation procedures in Chapter 3 before running the IVP.

To run the IVP separately from the installation procedure, invoke either of the following command procedures from the system manager's account using a WPS-PLUS supported terminal:

- To run both Phase 1 and Phase 2 of the IVP, enter the following command substituting the installed language name for *language*:

  ```
  $  @WPSPLUS$SYSTEM::WPLIVP language
  ```

  If the installed language name is omitted, the IVP asks the following:

  ```
  Do you wish to test your default ENGLISH WPS-PLUS system [YES]?:
  ```

  If you respond YES, the default ENGLISH system is tested. If you respond NO, the IVP asks which language you wish to test:

  ```
  Which WPS-PLUS optional language system do you want to test?:
  ```

- To run only Phase 2 of the IVP, enter the following command substituting the installed language name for *language*:

  ```
  $  @DEV$:[WPSPLUS.LIB_language]WPLIVP
  ```

  Phase 2 of the IVP takes approximately 15 minutes and the following messages are displayed:

  ```
  Creating a WPS-PLUS directory...
  Creating REQUIRED subdirectories...
  Creating REQUIRED default .DAT files...
  Creating REQUIRED user profile...
  Setup completed for user: SYS$SYSROOT:[SYSTEST]
  ```

The following message is displayed when Phase 2 of the IVP is successful:

```
PHASE 2 for WPS-PLUS for VMS, Version 4.0, IVP completed successfully!!
Tuesday 1-JAN-1991 12:26:30.35
NODE: XXX011::
```

The following message is displayed if Phase 2 of the IVP fails:

```
PHASE 2 for WPS-PLUS for VMS, Version 4.0, IVP Encountered Error
check your WPS-PLUS for VMS Installation Guide
Tuesday 1-JAN-1991 12:26:30.35
NODE: XXX011::
```

A

Sample Installation

This appendix contains a sample installation of WPS-PLUS software for the VMS operating system. This sample was run on a system with no previous version of WPS-PLUS software installed, and was installed on the system disk.

