

Deploying Adobe Reader 9

Introduction

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Adobe® Reader® 9 can be deployed across an enterprise using a variety of Microsoft® Windows® system and third-party software distribution tools. It offers new features and bug fixes which make upgrading especially attractive. For information on the benefits of upgrading, see:

<http://www.adobe.com/products/reader/>
http://www.adobe.com/products/reader/productinfo/reasons_to_upgrade/

The English-language version of Reader 9 includes menus to connect users to Acrobat.com—a set of online services which include file sharing and storage, PDF conversion, an online word processor, and web conferencing:

<http://www.adobe.com/acom/>

This document discusses issues which should be considered before deployment, and it explains how to download and expand the compressed installer package. Adobe Customization Wizard® can be used to customize the installation and application settings to create more efficient workflows and better enforcement of preferred organizational practices. For example, it can be used to customize digital signature and security settings, and to edit the registry and installer tables to lock settings so they cannot be altered by users.

This document does not describe detailed deployment procedures. Once the installer has been downloaded, expanded, and customized, the resulting bootstrap installer and MSI package can be used with a variety of software distribution tools. Adobe provides installation guides for two popular deployment tools: Microsoft Systems Management Server (SMS), or Group Policy Object (GPO) with Active Directory®.

NOTE: Customization Wizard 9 will be available soon after the release of Reader 9. Customization Wizard 8 will not work with Reader 9. Other deployment guide documents (listed in [Appendix E: Resources](#)) for Reader 9 will also follow shortly after the release of Reader 9.

Intended Audience

This document is for enterprise IT administrators who manage solutions for their users. It is assumed that the reader has a knowledge of Windows installers and of Adobe Reader.

Compatibility

This document describes the Adobe Reader installer for Windows, which is compatible with the following operating systems and servers:

- Microsoft® Windows® 2000, Service Pack 4
- Microsoft Windows XP Home, Professional, or Tablet PC Edition with Service Pack 2 or 3 (32-bit and 64-bit)
- Windows Vista® Home Basic, Home Premium, Business, Ultimate, or Enterprise, with or without Service Pack 1 (32-bit and 64-bit)
- Windows Server® 2003 (32-bit and with Service Pack 2 for 64-bit)

If you are using the MSI installer, you must have MSI 3.0 or higher.

Getting Started

The following sections discuss issues to consider while planning for installation and use of Adobe Reader 9.

Hosting Reader on a Centralized Server

Adobe Reader can be hosted on a centralized server and then emulated on client machines using Citrix® MetaFrame® Presentation Server™ or Microsoft® WTS (Windows Terminal Services). For information see “[Hosting](#)” in [Appendix E: Resources](#) on page 16, for the following documents:

Adobe Acrobat 9 for Microsoft Windows Terminal Services

Adobe Acrobat 9 for Citrix MetaFrame Presentation Server

These documents will be available soon after the release of Reader 9.

Installer Interactions with Earlier Versions of Reader

When upgrading to Reader 9, the installer will always remove all earlier versions of Reader except Reader 5. Only one version of Reader can be installed at one time, but multiple languages are allowed. The installer will also preserve user preferences, as of Reader 8 or higher, for all future upgrades.

Table 1 shows the level of support for earlier versions of Reader.

TABLE 1 *Installer Support for Earlier Versions*

Installed Version of Reader	Preferences preserved?	Can be uninstalled by the Reader 9 Installer?
5 (and earlier)	No	No
6	No	Yes
7	No	Yes
8	Yes	Yes

Using Customization Wizard 9 to Control Installation and Operation

Adobe Customization Wizard was developed to allow IT administrators to easily customize the Adobe Reader installer and application. It enables organizations to customize their workflows for more efficiency and to be less susceptible to error.

Adobe Customization Wizard 9 allows you to:

- Optimize the behavior of the installer by including silent installation, pre-serialization, reboot, multilingual, and custom setup choices.
- Customize key application preferences and customize collaboration and security settings.
- Help prevent users from modifying certain preferences.
- Customize user access points to Acrobat.com

NOTE: Customization Wizard 9 will be available soon after the release of Reader 9. Customization Wizard 8 will not work with Reader 9.

For information on Customization Wizard 9, see the links for the data sheet and for downloading the software in [“Appendix E: Resources” on page 16](#).

The most important public properties defined in the installer tables are listed in [“Appendix C: Setting Installer Options Using Command-line Properties” on page 13](#). These properties may be used on the command line to make simple behavioral changes to the installer, but Adobe recommends using Customization Wizard rather than command line arguments.

