The Xpdf Viewer

The VSI OpenVMS Documentation CD contains platform-specific Xpdf viewers that are based on Xpdf version 3.04. Review the following prerequisites and release notes before you install the viewer.

Pre-installation Requirements

To use the VSI OpenVMS Xpdf viewer, you must have the following items:

- Any version of the VSI OpenVMS Integrity or VSI OpenVMS Alpha operating system
- HPE TCP/IP Services for OpenVMS V5.7-13ECO5 or later, or MultiNet TCP/IP.
- An ODS-5 system disk.
- Free disk space of 66000 blocks on VSI OpenVMS Alpha and 122000 blocks on VSI OpenVMS Integrity
- VSI I64 or Alpha OpenVMS DECWindows Motif v1.6 or later.
- DECW$DISPLAY defined

Licensing

No license is required to use the Xpdf viewers.

Install the Xpdf V3.0-4B Viewer for OpenVMS

Follow these steps to install and start the Xpdf viewer.

1. Insert the VSI OpenVMS Documentation CD into a drive on your OpenVMS system and mount it.

2. Locate the Xpdf viewer installation kit on your VSI OpenVMS Integrity or Alpha system. The kits are shipped as self-extracting executables (for example, .EXE_AXPVMS) and as .ZIP archive file types. The ZIP archives should be inflated on an OpenVMS system; inflating them on a non-OpenVMS system could result in PCSI installation kits with incorrect file attributes.

   Each installation kit is accompanied by a manifest (digital signature file) that is used by PCSI during product installation to verify that the contents of the kit have not been modified or corrupted.

   a. The **[ALPHA.XPDF-VIEWER]** directory contains the Xpdf viewer for VSI OpenVMS Alpha. When unzipped, the PCSI kit name will be VSI-AXPVMS-XPDF-V0300-4B-1.PCSI$COMPRESSED and the manifest kit name will be VSI-AXPVMS-XPDF-V0300-4B-1.PCSI$COMPRESSED_VNC.

   b. The **[IA64.XPDF-VIEWER]** directory contains the Xpdf viewer for VSI OpenVMS Integrity. When unzipped, the PCSI kit name will be VSI-I64VMS-XPDF-V0300-4B-1.PCSI$COMPRESSED and the manifest kit name will be VSI-I64VMS-XPDF-V0300-4B-1.PCSI$COMPRESSED_VNC.

   After the PCSI installation kits have been restored from the ZIP archives, they can be installed using the PRODUCT INSTALL command as in this example:

```
$ product install xpdf /source=sys$disk:[]
```

3. The Xpdf viewer does not have any configuration options. However, at the end of the installation procedure, you are notified that some post-installation tasks are required:

```
The following product has been installed:
    VSI AXPVMS XPDF V3.0-4B                Layered Product

VSI AXPVMS XPDF V3.0-4B: Xpdf for OpenVMS is based on Xpdf Version 3.04

    Post-installation tasks are required.

    To define logical names required by Xpdf at system boot time, add the
    following lines to SYS$MANAGER:SYSTARTUP_VMS.COM:

        $ file := SYS$STARTUP:XPDF$STARTUP.COM
        $ if f$search("''file'") .nes. "" then @'file'

    To deassign logical names used by Xpdf at system shutdown time, add
    the following lines to SYS$MANAGER:SYSHUTDWN.COM:

        $ file := SYS$STARTUP:XPDF$SHUTDOWN.COM
        $ if f$search("''file'") .nes. "" then @'file'

$
$ @sys$startup:xpdf$startup.com                ! System wide startup
$ @xpdf$root:[bin]xpdf$define_commands.com  ! Per process symbols
$
```

The Xpdf product includes these command procedures:

- SYS$COMMON:[SYS$STARTUP]XPDF$SHUTDOWN.COM;1
- SYS$COMMON:[SYS$STARTUP]XPDF$STARTUP.COM;1
- SYS$COMMON:[SYSMGR]XPDF$DEFINE_LOGICALS.COM;1
- SYS$COMMON:[xpdf.bin]xpdf$define_commands.com;1

The Xpdf startup and shutdown procedures are run from the system startup & shutdown procedures, respectively. They require privileges to run and will define some SYSTEM logical names. For instance, the startup procedure runs XPDF$DEFINE_LOGICALS.COM.