The sample installation assumes that DECnet has been shut down, that no users are logged in to your system, and that you have specified OPTIONS N to print the release notes.

```
$ @sys$update:vmsinstal wplenglish040 MUA0:[SAVESETS] options n

        VAX/VMS Software Product Installation Procedure V5.3

It is 1-JAN-1991 at 11:09.

Enter a question mark (?) at any time for help.

* Are you satisfied with the backup of your system disk [YES]?

Please mount the first volume of the set on MTA0:.

* Are you ready? YES

%MOUNT-I-MOUNTED, WPLENG mounted on _MTA0:

The following products will be processed:

  WPLENGLISH V4.0

        Beginning installation of WPLENGLISH V4.0 at 11:10

%VMSINSTAL-I-RESTORE, Restoring product saveset A ...

    Release notes included with this kit are always copied to SYS$HELP.

    Additional Release Notes Options:

 1.  Display release notes
 2.  Print release notes
 3.  Both 1 and 2
 4.  None of the above
```

```
* Select option [2]:
* Queue name [SYS$PRINT]:
Job WPLENGLISH040 (queue SYS$PRINT, entry 4) started on SYS$PRINT

* Do you want to continue the installation [N] ?: Yes
%VMSINSTAL-I-RELMOVED , The product's release notes have been successfully
moved to SYS$HELP.
* Do you want to purge files replaced by this installation [YES]?
* Do you want to run the IVP after the installation [YES]?

        Product:      WPSPLUS
        Producer:     DEC
        Version:      4.0
        Release Date: 1-JUL-1990

* Does this product have an authorization key registered and loaded? yes
%WPLENGLISH-I-CHKGBL, Checking that required system parameters are correct
%WPLENGLISH-I-UAFCHK, Checking process quotas (SYSUAF) for the current process.

No updatable version of WPS-PLUS software found, performing a NEW INSTALLATION
* Do you wish to continue [YES]?
* Which disk will hold the WPS-PLUS for VMS files [SYS$SYSDEVICE:]:

          This kit contains a library of Encapsulated PostScript(R)
          graphics and PostScript(R) Page Overlay samples.  Their
          total size is approximately 3,000 blocks when they are
          copied to the WPS-PLUS library directory.

* Do you want these graphics copied to the WPS-PLUS library directory [YES]?

Creating required WPS-PLUS for VMS subdirectories
Creating a WPS-PLUS for VMS directory
Creating required WPS-PLUS for VMS subdirectories
%VMSINSTAL-I-SYSDIR, This product creates system disk directory

SYS$SYSDEVICE:[WPSPLUS.SCP_ENGLISH].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.BLP_ENGLISH].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.IVP_ENGLISH].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.PRINT].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.LIB_SHARE].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.LIB_ENGLISH].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.DO_SHARE].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.DO_ENGLISH].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.DATA_SHARE].
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.DATA_ENGLISH].
```

```
%WPLENGLISH-I-CHKLCI, Checking for existence of linguistic files
* Do you want the linguistics component files to reside on the SYSTEM disk [YES]?
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[LCI.LEXICONS].

Please type in the currency symbol you would like to use for example, "$"
If your terminal supports eight bit characters, you may use a COMPOSED
currency symbol.

What currency symbol do you want [$]?

Please select the number of the decimal separator that you would like to use.
For example "$1.00" or "$1-00" or "$1 00"

 1)      period (.)
 2)      dash or hyphen (-)
 3)      space  ( )
 4)      comma  (,)

* What decimal separator do you want [1]:

Please select the number of the thousand separator that you
would like to use.  For example "$10,000" or
"$10 000" or "$10.000"

 1) comma  (,)
 2) period (.)
 3) space  ( )

* What thousand separator do you want [1]:

%WPLENGLISH-I-CHOSEN1, You have chosen your currency format to look like this
%WPLENGLISH-I-CHOSEN2,  "$ 6,000,000,000.00 "
* Is this correct [YES]?

Please select the WPS-PLUS system default for date/time that you would like
to use.  A string of up to 20 characters is accepted when choosing this
format.  The characters 0 through  9 are interpreted as follows:

                     Set Date and Time Format

0 = Long month name  (January)
1 = Short month name (Jan)
2 = Month number     (1)
3 = Long day name    (Monday)
4 = Short day name   (Mon)
5 = Day number       (1)
6 = Long year        (1990)
7 = Short year       (90)
8 = Hours            (12)
9 = Minutes          (30)

   Example:  5-1-6 4 8:9   produces    01-Jul-1990 Sun 8:55

   NOTE: A maximum of 20 characters is allowed

* What date format do you want [5-1-6 4 8:9]:

You have chosen a date and time format of 01-Jan-1991 Tue 11:15

* Is this correct [YES]?
```

```
 NOTE:

 The date and time format chosen is the default for all system users.
 Individual users may customize this format for their own personal use.
 See the WPS-PLUS for VMS User's Reference for more information.

   All questions regarding the installation have now been asked.

   The installation will now continue.

%VMSINSTAL-I-RESTORE, Restoring product saveset B ...
%VMSINSTAL-I-RESTORE, Restoring product saveset C ...
%WPLENGLISH-I-WPLINK, Starting link of the Message File image.
%VMSINSTAL-I-RESTORE, Restoring product saveset D ...
%VMSINSTAL-I-RESTORE, Restoring product saveset E ...

During the installation, a file called WPLSTART.COM has been
added to SYS$STARTUP:.

The site dependent SYS$MANAGER:SYSTARTUP_V5.COM
should have the following line added:

    $  @SYS$STARTUP:WPLSTART.COM  dev$:[WPSPLUS.DATA_SHARE]
           where DEV$ is the device you installed WPS-PLUS software on.

It must be invoked before users can successfully use WPS-PLUS for VMS.

%VMSINSTAL-I-RESTORE, Restoring product saveset F ...
Preparing for transfer of WPS-PLUS for VMS - Boilerplate Files
Preparing for transfer of WPS-PLUS for VMS - Data Files
Preparing for transfer of WPS-PLUS for VMS - Do Script Files
Preparing for transfer of WPS-PLUS for VMS - IVP Files
Preparing for transfer of WPS-PLUS for VMS - Library Files
Preparing for transfer of WPS-PLUS for VMS - Print Files

%VMSINSTAL-I-RESTORE, Restoring product saveset G ...
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
SYS$SYSDEVICE:[WPSPLUS.CBI_ENGLISH].

Preparing for transfer of WPS-PLUS for VMS - CBI files

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+------------------------------------------------------------------------+

 NOTE:

 In order to complete this installation please read Chapter 3 in
        Version 4.0 of the WPS-PLUS for VMS Installation Guide for further
        instructions.

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...

Compiling the WPS-PLUS TXL Library

        Starting WPS-PLUS software
        Installing WPS-PLUS images

DISK$VMSRL5:<SYS0.SYSCOMMON.SYSMSG>XPORTMSG.EXE
%INSTALL-W-NOPREV, no previous entry exists - new entry created for
DISK$VMSRL5:<WPSPLUS.LIB_SHARE>WPL$MAIN.EXE
DISK$VAXVMSRL052:<SYS0.SYSCOMMON.SYSLIB>LCI$SHARE.EXE
%INSTALL-W-NOPREV, no previous entry exists - new entry created for
DISK$VAXVMSRL052:<SYS0.SYSCOMMON.SYSLIB>LCI$ETHMCO.EXE
%INSTALL-W-NOPREV, no previous entry exists - new entry created for
DISK$VAXVMSRL052:<SYS0.SYSCOMMON.SYSLIB>LCI$SCHMCO.EXE
%INSTALL-W-NOPREV, no previous entry exists - new entry created for
DISK$VAXVMSRL052:<SYS0.SYSCOMMON.SYSLIB>LCI$UAHMCO.EXE
%INSTALL-W-NOPREV, no previous entry exists - new entry created for
DISK$VAXVMSRL052:<SYS0.SYSCOMMON.SYSLIB>LCI$UDHMCO.EXE

        Defining language independant logical names
        Defining ENGLISH language logical names
%INSTALL-W-NOPREV, no previous entry exists - new entry created for
DISK$VAXVMSRL052:<SYS0.SYSCOMMON.SYSLIB>WPL$LLVENGLISH.EXE
        Running WPS-PLUS software to install the ENGLISH FORM LIBRARIES
        SYSTEM finished using WPS-PLUS software at 1-JAN-1991 11:55
```

```
%INSTALL-W-NOPREV, no previous entry exists - new entry created for
DISK$VMSRL5:<WPSPLUS.LIB_SHARE>WPSCNV.EXE
%INSTALL-W-NOPREV, no previous entry exists - new entry created for
DISK$VMSRL5:<WPSPLUS.LIB_SHARE>WPSEDIT.EXE
%INSTALL-W-NOPREV, no previous entry exists - new entry created for
DISK$VAXVMSRL052:<WPSPLUS.LIB_SHARE>WPSFORMAT.EXE
%INSTALL-W-NOPREV, no previous entry exists - new entry created for
DISK$VAXVMSRL052:<WPSPLUS.LIB_SHARE>WPSLP.EXE
%INSTALL-W-NOPREV, no previous entry exists - new entry created for
DISK$VAXVMSRL052:<WPSPLUS.LIB_SHARE>WPSSORT.EXE

        WPS-PLUS startup procedure completed

Executing IVP's for:  WPS-PLUS for VMS, Version 4.0

 Beginning first phase of tests...

%SETOA-S The WPS-PLUS system will now be used

 Beginning second phase of tests  ..

Creating a WPSPLUS directory...
Creating REQUIRED subdirectories...
Creating REQUIRED default .DAT files....
Creating REQUIRED user profile...

Setup Completed for user: SYS$SPECIFIC:[SYSTEST]

Removing WPS-PLUS IVP directory files.
************************************************************

 PHASE 1 for WPS-PLUS for VMS, V4.0 IVP completed successfully!!
   Tuesday  1-JAN-1991 12:25:44.26
   node: XXX011::

************************************************************

****************************************************************
 PHASE 2 for WPS-PLUS for VMS, V4.0 IVP Completed Successfully!!
 Tuesday  1-JAN-1991 12:26:30.35
 node: XXX011::
****************************************************************

 Installation of WPLENGLISH V4.0 completed at 12:31

 VMSINSTAL procedure done at 12:32
```

B

Files and Logical Names Installed on Your System

The files in Table B–1 are transferred to your system when you install WPS-PLUS software for the VMS operating system. The files are organized by directory; where *ddcu:* represents a generic disk name.

Section B.1 lists the additional language files and directories installed when you are installing a language other than English.

Section B.2 lists the files replaced by language-specific versions of the files.

Section B.3 lists logical names and logical name tables that are entered into the system logical name tables when WPS-PLUS software is installed.

Table B–1 WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu:*(WPSPLUS.BLP_ENGLISH)	
FCDIR.BLP	File Cabinet directory boilerplate
FCDIRHDR.BLP	File Cabinet directory header boilerplate
FOLPRINT.BLP	List folders print boilerplate
FOLPRINTXP.BLP	List folders multiple print boilerplate

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu:*(WPSPLUS.BLP_ENGLISH)	
FORMAT.BLP	Format boilerplate
LIST_STATUS.BLP	Read status line boilerplate
WPCOPYCAB.BLP	Boilerplate
Total of 7 files	
Directory *ddcu:*(WPSPLUS.CBI_ENGLISH)	
CBIFCDIS.SCP	Training (CBI) scripts
CBIFCEMP.SCP	Training (CBI) scripts
CBIFCEXI.SCP	Training (CBI) scripts
CBIFCINT.SCP	Training (CBI) scripts
CBIFCRFC.SCP	Training (CBI) scripts
CBIFCRFD.SCP	Training (CBI) scripts
CBIFCUII.SCP	Training (CBI) scripts
CBIFCXFD.SCP	Training (CBI) scripts
CBIFIND.SCP	Training (CBI) scripts
CBILPEXI.SCP	Training (CBI) scripts
CBILPFOR.SCP	Training (CBI) scripts
CBILPLIS.SCP	Training (CBI) scripts
CBILPOVR.SCP	Training (CBI) scripts
CBILPRUN.SCP	Training (CBI) scripts
CBILPRUNEXI.SCP	Training (CBI) scripts
CBIMCECM.SCP	Training (CBI) scripts
CBIMCEEC.SCP	Training (CBI) scripts
CBIMCEOVR.SCP	Training (CBI) scripts
CBIMCEWM.SCP	Training (CBI) scripts
CBIMDOP.SCP	Training (CBI) scripts
CBIMDOVR.SCP	Training (CBI) scripts
CBIMDSQ.SCP	Training (CBI) scripts
CBINFAEC.SCP	Training (CBI) scripts