NOTE: Prior to version 8, customization was handled by the Adobe InstallShield Tuner® utility.

Choosing Reader Settings and Preferences

A key step in planning for deployment of Reader 9 is to decide the installation parameters and user preferences you would like to set. You can then use Adobe Customization Wizard 9 to control both the installation and use of Reader.

For more information about features such as security, using document review servers, and other product features that may require custom settings, see the documents listed in [Appendix E: Resources “Appendix E: Resources” on page 16](#).

Plug-ins

Many organizations use plug-ins for Reader to customize their workflows to meet their particular needs. Customization Wizard 9 allows you to specify which custom plug-ins will be automatically installed during installation. Organizations can either use plug-ins from third-party suppliers or by developing their own plug-ins using the Acrobat Software Developers Kit (SDK). For more information, see the Acrobat Developer Center:

<http://www.adobe.com/devnet/acrobat/>

Upgrading Reader When Acrobat Is Installed

When deploying Reader 9 for users with Acrobat on their systems, the installer will set the more functional of the two applications, Acrobat, as the default PDF viewer. If the Acrobat application is an early version such as 5 or 6, opening PDFs can be significantly slower than with Reader 9.

It is possible to use Customization Wizard 9 to set Reader 9 as the default viewer, and the user can then open Acrobat as needed. However, Adobe does not recommend or support having both applications installed on the same system. Ideally, the user's Acrobat should be upgraded to the latest version and used as the default viewer, which will provide the user with better performance and enhanced security.

Acrobat.com

The English language version of Reader 9 provides the user with menus to connect to the Acrobat.com web site, and also installs the AIR™ runtime.

Some enterprises may prefer to not provide links to external Web sites. To do that, the enterprise version of the installer should be used:

IMPORTANT: *Before downloading the enterprise version of the installer, you should have a Reader distribution license agreement in place as referred to in the numbered step: "Download, complete, and return the Reader license agreement" on page 5. By clicking the link, you agree to the License Agreements and Privacy Policies for the software included.*

<http://www.adobe.com/go/7PG1W1K26>

Adobe Customization Wizard 9 can be used to disable Acrobat.com menus in Reader 9. Until Customization Wizard 9 is released (shortly after the release of Reader 9), you must manually edit the registry to disable the Acrobat.com feature by setting the following entry:

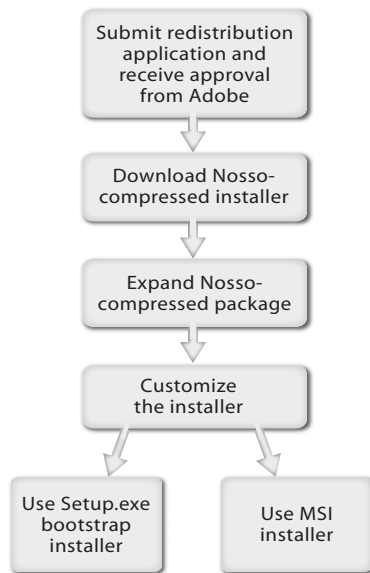
```
[HKEY_CURRENT_USER\Software\Adobe\Acrobat Reader\9.0\Workflows]
"bEnableAcrobatHS"=dword:00000000
```

Downloading and expanding the Installer

The Adobe Reader Installer is compressed using Nosso® technology from NetOpSystems®. When it is downloaded, the Nosso package can be run from the command line to expand the installer and leave both the bootstrap and MSI installer files on the desktop.

Figure 1 shows an overview of the process of licensing, downloading, and expanding the installer package. A full description of the procedure follows.

FIGURE 1 Deployment Process Diagram



To download and expand the installer package, do the following:

1. Download, complete, and return the Reader license agreement

- 1a. To distribute Adobe Reader on a CD, with a computer product, or within your enterprise, you must complete the Reader Distribution agreement form:

<http://www.adobe.com/products/acrobat/distribute.html>

- 1b. Read the information on the page that is displayed. Under the heading *Distribute free Adobe Reader Enterprise Edition*, click the link **Adobe Reader Distribution Agreement**, or navigate to:

<http://www.adobe.com/products/acrobat/acrrdistribute.html>

- 1c. Select the means of distribution from the drop-down menu titled *Select One*, and select the operating system.
- 1d. Fill out the form and click the **Accept and Submit** button.

A web page will appear which explains that you will receive an e-mail message to validate your e-mail address, to which you must respond. It also explains that you need to respond within two days. After responding, you will be notified within two days whether your application has been accepted or denied.

If your application is accepted, the e-mail you receive will contain a link for where to go to download Reader. The license agreement is good for one

year, and you will receive a reminder by e-mail in advance of the expiration date.

