



Deploying Adobe Acrobat Installers Using SMS

Technical Note #5420

Version :Acrobat 5.0



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August , 2001



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Preface

What Is In This Document

This document explains how you can deploy Adobe Acrobat 5.0 via Microsoft System Management Server® (SMS) to your enterprise clients.

Who Should Read This Document

If you are installing Acrobat and wish to deploy it using SMS, you should read this document.

Prerequisites

This document assumes you have a basic understanding of the Microsoft Windows Operating System, Microsoft System Management System, SMS Installer and Adobe Acrobat.

Other Useful Documentation

The Acrobat SDK includes many other books that you might find useful. When mentioned in this document, those books will often appear as live links (blue italic). However, in order to actually jump from this document to those books, those books must exist in the proper directories within your computer's file system. This happens automatically when you install the SDK onto your system.

If for some reason you did not install the entire SDK onto your system and you do not have all of the documentation, please visit the Adobe Solutions Network web site (<http://partners.adobe.com/asn/>) to find the books you need. Then download them and install them in the proper directories, which can be determined by looking at the Acrobat SDK Documentation Roadmap, included at the beginning of each book in the SDK.

Adobe provides various ways in which you can install Acrobat 5.0 to a large number of systems. You can find documentation about Enterprise Installation at

<http://partners.adobe.com/asndevloper/technotes/acrobatpdf.html>

including these technical notes:

- *Extending The Adobe Acrobat Installer On The Windows Platform*, which has information on manually changing settings in the ABCPY.ini and setup.iss files to customize your installation
- *Deploying Adobe Acrobat Using Microsoft Windows Terminal Service*, which has information on deploying Acrobat to your enterprise customers via Windows Terminal Service
- *Adobe Acrobat Enterprise Installation Tool*, which has step-by-step instructions for using an application that takes you through some of the more common enterprise customization procedures

Conventions Used In This Document

This document uses certain text styles to identify various operators, keywords, terms, and objects

TABLE P.1 *Document Conventions*

Item	Character Definition	Use and Examples
File names	Courier, 12-point	C:\templates\Acrobat_docs
Code items within plain text; parameter names in reference documents	Courier, 12-point, bold	The GetExtensionID method returns an ASAtom object
Code examples set off from plain text	Courier, 10-point, plain	These are variable declarations: AVMenu commandMenu,helpMenu;
Pseudocode	Helvetica, 11-point, italic	ACCB1 void ACCB2 ExeProc(void) { <i>do something</i> }
Cross references to Web pages	Blue text; everything else "as-is"	The Acrobat Solutions Network URL is: http://partners.adobe.com/asn/
Cross references to titles of other Acrobat SDK documents	Blue text; Helvetica, 11-point, italic	See the <i>Acrobat Core API Overview</i> .

TABLE P.1 Document Conventions(Continued)

Item	Character Definition	Use and Examples
Cross references within a document	Blue text; everything else “as-is”	See Section 3.1, “Using the SDK.” Test whether an ASAtom exists.
PostScript language operators, PDF operators, keywords, dictionary key names;user interface names	Helvetica, 11-point, bold	The setpagedevice operator The File menu
Document titles that are not cross-reference links, new terms, PostScript variables	Helvetica, 11-point, italic	<i>Acrobat Core API Overview</i> <i>filename</i> deletefile



Preface

Conventions Used In This Document

1

Overview

Adobe has validated the deployment of Acrobat 5.0 using Microsoft System Management Server® (SMS). If you are using SMS, you can deploy Acrobat 5.0 to your enterprise clients using Adobe installer and its underlying technology provided by InstallShield®.

By combining the features of SMS and Adobe's installer, you can deploy Acrobat 5.0 by simply creating a package within the SMS administrator console.

System Requirements

This section details the system requirements for installing Acrobat 5.0.

Reader System Requirements

In order to install the Reader for Acrobat 5.0, you need one of the following systems:

- Windows 95 OSR 2.0
- Windows 98 Second Edition
- Windows Millenium Edition
- Windows NT Service Pack 5 or 6
- Windows 2000

Acrobat System Requirements

In order to install the full Acrobat 5.0 product, you need:

- Pentium-class processor
- 32 MB of RAM (64 MB recommended)
- 115 MB of available hard-disk space
- Additional 70 MB of hard-disk space for Asian fonts (optional)
- CD-ROM drive
- and one of these operating systems:
 - Windows 95 OSR 2.0
 - Windows 98 Second Edition
 - Windows Millenium Edition

- Windows NT 4.0 with Service Pack 5 or 6
- Windows 2000

Browsers Supported In Acrobat and Reader

These browsers are supported in Acrobat 5.0:

- Internet Explorer 5.0 or 5.5
- Internet Explorer 4.x
- Netscape Navigator 4.x
- America On Line 4.x
- Lotus Notes Client 4.6 or greater

Permissions

You must have local Administrator rights to complete an installation on computers running Windows NT.

Client status

A user must be logged onto the machine during the installation.

Deployment Overview

This section of this document outlines the process you use to deploy Acrobat using SMS; you can find detailed procedures elsewhere in this book.

Uninstall Previous Versions

You should uninstall all previous versions of Acrobat, including the Reader, before you install Acrobat 5.0. (This is not strictly required but is strongly recommended as you may encounter Read-only files.) Uninstall a previous version of Acrobat via one of these methods:

- Through ABCPY.ini, using switches and setup.iss. (setup.iss is a recording file provided by Adobe. See *Extending Adobe Acrobat Installers in Windows* for more information.)
- Through add/remove programs
- Through an SMS Script.