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu:*(WPSPLUS.CBI_ENGLISH)	
CBINFCCC.SCP	Training (CBI) scripts
CBINFOVR.SCP	Training (CBI) scripts
CBINFPC.SCP	Training (CBI) scripts
CBINFPS.SCP	Training (CBI) scripts
CBIPCPMOV.SCP	Training (CBI) scripts
CBIPCPREP.SCP	Training (CBI) scripts
CBIPCRARR.SCP	Training (CBI) scripts
CBIPCREAT.SCP	Training (CBI) scripts
CBIPDELET.SCP	Training (CBI) scripts
CBIPDLKEY.SCP	Training (CBI) scripts
CBIPDLLNG.SCP	Training (CBI) scripts
CBIPDLRUB.SCP	Training (CBI) scripts
CBIPEDIT.SCP	Training (CBI) scripts
CBIPEXEDLE.SCP	Training (CBI) scripts
CBIPEXEDRU.SCP	Training (CBI) scripts
CBIPEXFRM.SCP	Training (CBI) scripts
CBIPEXI.SCP	Training (CBI) scripts
CBIPEXIND.SCP	Training (CBI) scripts
CBIPFIRST.SCP	Training (CBI) scripts
CBIPHIEXI.SCP	Training (CBI) scripts
CBIPHIINT.SCP	Training (CBI) scripts
CBIPHIREM.SCP	Training (CBI) scripts
CBIPLED.SCP	Training (CBI) scripts
CBIPLGALE.SCP	Training (CBI) scripts
CBIPLGINT.SCP	Training (CBI) scripts
CBIPLGSPL.SCP	Training (CBI) scripts
CBIPLGTHE.SCP	Training (CBI) scripts
CBIPLIST.SCP	Training (CBI) scripts
CBIPMSEL.SCP	Training (CBI) scripts

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu:*(WPSPLUS.CBI_ENGLISH)	
CBIPPAGIN.SCP	Training (CBI) scripts
CBIPPRIN.SCP	Training (CBI) scripts
CBIPRLDIS.SCP	Training (CBI) scripts
CBIPRLSAV.SCP	Training (CBI) scripts
CBIPSEARC.SCP	Training (CBI) scripts
CBIPSELEC.SCP	Training (CBI) scripts
CBIPTDCRE.SCP	Training (CBI) scripts
CBIPTDDEL.SCP	Training (CBI) scripts
CBIPTDENT.SCP	Training (CBI) scripts
CBIPTDINT.SCP	Training (CBI) scripts
CBIPTDMCP.SCP	Training (CBI) scripts
CBIPTDMOV.SCP	Training (CBI) scripts
CBIPTDPEN.SCP	Training (CBI) scripts
CBIQSAMP.TXT	Training (CBI) scripts
CBIRUNR.SCP	Training (CBI) scripts
CBIRURR.SCP	Training (CBI) scripts
CBITCS.SCP	Training (CBI) scripts
CBITESTEXI.SCP	Training (CBI) scripts
CBITEXT1.WPL	Training (CBI) scripts
CBITEXT2.WPL	Training (CBI) scripts
CBITEXT3.WPL	Training (CBI) scripts
CBITEXT4.WPL	Training (CBI) scripts
CBITEXT5.WPL	Training (CBI) scripts
CBIUDPADI.SCP	Training (CBI) scripts
CBIUDPCRE.SCP	Training (CBI) scripts
CBIUDPEXDEL.SCP	Training (CBI) scripts
CBIUDPEXI.SCP	Training (CBI) scripts
CBIUDPINT.SCP	Training (CBI) scripts
CBIUDPSRL.SCP	Training (CBI) scripts

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu:*(WPSPLUS.CBI_ENGLISH)	
CBIUDPUSE.SCP	Training (CBI) scripts
CBIWGSEXI.SCP	Training (CBI) scripts
CBIWGSFIF.DAT	Training (CBI) scripts
CBIWGSFIF.SCP	Training (CBI) scripts
CBIWGSGHE.SCP	Training (CBI) scripts
CBIWGSINM.SCP	Training (CBI) scripts
CBIWGSINT.SCP	Training (CBI) scripts
CBIWGSOVR.SCP	Training (CBI) scripts
CBIWGSUME.SCP	Training (CBI) scripts
Total of 90 files	
Directory *ddcu:*(WPSPLUS.DATA_ENGLISH)	
DATASPELL.DAT	List of valid spell languages and dialects
PRINTERS.DAT	List of valid printers
WPSFNATT.DAT	List of valid footnote attributes
RULERS_SHARED.DAT	List of shared system rulers
SYSDICT.DAT	List of dictionaries
WPSFNPOS.DAT	List of valid footnote positions
WPSFNSEPS.DAT	List of valid footnote separators
WPSSHEET.DAT	List of sheet feeders
Total of 8 files	
Directory *ddcu:*(WPSPLUS.DATA_SHARE)	
CORPORATE.LGP	Corporate shared dictionary
FORMAT.DAT	Formatting data file
GROUP.LGP	Group shared dictionary
OA$DAF_E.DAT	File Cabinet list for users
OA$KEYBOARDS.DAT	Keyboard Selection Utility

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu:*(WPSPLUS.DATA_SHARE)	
PENDING.DAT	File Cabinet maintenance file
SYSTEM.PST	System permanent symbol table
WPLCONFIG.DAT	System WPS-PLUS configuration data file
Total of 8 files	
Directory *ddcu:*(WPSPLUS.DO_SHARE)	
APNUM_STYLES.SCP	Paragraph numbering script
APNUM_FOLDER.SCP	Paragraph numbering script
CHECK_PTYTYPE.SCP	Check printer type
COPYDOC.SCP	Copy WPS-PLUS documents to ALL-IN-1
CONVERT_LANG.SCP	Language conversion
DOCCREATE.SCP	Document create
DOCSELECT.SCP	Document select
DXRD.SCP	Receive from DECmate
DXRE.SCP	Receive from DDIF
DXRV.SCP	Receive from VMS
DXRX.SCP	Receive from DX index
DXSD.SCP	Send to DECmate
DXSE.SCP	Send to DDIF
DXSV.SCP	Send to VMS
DXSX.SCP	Send to DX index
DXXM.SCP	Go to DECdx menu
EDITOR_MENU.SCP	Editor script
FCDELFDR.SCP	File Cabinet delete folder
FCDIR.SCP	File Cabinet directory
FCEW.SCP	File Cabinet empty wastebasket
FILECAB_REORG.SCP	File Cabinet reorganization
FOLCOUNT.SCP	List folders count
FOLDER.SCP	Prompt user for new folders