2. Download the Nosso-compressed installer package

- 2a. Using the link specified in your confirmation e-mail, go to the download page for the enterprise version of Adobe Reader.
- 2b. Choose the language and platform from the drop-down menu.
- 2c. Read the License Agreement
- 2d. Click **Download Adobe Reader**. You will be asked whether you wish to run or save the file; select **Save**. The Nosso-compressed installer package will be placed on the desktop.

3. Expand the Nosso-compressed package

Expand the Nosso-compressed file using the following from either the Run dialog or DOS command window:

```
<path to>\AdbeRdr90_en_US.exe <switches>
```

For example, the following command specifies that no files are to be executed after the expansion or installation, and the resulting files are to be placed in a folder named "Reader9":

```
<path to>\AdbeRdr90_en_US.exe -nos_o"Reader9" -nos_ne
```

where the switch "-nos_ne" specifies to not execute any file after installation, and "Reader9" is an example of a folder name for where to put the output files. It is best if you do not use an existing directory, and do not leave any spaces after "-nos_o".

A list of all command line switches for use in expanding the Nosso-compressed package is shown in Appendix A. If you are not using the U.S. English version of Reader, you must substitute the appropriate locale code for "en_US". A list of all locale codes is shown in Appendix D.

An example of the process and resulting files is shown in ["Example: Preparing for an MSI Installation" on page 7](#).

NOTE: If you are using SMS and do not need to customize, you can use the Nosso-compressed file directly with the SMS installer (proceed to step 5).

4. Customize before deployment

You can use Adobe Customization Wizard 9 to customize the installation by producing a .mst transform file to be added to the MSI package. For an example, see [Step 5](#) below.

To control whether Reader 9 links to Acrobat.com (it is only available in the English language version), see ["Acrobat.com" on page 4](#).

5. Deploy using a software distribution tool

You can deploy Reader 9 using either the Setup.exe bootstrap or the MSI Installer:

- **To use the Setup.exe bootstrap installer** use the following from the command line:

```
<path to>\setup.exe <switches>
```

The switches are listed in [“Appendix B: Command Line Switches for the Bootstrap Installer”](#) on page 12.

Example: To run the installer in silent mode, use the /sAll switch:

```
<path to>\setup.exe /sAll
```

If you used Customization Wizard to create a transform, the setup.ini file will already reference the transform file, and you only need to execute the above command. If you created a transform by another method, you can reference it as follows:

```
<path to>\setup.exe /sAll TRANSFORMS=<path to>\AdbeRdr.mst
```

- **To use the MSI installer** use the following from the command line:

```
<path to>\msiexec.exe <switches>
```

The switches include those specified by Microsoft Windows:

<http://support.microsoft.com/kb/314881/EN-US/>

as well as the installer public properties defined by Adobe shown in [“Appendix C: Setting Installer Options Using Command-line Properties”](#) on page 13.

Example: The following command will install Reader silently:

```
<path to>\msiexec.exe /i AcroRead.msi /qn
```

The following example shows a command line with arguments which reference a transform file:

```
<path to>\msiexec /i <path to>\AdbeRdr.msi  
TRANSFORMS=[UNCPATH]\AdbeRdr.mst /qn
```

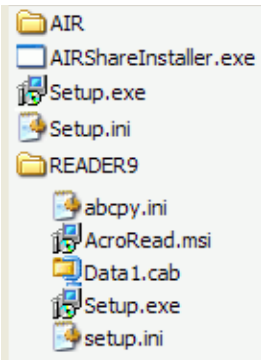
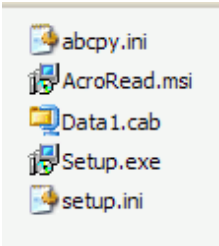
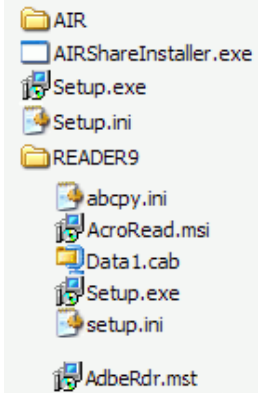
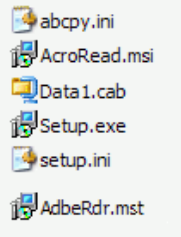
The MSI package can be used with a variety of system and third-party software distribution tools. Adobe publishes guides for two of the more popular tools: SMS and Group Policy, which are available at:

http://www.adobe.com/go/reader_developer

Example: Preparing for an MSI Installation

The following example shows the steps (corresponding to the numbered steps in the above procedure) for downloading and expanding the installer package.