Each process needs to run the xpdf$define_commands.com procedure, which sets up DCL global symbols of options. This can be done interactively, or system-wide in SYS$MANAGER:SYLOGIN.COM or in a user-specific SYS$LOGIN:LOGIN.COM

Set Up a Display to a Local Terminal or Remote Device

In order to display documents, you must first define a display device. Use one of these methods to establish a display device:

- On an XWindows-capable graphics terminal directly attached to the locally connected OpenVMS system, the logical name DECW$DISPLAY may already be defined. Typically this will point to WSA1:. To verify that a display device has been defined, enter the following command:

```
$ SHOW DEVICE WSA

Device                 Device          Error
 Name                  Status          Count
WSA0:                  Offline             0
WSA1:                  Online              0
```

If no WSAn: devices are defined as display devices, enter the following command to define one:

```
$ DEFINE DECW$DISPLAY WSAn:
```

- To display on a remote device, you must connect to the remote system using a command such as SET HOST, TELNET, or SSH and then define DECW$DISPLAY. One way to do this is to use a command in this format:

```
$ SET DISPLAY/CREATE/SERVER=0/SCREEN=0/TRANS=TCPIP/NODE=AAA.BBB.CCC.DDD
```

- Check that the DECW$DISPLAY has been properly defined:

```
$ SHOW DISPLAY

Device:    WSA2:  [user]
Node:      192.168.1.103
Transport: TCPIP
Server:    0
Screen:    0
```

- Once you have set up DECW$DISPLAY, start the XPDF viewer.

- One may also simply use the `-display AAA.BBB.CCC.DDD:0.0` command-line argument as well.

```
$ xpdf -display AAA.BBB.CCC.DDD:0.0 my-file.pdf
```

Start the Xpdf Viewer for OpenVMS

Start the Xpdf viewer in either of two ways:

- To access the main menu of files available for viewing, type the following command at the DCL $ prompt:

```
$ xpdf
```

When you type XPDF at the DCL $ prompt, the system will use the existing display device (WSAn:) to which the logical name DECW$DISPLAY is pointing.

When the main Xpdf windows opens, click in the window. You will see a main menu that allows you to browse for and select the file(s) you wish to view. You can close the current file or open a new one without exiting the program. While viewing a document you can scroll through it, select text, and perform similar operations.

- To access a file directly, specify the name of a PDF file on the command line:

```
$ xpdf my-file.pdf
```

The Xpdf viewer offers a number of command options. At the command line, type xpdf –h to review the options.

Symbol	Command Option Definition	Action
$ pdfdetach	:== $xpdf$root:[bin]pdfdetach.exe	Lists or extracts embedded files in a PDF
$ pdffonts	:== $xpdf$root:[bin]pdffonts.exe	Lists the fonts used in the PDF
$ pdfimages	:== $xpdf$root:[bin]pdfimages.exe	Saves images from the PDF
$ pdfinfo	:== $xpdf$root:[bin]pdfinfo.exe	Provides change document information
$ pdftohtml	:== $xpdf$root:[bin]pdftohtml.exe	Converts PDF to HTML
$ pdftopgn	:== $xpdf$root:[bin]pdftopng.exe	Converts PDF to a PNG image
$ pdftoppm	:== $xpdf$root:[bin]pdftoppm.exe	Converts PDF to Portable Pixmap format
$ pdftops	:== $xpdf$root:[bin]pdftops.exe	Converts PDF to PostScript format
$ pdftotext	:== $xpdf$root:[bin]pdftotext.exe	Converts PDF to text
$ xpdf	:== $xpdf$root:[bin]xpdf.exe	Enables the Xpdf viewer

Note: You may experience better performance with the Xpdf viewer by moving the document files from the CD and onto an LD container.

Release Notes

1. VSI OpenVMS Xpdf Viewer PCSI Filename Differs from Its ZIP Filename

The VSI OpenVMS I64 Xpdf viewer's ZIPEXE archive filename differs from the AXP archive filename, as shown in this example for the VSI OpenVMS I64 and Alpha Xpdf viewer filenames:

- The Self-Extracting I64 ZIP archive is named: VSI-I64VMS-V0300-4B-1.ZIPEXE
- The PCSI kit is named: VSI-I64VMS-XPDF-V0300-4B-1.PCSI$COMPRESSED

- The Self-Extracting AXP ZIP archive is named: VSI-I64VMS-V0300-4B-1.ZIPEXE
- The PCSI kit is named: VSI-AXPVMS-XPDF-V0300-4B-1.PCSI$COMPRESSED

2. VSI OpenVMS Xpdf Viewer Requires ODS-5 Disk

The VSI OpenVMS Xpdf viewer must be installed on an ODS-5 disk. The installation procedure will abort if it does not find an ODS-5 disk.

3. Syntax Warnings About Font Substitution May Appear

The following syntax warnings may appear; they can be safely ignored.

```
Syntax Warning: Substituting font 'Times-Roman' for 'NewCenturySchlbk-Roman'
Syntax Warning: Substituting font 'Times-Italic' for 'NewCenturySchlbk-Italic'
Syntax Warning: Substituting font 'Times-Bold' for 'NewCenturySchlbk-Bold'
```