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu*:(WPSPLUS.DO_SHARE)	
FOLPRINT.SCP	List folders print
FOLPRINTXP.SCP	List folders multiple print
GRAMCHECK.SCP	VAX Grammar Checker
LNGSPL_CLOSE_DICT.SCP	Close dictionary
LNGSPL_FREE_SLOT.SCP	Check for fewer than 10 open dictionaries
LNGSPL_LIST_OPEN.SCP	List open dictionary
LNGSPL_OPEN_DICT.SCP	Open dictionary
LNGSPL_POST_LISTOPEN.SCP	Post-processing after list open dictionaries
LNGSPL_PRE_LISTOPEN.SCP	Pre-processing before list open dictionaries
LNGSPL_WPL_SEARCH.SCP	Cannot open dictionary which is open
LNGSPLCONVERT.SCP	Spell initialization
LNGSPLCRE.SCP	Create new dictionary
LNGSPLDEL.SCP	Delete dictionary
LNGSPLDOW.SCP	Arrow functions on dictionary selection form
LNGSPLINI.SCP	Initializing script
LNGSPLIST.SCP	Select dictionary
LNGSPLMNU.SCP	Display current dictionary
LNGSPLSC2.SCP	Run Spell Check
LNGSPLSEL.SCP	Selection dictionary
MAIN.SCP	Main Menu script
MASTER.SCP	Spell script
METER.SCP	Metering script
NEXTLIST.SCP	Selects next entry in selection list
OACOMTXL.SCP	Compile TXL file
OLDSTYLE_POST.SCP	Paragraph numbering script
OLDSTYLE_PRE.SCP	Paragraph numbering script
PARANUM.SCP	Paragraph numbering
PTU_MAIN.SCP	PTU script

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu*:(WPSPLUS.DO_SHARE)	
PTU_PRINT.SCP	PTU script
SHOW_LIPS_LOGFILE.SCP	List processing logfile
WPANUM_POST.SCP	paragraph numbering script
WPCOPY.SCP	Copy to new File Cabinet
WPDELETE.SCP	Deletes document
WPDOUDP.SCP	Calls UDP document
WPDUMPUDP.SCP	Clear UDP script mechanism
WPEDADDMEN.SCP	Editor attributes control script
WPEDADDMEN_POST.SCP	Editor attributes control script
WPEXTREF.SCP	External reference
WPEDIT.SCP	Editor control script
WPFOLDER.SCP	Performs folder lookup
WPL_DATE_TIME.SCP	Date and time selection
WPLIST.SCP	List output to your screen
WPMDMP.SCP	Multiple print and delete
WPNEXTL.SCP	Find next document in list
WPNEXTNUM.SCP	Find next document with same number
WPPAFOLDER.SCP	Allow folder names used as parameters
WPPARG_PRE.SCP	printer script
WPPBGFORMAT.SCP	Background format
WPPFILE.SCP	Print to file
WPPGBFORMAT.SCP	Background format
WPPOUTDOC.SCP	Print to document
WPPPORT.SCP	Print to port
WPPRINT.SCP	Printer control
WPPRTEXIT.SCP	Print exit handler
WPPSYSTEM.SCP	Print to generic queues
WPPTERMIN.SCP	Print to terminal
WPPTYPEIT.SCP	Print to type

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu:*(WPSPLUS.DO_SHARE)	
WPSDECGET.SCP	GOLD GET document from DECmate
WPSDECWRT.SCP	GOLD WRITE document from DECmate
WPSLPS.SCP	Performs list and sort functions
WPSTSTSPC.SCP	Performs list test specification
Total of 83 files	
Directory *ddcu:*(WPSPLUS.IVP_ENGLISH)	
IVP.DOC	Sample document
IVPRESET.COM	Resets directory
WPLIVP.LOG	Sample output
UDP.DOC	Sample User-Defined Process document
WPLIVP.SCP	IVP script
WPLIVPUSR.COM	Creates IVP account
Total of 6 files	
Directory *ddcu:*(WPSPLUS.LIB_ENGLISH)	
A1TXL.TXL	Compiled TXL library
CHARACTER.WPL	WPS-PLUS character set
CTRL_TXT.WPL	Online documenation reference
EPS.WPL	Online documenation reference
INVOKABLE.WPL	Online documenation reference
KEYBOARD.WPL	Online documenation reference
KEYWORDS.WPL	Online documenation reference
LIBEE.WPL	Equation examples
LIBKLT.WPL	Keyboard layout for the LK201
LIBNTC.WPL	Name of technical characters
LIBRARY.UDP	Combined library files for File Cabinet file
LIBSTL.WPL	Summary of technical library
LIBTCL.WPL	Technical character library

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu:*(WPSPLUS.LIB_ENGLISH)	
MEMRES.FLB	Memory resident form library
MEMRES.FLC	Compiled memory resident form library
OACBIFORMS.FLB	CBI form library
OAFORM.FLB	Form library
OAFORM.FLC	Compiled form library
OAHELP.HLB	Online Help library
PECOHELP.PLB	TDE Help library
PRINTER_SETUP.COM	Set terminal characteristics for all printers
RELNOTES.SCP	Release notes script file
RENDITION.WPL	Print rendition sample
SETOA.COM	Switch primary/secondary system
TDELIB.WPL	Sample TDE file
V4_DEMO.WPL	Online documenation reference
WPKEYBOARD.COM	Terminal keyboard setup command file
WPL-INDEX.WPL	Online documenation reference
WPSMESS.MSG	Message file for Callable WPS-PLUS software
WPSPLUS_LOGIN _ENGLISH_CHOICES.DAT	Keyboard Utility
WPSPLUS_LOGIN _ENGLISH_LANGUAGES.DAT	Keyboard Utility
WPSPLUS_LOGIN _ENGLISH_LAYOUTS.DAT	Keyboard Utility
WPSPLUS_LOGIN _ENGLISH_MENU.DAT	Keyboard Utility
WPUDPSUP.COM	User-Defined Process file
WPSSYS.MSG	System message file
XAL_ASCII.COM	Online documenation reference
XAL_CALC.COM	Online documenation reference
XAL_DTR.COM	Online documenation reference

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Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu:*(WPSPLUS.LIB_ENGLISH)	
XAL_GRAPH.COM	Online documenation reference
XAL_GUIDE.COM	Online documenation reference
XAL_MAIL.COM	Online documenation reference
XAL_MAIL1.COM	Online documenation reference
XAL_MAIL2.COM	Online documenation reference
Total of 43 files	

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Optional PostScript Files in Directory *ddcu:*(WPSPLUS.LIB_ENGLISH)	
AMERICAN.EPS	PostScript file
BUSINESS.EPS	PostScript file
COMPANYN.EPS	PostScript file
CRATEWIT.EPS	PostScript file
DOLLARS0.EPS	PostScript file
DOLLARSI.EPS	PostScript file
EAGLEDES.EPS	PostScript file
FORECAST.EPS	PostScript file
GEORGEWA.EPS	PostScript file
LOGOA.PS	PostScript file
LOGOB.PS	PostScript file
LOGOC.PS	PostScript file
LOGOD.PS	PostScript file
LOGOE.PS	PostScript file
LOGOF.PS	PostScript file
LOGOG.PS	PostScript file
LOGOH.PS	PostScript file
LOGOI.PS	PostScript file
LOGOJ.PS	PostScript file
LOGOK.PS	PostScript file
LOGOL.PS	PostScript file