TABLE 2 Preparing for an MSI Installation

	English language installer (including Acrobat.com)	Non-English language Installer (without Acrobat.com)
Procedure	Resulting disk contents:	Resulting disk contents:
<p>1 Sign and submit the Reader redistribution license agreement (URL in return e-mail)</p>		
<p>2 Download Reader Click "Download" button. Select Save</p>	AdbRdr90_en_US.exe	AdbRdr90_fr_FR.exe
<p>3 Expand the Nosso package Choose Start > Run and enter: <path to> AdbRdr90_en_US.exe -nos_o"Reader9Install" -nos_ne and click OK</p>		
<p>4 Customize the installer Use Customization Wizard 9 to create a .mst transform file which is added to the MSI installer package.</p>	<p>The resulting MSI package is now ready for installation.</p> 	<p>The resulting MSI package is now ready for installation.</p> 
<p>5 Deploy the resulting MSI package</p>	<p>For installing with SMS or GPO, see "Appendix E: Resources" on page 16. For bootstrap and MSI installer, see examples on page 6.</p>	

Post-deployment Integration

Deploying Acrobat or Adobe Reader in enterprise environments usually requires integration of the client into, for example, a security infrastructure such as a PKI (Public Key Infrastructure) or a system for review and commenting which uses a central comments depository. There may also be a need to specify and configure for LDAP Directory Servers, digital signature workflows, or for OCSP and Timestamp servers.

For more information, see the *Acrobat 9 Security Administration Guide*, and *Review and Commenting* document which is listed in "[Appendix E: Resources](#)" on page 16.

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Appendix A: Command Line Switches for Expanding the Reader Installer Package

The general form of the command to convert a Nosso-compressed file to an MSI package is:

```
<path to>\AdbeRdr90_en_US.exe [<switches>...]
```

where: <switches> can consist of either Nosso or Adobe switches.

The values for the NOS-Switches are shown in Table A.1.

TABLE A.1 Switches for Expanding Nosso Installer

Argument	Description
-nos_ne	Do not execute any file after installation (overrides the -e switch) This switch should be used if user only wants to extract the installer contents and not run the installer.
-nos_nd	Do not delete files after installation (overrides the -r switch) The -r switch uses the existing folder and overwrites the extraction files to the same folder without creating an additional extraction folder.
-nos_o	Specifies the name of folder where the contents of the expanded package are to be placed. The folder name should be enclosed in quotation marks. It is best if you do not use an existing folder, and there should be no space following the "-nos_o". For example: <pre><path to>\AdbeRdr90_en_US.exe -nos_o"TestFolder" -nos_ne</pre>
/sAll	This switch specifies that installation will be run in silent mode.

Defaults:

```
output folder: %TEMPDIR%/Adobe <Productname>
```

Appendix B: Command Line Switches for the Bootstrap Installer

Arguments can be passed to the Setup.exe bootstrap installer to control its operation. The general form of the command is:

```
<path to>\Setup.exe [<switches>...]
```

The values for the bootstrap installer switches are shown in Table B.1.

NOTE: All parameters are case insensitive.

TABLE B.1 *Switches for the Setup.exe bootstrap installer*

Switch	Description
/sAll	Run installer in silent mode.
/sPB	Silent mode with minimum UI, Progress Bar only.
/rs	Reboot Suppress. Setup.exe will not initiate reboot even if it is required.
/rps	Reboot Prompt Suppress. If reboot is required, the system restarts without warning.
/ini "PATH"	Relative or absolute path to an alternative (different) Bootstrapper INI file. The CmdLine of alternative INI will be ignored.
/l	Enable Error Logging. Log file Bootstrap.log will be generated in temp directory.
/sl "LANG_ID"	Set Language, where LANG_ID is the decimal code of the destination installation language. Use it only for the multilingual installer, and make sure that the corresponding language transform file exist in the setup directory. If /sl "LANG_ID" is not set and you are running the multilingual installer interactively (not silently), 'Choose Setup Language' dialog will be displayed.
/msi [Command line]	Identifies the portion of CmdLine for additional MSIEXEC command line parameters. Everything following /msi is passed to MSIEXEC without analyzing and without any changes. See Windows Installer Command-Line Options: http://msdn.microsoft.com/library/default.asp?url=/library/en-us/msi/setup/command_line_options.asp

Appendix C:

Setting Installer Options Using Command-line Properties

This appendix lists the public properties of the installer which can be specified or overridden by passing arguments to the installer when executing from the command line.