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Optional PostScript Files in Directory *ddcu:*(WPSPLUS.LIB_ENGLISH)	
LOGOM.PS	PostScript file
LOGON.PS	PostScript file
LOGOO.PS	PostScript file
LOGOP.PS	PostScript file
LOGOQ.PS	PostScript file
LOGOR.PS	PostScript file
LOGOW.PS	PostScript file
LOGOT.PS	PostScript file

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Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Optional PostScript Files in Directory *ddcu:*(WPSPLUS.LIB_ENGLISH)	
LOGOU.PS	PostScript file
LOGOV.PS	PostScript file
LOGOW.PS	PostScript file
LOGOX.PS	PostScript file
LOGOY.PS	PostScript file
LOGOZ.PS	PostScript file
LOVESCRI.EPS	PostScript file
MAILBOXW.EPS	PostScript file
MEMOPENC.EPS	PostScript file
MERRYCHR.EPS	PostScript file
MOTHERS.EPS	PostScript file
ONEBILL.EPS	PostScript file
PROMOTIO.EPS	PostScript file
QUESTION.EPS	PostScript file
SAAMAILER.EPS	PostScript file
SALE.EPS	PostScript file
TAXILLUS.EPS	PostScript file
VOTESTAR.EPS	PostScript file
WELCOME.EPS	PostScript file
WETHEPEO.EPS	PostScript file
YOURINVI.EPS	PostScript file
Total of 51 files	
Directory *ddcu:*(WPSPLUS.LIB_SHARE)	
BGLIPS.COM	Background list processing
BGSORT.COM	Background sort processing
CTRL_LIB.WPL	Online documentation reference
CNVPRTUIC.COM	UIC check for File Cabinet reorganization
DATSPELL.FDL	prepopulated spell data file

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Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu:*(WPSPLUS.LIB_SHARE)	
DEC_ASC.CVA	Conversion table
DEC_ASC.CVC	Conversion table
DEC_WPL.CVA	Conversion table
DEC_WPL.CVC	Conversion table
DOCDB.FDL	File definition language, user's File Cabinet
DXDDIFCHECK.COM	Checks option file
ENCODE.COM	Document transfer
FF.LIS	Form feed for printing
KOTERMTAB.COM	Define logicals for terminal tables
LNGSPLFMT.COM	Format Dictionary
LOADTCS.TXT	Load Technical Character Set test file
MASTER.COM	Spell
MASTER.FDL	Spell
OAINI.COM	Initialization procedure
OAINI_CAPTIVE.COM	Initialization procedure for captive accounts
PDAF.FDL	File Cabinet maintenance
RULERS.FDL	Prepopulated rulers data file
SCPTABLE.TXT	Sort table
SHOW_LIPS_LOGFILE.COM	Background list processing
SPLFORMAT.CLD	Spell
SPLFORMAT.EXE	Spell
TDE_ABBR.WPL	Online documentation reference
TRACESET.SCP	Trace mode
VERIFY_DECPAGE.COM	Verify DECpage software is installed
VERIFY_DECPRINT.COM	Verify DECprint software is installed
WPDDXSEND.COM	Interfaces to run DECdx
WPDECDX.COM	Interfaces to run DECdx
WPL$FORMATTER_START.COM	Starts background print formatter queues

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu:*(WPSPLUS.LIB_SHARE)	
WPL$MAIN.EXE	WPS-PLUS executable image
WPLIVP.COM	Installation Verification Procedure
WPLNEWUSR.COM	Creates new user account
WPSCNV.EXE	Callable file converter
WPSDEF.WPL	User's profile
WPSEDIT.EXE	Callable editor
WPSFORMAT.EXE	Invokable print
WPSLP.EXE	Invokable list processing
WPSMAIL.COM	VMS MAIL interface
WPSPLUS_LOGIN.EXE	Keyboard Utility
WPSPLUS.CLD	WPS-PLUS command language definition
WPSSORT.EXE	Invokable sort processing
Total of 46 files	

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Optional PostScript Files in Directory *ddcu:*(WPSPLUS.LIB_SHARE)	
APPLE.EPS	PostScript file
ATOM.EPS	PostScript file
BALLCAP.EPS	PostScript file
BALLOONS.EPS	PostScript file
BASEBALL.EPS	PostScript file
BEAR.EPS	PostScript file
BELLS.EPS	PostScript file
BENJAMIN.EPS	PostScript file
BIGTRUCK.EPS	PostScript file
BLUERIBB.EPS	PostScript file
BUTTERFL.EPS	PostScript file
CAKE.EPS	PostScript file
CANDLE.EPS	PostScript file
CAP_TASS.EPS	PostScript file

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Optional PostScript Files in Directory *ddcu:*(WPSPLUS.LIB_SHARE)	
CARTOONM.EPS	PostScript file
CARTOONS.EPS	PostScript file
CASSETTE.EPS	PostScript file
CHRISTMA.EPS	PostScript file
CITYSKYL.EPS	PostScript file
COWBOYHA.EPS	PostScript file
DARTBOAR.EPS	PostScript file
EAGLE.EPS	PostScript file
EASTERBU.EPS	PostScript file
FEATHERP.EPS	PostScript file
FLOWER.EPS	PostScript file
FOOTBALL.EPS	PostScript file
GAVEL.EPS	PostScript file
GIFT.EPS	PostScript file
GLASSES.EPS	PostScript file

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Optional PostScript Files in Directory *ddcu:*(WPSPLUS.LIB_SHARE)	
GROUGH-D.EPS	PostScript file
HAMBURGE.EPS	PostScript file
HANDSTOG.EPS	PostScript file
HEART_LA.EPS	PostScript file
HOURGLAS.EPS	PostScript file
HOUSE.EPS	PostScript file
ICECREAM.EPS	PostScript file
INTLBED.EPS	PostScript file
INTLGAS.EPS	PostScript file
INTLMAN.EPS	PostScript file
INTLPHO.EPS	PostScript file
INTLPIC.EPS	PostScript file
INTLPLA.EPS	PostScript file
INTLRED.EPS	PostScript file

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Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Optional PostScript Files in Directory *ddcu:*(WPSPLUS.LIB_SHARE)	
INTLRES.EPS	PostScript file
INTLSWI.EPS	PostScript file
INTLWOM.EPS	PostScript file
JET.EPS	PostScript file
KEY.EPS	PostScript file
KEYPAD.EPS	PostScript file
LIGHTBUL.EPS	PostScript file
LIGHTNIN.EPS	PostScript file
LOBSTER.EPS	PostScript file
LOCK.EPS	PostScript file
MICROPHO.EPS	PostScript file
MUSICB.EPS	PostScript file
NOSMOKIN.EPS	PostScript file
OLYMPICC.EPS	PostScript file
OPENBOOK.EPS	PostScript file

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Optional PostScript Files in Directory *ddcu:*(WPSPLUS.LIB_SHARE)	
OWL.EPS	PostScript file
PARTYFAV.EPS	PostScript file
PENCIL.EPS	PostScript file
PENGUIN.EPS	PostScript file
POCKETWA.EPS	PostScript file
PUMPKIN.EPS	PostScript file
RAIN.EPS	PostScript file
ROSES.EPS	PostScript file
SCISSORS.EPS	PostScript file
SCRIPTLI.EPS	PostScript file
SCROLL.EPS	PostScript file
SHELLDES.EPS	PostScript file
STAROFDA.EPS	PostScript file
STAROUTL.EPS	PostScript file
SUNBURST.EPS	PostScript file
SUNGLASS.EPS	PostScript file
TELEPHON.EPS	PostScript file
TOYTRAIN.EPS	PostScript file
TROPHY.EPS	PostScript file
WHALE.EPS	PostScript file
WORLD.EPS	PostScript file
WREATH.EPS	PostScript file
WREATHLE.EPS	PostScript file
Total of 81 files	
Directory *ddcu*::(WPSPLUS.PRINT)	
AGBOPS.PRC	Print Utility
AGBPS.PRC	Print Utility
AGDOPS.PRC	Print Utility

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu*::(WPSPLUS.PRINT)	
AGDPS.PRC	Print Utility
COUBOPS.PRC	Print Utility
COUBPS.PRC	Print Utility
COUOPS.PRC	Print Utility
COUPS.PRC	Print Utility
CSB080S0.PRC	Print Utility
CSB100S0.PRC	Print Utility
CSB100S3.PRC	Print Utility
CSB101S0.PRC	Print Utility
DEC10FIX.PRC	Print Utility
DEC12FIX.PRC	Print Utility
DEC5FIX.PRC	Print Utility
DEC6FIX.PRC	Print Utility
DEC8FIX.PRC	Print Utility
DEC9FIX.PRC	Print Utility
DECAAA.PRC	Print Utility
DECFAF.PRC	Print Utility
DECFFF.PRC	Print Utility
DECFMF.PRC	Print Utility
DECLAA.PRC	Print Utility
DECLASER.PRA	Print Utility
DECLMA.PRC	Print Utility
DECLMF.PRC	Print Utility
DECLMT.PRC	Print Utility
ENG140GG.PRC	Print Utility
ENG180GG.PRC	Print Utility
EPSON.PRA	Print Utility
EPSON.PRC	Print Utility
HEL080S0.PRC	Print Utility

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu*::(WPSPLUS.PRINT)	
HEL100S0.PRC	Print Utility
HEL100S3.PRC	Print Utility
HEL101S0.PRC	Print Utility
HEL120S0.PRC	Print Utility
HEL120S3.PRC	Print Utility
HEL121S0.PRC	Print Utility
HEL140S3.PRC	Print Utility
HELBOPS.PRC	Print Utility
HELBPS.PRC	Print Utility
HELOPS.PRC	Print Utility
HELPS.PRC	Print Utility
HPLLFF.PRC	Print Utility
IBM.PRA	Print Utility
IBM.PRC	Print Utility
LA100.PRA	Print Utility
LA210.PRA	Print Utility
LA324.PRA	Print Utility
LA50.PRA	Print Utility
LA75.PRA	Print Utility
LASERJET.PRA	Print Utility
LGBOPS.PRC	Print Utility
LGBPS.PRC	Print Utility
LGDOPS.PRC	Print Utility
LGDPS.PRC	Print Utility
LJ250.PRA	Print Utility
LN03.PRA	Print Utility
LP11.PRA	Print Utility
LQP02.PRA	Print Utility
LQP03.PRA	Print Utility

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu*::(WPSPLUS.PRINT)	
LQP45.PRA	Print Utility
NCSBIPS.PRC	Print Utility
NCSBPS.PRC	Print Utility
NCSIPS.PRC	Print Utility
NCSRPS.PRC	Print Utility
NEC.PRA	Print Utility
NEC.PRC	Print Utility
OKIDATA.PRA	Print Utility
OKIDATA.PRC	Print Utility
PS.PRA	Print Utility
QUME.PRA	Print Utility
SOU080AG.PRC	Print Utility
SOU080MG.PRC	Print Utility
SOU081AG.PRC	Print Utility
SOU100AG.PRC	Print Utility
SOU100PG.PRC	Print Utility
SOU101AG.PRC	Print Utility
SOU120AG.PRC	Print Utility
SOU120PG.PRC	Print Utility
SOU121AG.PRC	Print Utility
SOU140AG.PRC	Print Utility
SOUDIPS.PRC	Print Utility
SOUDPS.PRC	Print Utility
SOULIPS.PRC	Print Utility
SOULPS.PRC	Print Utility
SYMPS.PRC	Print Utility
TIM080GG.PRC	Print Utility
TIM080PG.PRC	Print Utility
TIM121GG.PRC	Print Utility

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu*::(WPSPLUS.PRINT)	
TIM100GG.PRC	Print Utility
TIM100PG.PRC	Print Utility
TIM101GG.PRC	Print Utility
TIM120GG.PRC	Print Utility
TIM120PG.PRC	Print Utility
TIM140GG.PRC	Print Utility
TIM180GG.PRC	Print Utility
TIM180PG.PRC	Print Utility
TIM240GG.PRC	Print Utility
TIMRBIPS.PRC	Print Utility
TIMRBPS.PRC	Print Utility
TIMRIPS.PRC	Print Utility
TIMRPS.PRC	Print Utility
TMS080S0.PRC	Print Utility
TMS100S0.PRC	Print Utility
TMS100S3.PRC	Print Utility
TMS101S0.PRC	Print Utility
TMS120S0.PRC	Print Utility
TMS120S3.PRC	Print Utility
TMS121S0.PRC	Print Utility
TMS140S3.PRC	Print Utility
TRM080GG.PRC	Print Utility
TRM080PG.PRC	Print Utility
TRM081GG.PRC	Print Utility
TRM100GG.PRC	Print Utility
TRM100PG.PRC	Print Utility
TRM100S0.PRC	Print Utility
TRM101GG.PRC	Print Utility
TRM120GG.PRC	Print Utility

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Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu*::(WPSPLUS.PRINT)	
TRM120PG.PRC	Print Utility
TRM121GG.PRC	Print Utility
TRM140GG.PRC	Print Utility
TRM140S3.PRC	Print Utility
TRM180GG.PRC	Print Utility
TRM180PG.PRC	Print Utility
TRM240GG.PRC	Print Utility
VT100.PRA	Print Utility
VT200.PRA	Print Utility
VT300.PRA	Print Utility
VT400.PRA	Print Utility
WPEXTREF.SCP	Print Utility
WPSPLUS.PS	Print Utility
Total of 132 files	
Directory *ddcu*:(WPSPLUS.SCP_ENGLISH)	
GENERAL_CURDOC_ERROR.SCP	General index error
GENERAL_JS_ERROR.SCP	General index error
Total of 2 files	
Directory SYS$SYSROOT:(SYSEXE)	
WPL$FORMATTER.EXE	WPS-PLUS print symbiont
Total of 1 file	
Directory SYS$SYSROOT:(SYSLIB)	
WPL$LLVENGLISH.EXE	WPS-PLUS message file
LCI$ETHMCO.EXE	Linguistics callable interface
LCI$SCHMCO.EXE	Linguistics callable interface