NOTE: Public property arguments must be all uppercase characters, and they can include underscores.

Scope of Runtime Property Settings

Some properties may be preset in the installer tables, and others not. The effect of specifying properties at the command line is shown in Table C.1.

For any property that is set in more than one place, the command line has the highest precedence, then a transform, then the Property table.

TABLE C.1 *Effect of Runtime Arguments on Property Values*

Property set in installer table?	Runtime value overrides property table?	At maintenance time
Yes	Yes	Property defaults to value set in installer property table
No	(property not in table, so runtime command determines setting)	Property is not set in table or by the command line.

EXAMPLE 1.1 *Setting Public Properties at Runtime*

The following installer command installs Reader in silent mode and overrides the browser integration property so it is turned on (it is off by default):

```
<path to>\msiexec.exe /i AcroRead.msi /qn DISABLE_BROWSER_INTEGRATION=YES
```

The public properties which can be set using the command line are shown in Table C.2. These settings can be used to override whatever settings are specified in the installer table.

TABLE C.2 *Public Properties for Command Line Control of the Installer*

Action	Property
Disable setup files caching	DISABLE_CACHE=1
Disable Acrobat/Reader browser integration	DISABLE_BROWSER_INTEGRATION=YES
Turn off "PDFMaker" feature	DISABLE_PDFMAKER=YES

Action	Property
Turn off "Create PDF" feature	DISABLE_DISTILLER=YES
Turn off "Asian Language Support" feature	DISABLE_ASIAN_FONTS=YES
Turn off Reader "SearchAndIndex" feature	DISABLE_SEARCH5=YES
Turn off Reader "MultimediaPlugin" feature	DISABLE_MULTIMEDIA=YES
Turn off Reader "ImageViewerPlugin" feature	DISABLE_IMAGEVIEWER=YES
Turn off Reader "CE_FONTS" feature	DISABLE_CE_FONTS=YES
Turn off Reader "Accessibility_Plugins" feature	DISABLE_ACCESSIBILITY=YES
Turn off Reader "Atmosphere_3D" feature	DISABLE_3D=YES
Turn off Reader "AdobeCommonLinguistics" feature (Spelling)	DISABLE_LINGUISTICS=YES
Disable and hide "Launch" checkbox on final dialog	SUPPRESS_APP_LAUNCH=Yes
Set PDF ownership type (Acrobat)	DEFAULT_VERB=Open
Set PDF ownership type (Reader)	DEFAULT_VERB=Read
Default install level	INSTALLLEVEL=100
Disable interoperability handling	IGNORE_INTEROP_REQS=YES

Appendix D: Locale Codes

The Reader Installer filename is of the form:

```
<path to>\AdbRdr90_en_US.exe
```

where “en_US” is the locale code for the language and country supported by that file. The locale code consists of a language code and a country code. The locale codes for the Reader 9 installer are listed in [Table B.1](#).

TABLE B.1

Language	Code
Chinese Simplified	zh_CN
Chinese Traditional	zh_TW
Danish	da_DK
Dutch	nl_NL
English	en_US
Finnish	fi_FI
French	fr_FR
German	de_DE
Italian	it_IT
Japanese	ja_JP
Korean	ko_KR
Norwegian	nb_NO
Portuguese – Brazilian	pt_BR
Spanish	es_ES
Swedish	sv_SE

Appendix E:

Resources

The following lists documents related to the deployment of Reader 9 and related features such as security, digital signature workflows, and the administration of review and commenting systems.

IMPORTANT: *The following documents will not be available until shortly after the release of Reader 9.*

Adobe Customization Wizard 9

Data Sheet:

http://www.adobe.com/go/reader_wizard_info

Download Customization Wizard 9:

http://www.adobe.com/go/reader_wizard

Deployment Guides

http://www.adobe.com/go/enterprise_deployment

Adobe Acrobat 9 for Microsoft Systems Management Server (SMS)

Adobe Acrobat 9 for Microsoft Windows Group Policy and the Active Directory Service

Hosting

http://www.adobe.com/go/enterprise_deployment

Adobe Acrobat 9 for Microsoft Windows Terminal Services

Adobe Acrobat 9 for Citrix MetaFrame Presentation Server

Security and Digital Signatures

<http://www.adobe.com/devnet/acrobat/security.html>

Digital Signatures in PDF

Digital Signatures in Acrobat

Acrobat Security User Guide

Acrobat Security Administration Guide

Review and Commenting

http://www.adobe.com/devnet/acrobat/online_review_admin.html

Acrobat Online Collaboration: Setup and Administration