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory SYS$SYSROOT:(SYSLIB)	
LCI$SHARE.EXE	Linguistics callable interface
LCI$UAHMCO.EXE	Linguistics callable interface
LCI$UDHMCO.EXE	Linguistics callable interface
Total of 6 files	
Directory SYS$SYSROOT:(SYSTEST)	
WPLENGLISH$IVP.COM	Installation Verification Procedure
Total of 1 file	
Directory SYS$SYSROOT:(SYS$STARTUP)	
WPLSTART.COM	WPS-PLUS startup file
Total of 1 file	
Directory SYS$SYSROOT:(SYSHLP)	
WPLENGLISH040.RELEASE_NOTES	Release notes
Total of 1 file	
Directory SYS$SYSROOT:(SYSMGR)	
WPSPLUS_LOGIN.COM	WPS-PLUS login procedure
Total of 1 file	

(continued on next page)

Table B–1 (Cont.) WPS-PLUS English Language Version Files

File Specification	Function
Directory *ddcu*:(LCI.LEXICONS)	
CFSCHMCO.TXT	Linguistics component files
COM_THES.DIS	Linguistics component files
IAMFX528.RAM	Linguistics component files
IAMFX528.DSK	Linguistics component files
IENFP128.DSK	Linguistic component files
IENFP128.RAM	Linguistic component files
LOOKUP.TXT	Linguistics component files
UA2005L.DSK	Linguistics component files
UA2005L.RAM	Linguistics component files
Total of 9 files	

B.1 Directories for Non-English Language Versions

If you install a version in a language other than English, the non-language-specific subdirectories listed in Table B–1 are created as in the English version. In addition, the following language-specific subdirectories are created:

- *ddcu:*[WPSPLUS.BLP_*language*]
- *ddcu:*[WPSPLUS.CBI_*language*]
- *ddcu:*[WPSPLUS.DO_*language*]
- *ddcu:*[WPSPLUS.IVP_*language*]
- *ddcu:*[WPSPLUS.LIB_*language*]
- *ddcu:*[WPSPLUS.SCP_*language*]
- *ddcu:*SYS$SYSROOT:[SYSLIB]
- *ddcu:*SYS$SYSROOT:[SYSTEST]WPL*language*$IVP.COM
- *ddcu:*SYS$SYSROOT:[SYSHLP]

The following language-specific files are added to the current directories:

- WPL$LLV*language*.EXE added to SYS$SYSROOT:[SYSLIB]
- WPL*language*040.RELEASE_NOTES added to SYS$SYSROOT:[SYSHLP]
- PostScript files with a .EPS file type added to *ddcu:*[WPSPLUS.LIB_*language*]

B.2 Lexicons for Non-English Languages

When you install a non-English language version of WPS-PLUS software, the files in Table B–2, rather than the files in Table B–1, are transferred to the directory *ddcu:*[LCI.LEXICONS].

Note *Electronic Thesaurus and Usage Alert are not available for non-English language systems.*

Table B–2 Lexicon Files

Language	Lexicon File
British English (ISE)	IBSFX528.DSK
	IBSFX528.RAM
	IENFP128.DSK
	IENFP128.RAM
Danish	IDNFX220.DSK
	IDNFX220.RAM
	IDNFY220.DSK
	IDNFY220.RAM
Dutch	IDUFX529.DSK
	IDUFX529.RAM
	IDUFS718.DSK
	IDUFS718.RAM
Finnish	IFNFX220.DSK
	IFNFX220.RAM
	IFNFY220.DSK
	IFNFY220.RAM
French	IFRFX629.DSK
	IFRFX629.RAM
	IFRFS119.DSK
	IFRFS119.RAM
German (High)	IGRFX629.DSK
	IGRFX629.RAM
	IGRFS219.DSK
	IGRFS219.RAM

(continued on next page)

Table B–2 (Cont.) Lexicon Files

Language	Lexicon File
German (Swiss)	IGSFX629.DSK
	IGSFX629.RAM
	IGSFS229.DSK
	IGSFS229.RAM
Italian	IITFX529.DSK
	IITFX529.RAM
	IITSF210.DSK
	IITSF210.RAM
Norwegian	INBFX220.DSK
	INBFX220.RAM
	INBFY220.DSK
	INBFY220.RAM
Portuguese (Brazilian)	IPBFX220.DSK
	IPBFX220.RAM
	IPBFY220.DSK
	IPBFY220.DSK
Portuguese (Iberian)	IPIFX220.DSK
	IPIFX220.RAM
	IPIFY220.DSK
	IPIFY220.RAM
Spanish	ISPFX519.DSK
	ISPFX519.RAM
	ISPFS110.DSK
	ISPFS110.RAM
Swedish	ISWFX529.RAM
	ISWFX529.DSK
	ISWFS618.RAM
	ISWFS618.DSK

B.3 Logical Names and Logical Name Tables

The following WPS-PLUS logical names and logical name tables are entered into the system logical name tables when WPS-PLUS software is installed:

- System logical names:

  LCI$LEXICONS
  WPL$DEFAULT_LANGUAGE
  WPL$IMAGE
  WPL$SHR
  WPSPLUS$SYSTEM

- System logical name tables:

  WPL$*language*_TABLE
  WPL$SHARE_TABLE

The previous names are stored in the startup file, WPLSTART.COM. They are entered into the system logical name table when the system is rebooted.

C

Error Messages

This appendix lists system error messages that the WPS-PLUS software for the VMS operating system can display.

Note *If an error message is displayed while you are installing WPS-PLUS software, check the UAF parameters. Many installation errors occur because these parameters are not set high enough. See Table 1–2 for the required settings.*

Error Message:

%DCL-I-IGNQUAL, qualifiers appearing before this item were ignored

Problem This error occurs when the WPS symbol is defined at login with language and keyboard qualifiers that conflict with the qualifier selected by the user.

Solution This is only an informational error and can be ignored.

Use the WPS command to run the WPS-PLUS for VMS software.

Use the WPSPLUS command when running the invokable WPS-PLUS components or the WPS-PLUS Keyboard Utility.

Error Message:

%DCL-W-ACTIMAGE, error activating image WPL$IMAGE -CLI-E-IMGNAME, image file ('file spec) -RMS-F-DEV, error in device name or inappropriate device type for operation

Problem This error occurs if any of these three conditions exists:

- WPS-PLUS software has not been started.
- The area in which WPS-PLUS software was installed has been moved.
- The device on which WPS-PLUS software is installed has changed.

For more information, see Section 3.7.

Solution Invoke WPLSTART.COM, or check the WPLCONFIG form to make sure all entries are correct, using the following procedure:

1. At the Word and Document Processing menu, enter:

   ```
   WPLCONFIG
   ```

2. On the System Configuration Information form, press FIND (or GOLD L) at the Language field.

   WPS-PLUS software lists all records that must be checked.

3. For each record on the list:

   a. Select the record.

   b. Use I (Inquire) to verify the device and directory.

   c. Use C (Change) to make corrections, changing each record within this form to conform to the correct device and directory specification.

Error Message:

%DCL-W-INVQUAL, unrecognized qualifier - check validity, spelling...

Problem This error occurs if either of the following conditions exists and indicates that the DCL tables must be updated:

- The DCL tables have not been replaced on a node in the cluster other than on the node the WPS-PLUS software was installed.
- The VMS terminal session has not been restarted since the WPS-PLUS installation took place.

Solution To update the DCL tables, one or both of the following tasks must be performed:

- Users who began a VMS terminal session before the WPS-PLUS installation took place must log out of their VMS terminal session and then log in again after the installation is complete to use the updated DCL tables.
- The DCL tables must be updated on all nodes in the cluster by entering the following commands:

  ```
  $ INSTALL
  INSTALL> REPLACE SYS$SHARE:DCLTABLES
  INSTALL> EXIT
  ```

For more information on using and modifying DCL tables, see Section 3.5.

Error Message: Error opening profile document

Problem The profile document for WPS-PLUS software is called WPSDEF.WPL and resides in each user's WPS-PLUS directory. If this file is missing, the following error message is displayed:

```
Error opening WPSDEF.WPL
Press any key to continue
```

Solution Copy a new WPSDEF.WPL from the WPSPLUS$SYSTEM directory to the user's WPS-PLUS directory, [*username*.WPSPLUS].

Error Message:

%LICENSE-E-NOAUTH, DEC WPSPLUS us is not authorized on this node
-LICENSE-F-NOLICENSE, no license is active for this software product
-LICENSE-I-SYSMGR, please see your system manager

Problem The WPS-PLUS license is not loaded on your system.

Solution Load the license using a command in the following form:

```
$ License load WPSPLUS
```

Error Message: Obsolete version of OAFORM.FLB

Problem If your OAFORM.FLB and OAFORM.FLC do not match, the following error message is displayed:

```
Obsolete version of ddcu:[WPSPLUS.LIB]OAFORM.FLG; - Continuing
```

Solution Re-compile your WPSPLUS$SYSTEM:OAFORM.FLB to create WPSPLUS$SYSTEM:OAFORM.FLC, using the following procedure:

Note *You must have PRMGBL and SYSGBL privileges to install OAFORM.*

1. From the Word and Document Processing menu, enter the following commands:

   ```
   <OA$FBT_REMOVE_LIBRARY OA$LIB:OAFORM
   <OA$FBT_WRITE_LIBRARY OA$LIB:OAFORM
   <OA$FBT_INSTALL_LIBRARY OA$LIB:OAFORM
   ```

2. Exit the WPS-PLUS software.

Error Message: Error in opening the file cabinet file "DOCDB"

Several problems can cause this error message:

- Problem If WPSPLUS$SYSTEM:WPLNEWUSR was not set up for the account, or if the profile file (WPSDEF.WPL) or the data files (DAF.DAT, DOCDB.DAT) are missing.

Solution Create a File Cabinet, by entering the following command:

```
$  @WPSPLUS$SYSTEM:WPLNEWUSR
```

- Problem If any user-writeable files are protected.

  Solution Check the file protections. All files within your [user.WPSPLUS] directory must have protection set at least to (OWNER:RWE).

- Problem If SYS$MANAGER:WPSPLUS_LOGIN.COM has not been invoked and the logical OAUSER is not defined.

  Solution See Section 3.3 for instructions on adding this command to your SYS$MANAGER:SYLOGIN.COM file, or to each user's LOGIN.COM file.

Error Message: %OA-E-NOREENTER

Problem If another process is running WPS-PLUS software from the same account and using the same File Cabinet, the following error message is displayed:

```
%OA-E-NOREENTER, You are already using WPS-PLUS software, you
cannot restart it
```

Solution Log out of the WPS-PLUS software from your original process.

Error Message: Reference to the proper DAF.DAT file could not be established.

Problem You have deleted or refiled your current dictionary from a menu other than the Dictionary Maintenance menu.

Solution Use the SEL option on the Dictionary Maintenance menu to select a dictionary.

Error Message: SEND_JBC operation error.

Problem The WPL$FORMATTER QUEUE does not exist, or the SYSTEM QUEUE MANAGER is not running.

Solution Reinvoke SYS$STARTUP:WPLSTART.COM to recreate the WPS-PLUS print queues.

Error Message: %SYSTEM-F-NOPRIV, no privilege for attempted operation

Problem The A1TXL.TXL does not have the correct protection setting.

Solution Set protection for that file to W:RE, as follows:

```
$  Set protection=(W:RE) WPSPLUS$SYSTEM:A1TXL.TXL
```

Error Message: You have too many large documents open

Problem The user has too many large documents open in an editor at the same time.

Solution

Exit from one or more of the unneeded documents and try again to edit the new document.

If this error occurs regularly, increase the value of KOA$HEAP_SIZE to be greater than the default of 200,000 in the user's LOGIN.COM file as shown in the following example:

```
$  DEFINE KOA$HEAP_SIZE 300000
```

D

Diagnostic Tools

WPS-PLUS software for the VMS operating system provides the following tools to diagnose problems:

- GOLD (and GOLD)

  Turns verify mode on (left parenthesis) and off (right parenthesis). Verify mode displays DCL subcommands.

- CTRL N

  Displays the named data for the form you are using.

- CTRL V

  Displays characteristics of all fields of the form you are using.

- Trace Utility

  Sets or clears trace-mode flags that govern the areas and extent of tracing and the destinations of trace output. To use the Trace Utility, use the following procedure:

  1 Press GOLD keypad 7.

  2 Respond to the prompt by entering a command in the following format:

  ```
  Enter command:  OA$TRA_SET [OFF,][A1LOG,] flag [,...]
  ```

  OFF is optional; A1LOG means that the command includes A1 logging output (interleaved) in trace-log (only valid if LOG is on); flag can be any one of those trace-mode flags listed in Table D–1.

Table D–1 Trace-mode Flags

Flag	Description
FORM	Trace form-processing (OAFORM): opening, closing, and so on
FIELD	Trace-field processing (OAFLD)
FLOW	Trace form-library operations (OAFLO)
HELP	Trace help (OAHELP)
PUT[1]	Trace filed-put (OAFMS, OAFLD)
ALL	Trace all of the above (OFF, ALL also permitted)
STUMP	Dump form stack
TERM	Output trace to terminal
LOG[2]	Output trace to logging device/file (preset to TRUE)

[1]PUT is fairly low level: normally you do not need detail.

[2]LOG is preset enabled. You must turn it off if you do not want logging to a file. The trace-log file is A1TRACE.LOG. Each time you set LOG to on, a new A1TRACE.LOG is created.

The following is a sample Trace Utility command line:

```
Enter command:  OA$TRA_SET OFF,A1LOG,LOG,FORM,FIELD,FLOW,HELP
```

To produce a trace line from the keyboard (A1 command input), enter a command in the following format:

```
Enter command:  OA$TRA_OUT [text]
```

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