NOTE: The uninstall process requires a reboot. If you do not reboot after the uninstall of a previous version of Acrobat, and then do reboot after the installation of Acrobat 5.0, the installer may remove the incorrect file.

ABCPY.ini and supporting switches allow you to perform a silent install of Acrobat 5.0 and leave the current version of Acrobat intact. When you use ABCPY.ini without the silent mode feature you will be prompted to overwrite the Read-only file. When you use ABCPY.ini with the silent mode feature (-s switch) in setup.iss, the switch is set to **OverWriteOnly=YestoAll**.

Copy of Setup.iss

To perform a silent uninstall of a previous version of Acrobat, you need to copy setup.iss to the same directory from which you will execute setup.exe. You can copy this into a text file and save it as setup.iss:

```
[InstallShield Silent]
Version=v5.00.000
File=Response File
[File Transfer]
OverwriteReadOnly=YesToAll
[DlgOrder]
Dlg0=SdWelcome-0
Count=3
Dlg1=AskYesNo-0
Dlg2=AskYesNo-1
[SdWelcome-0]
Result=1
[AskYesNo-0]
Result=1
[AskYesNo-1]
Result=1
```

Distribute Acrobat 5.0

After you have uninstalled all previous versions of Acrobat and rebooted the machine(s), distribute Acrobat 5.0 using Acrobat Install and the ABCPY.ini.

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Process Workflow

The reason you are deploying Acrobat through SMS is to make the distribution as easy and painless as possible for your user base. This means leaving to them the fewest possible decisions, and automating as much as you can. Once you have determined a deployment method, Adobe Installer and/or SMS Installer automatically runs through the entire installation as the user would, and then launches the installed application.

You must follow several basic steps to deploy Acrobat using SMS. This chapter details that workflow flowchart. Some companies add more to the workflow, but this flowchart shows the necessities.

Tested Environments

Adobe has validated the deployment of Acrobat 5.0 in several different environments.

Server Operating Systems

These operating systems have been validated:

- Windows NT Server 4.0 SP4 or greater
- Windows 2000/Active Directory
- Microsoft DNS, DHCP & WINS
- Microsoft System Management Server 2.0, Service Pack 2

Desktop Operating Systems

[Table 2.1](#) displays the validated desktop operating systems and applications. Each desktop operating system was configured with a version of MS Office and one of two anti-virus software packages. The first pass of testing used MSOffice 97 and Norton Anti-virus software, the second used MSOffice 2000 and McAfee anti-virus software. In each case, the client machines were configured with Internet Explorer 5.0 and Netscape Navigator 4.73 browsers.

TABLE 2.1 *Desktops Operating Systems and Applications*

Operating Systems	MSoOffice 97 Norton Anti-Virus	MSoOffice 200 McAfee Anti-Virus 4.0
Windows 95 OSR2	√	√
Windows 98 Second Edition	√	√
Windows Millennium Edition	√	√
Windows NT 4.0 Service Pack 4 or greater	√	√
Windows 2000	√	√

Installation Methods

Adobe has tested and recommends one of the following installation methods. The most common method used is Acrobat Installer and it's supported switches. Using an SMS package and adding command line switches like `-s` and `-SMS` meets 90% of customer needs. Another method would be to script Acrobat to meet specific needs within your environment.

Uninstall Previous Versions

Adobe recommends that before distributing any of the Acrobat 5.0 products to end users, the clients should first uninstall all previous versions of Acrobat. Acrobat Installer has a built-in mechanism to allow a user to uninstall previous versions of Acrobat through the `ABCOPY.ini` file. To uninstall previous versions of Acrobat perform these procedures:

1. Determine which clients in your environment have previous versions of Acrobat install by running a query.
2. Create an SMS Query

The sample query below identifies all clients in your SMS database that have previous versions of Adobe Acrobat and Acrobat Reader installed, assuming you have software inventory enabled. The query should resolve all clients that have Acrobat Reader installed and the file size is less than the version Acrobat Reader

5.0. The query criteria is **search for Filenames AcroRd32.exe** and the File Size must be less then 3800000.

Sample Query

```
select SMS_R_System.Name, SMS_R_System.SMSAssignedSites,
SMS_R_System.IPAddresses, SMS_R_System.IPSubnets,
SMS_R_System.OperatingSystemNameandVersion,
SMS_R_System.ResourceDomainORWorkgroup,
SMS_R_System.LastLogonUserDomain, SMS_R_System.LastLogonUserName,
SMS_R_System.SMSUniqueIdentifier, SMS_R_System.ResourceId,
SMS_R_System.ResourceType, SMS_R_System.NetbiosName from SMS_R_System
inner join SMS_G_System_SoftwareFile on
SMS_G_System_SoftwareFile.ResourceID = SMS_R_System.ResourceId where
SMS_G_System_SoftwareFile.FileName = "AcroRd32.exe" and
SMS_G_System_SoftwareFile.FileSize < 3800000
```

3. Create a collection and use the query you created in the previous step for your Membership Rules.
4. Configure ABCPY.ini and Setup.iss to perform a silent uninstall. Both files must reside in the same directory you call the Acrobat Setup.exe from.

a. Changes required in ABCPY.ini

```
CloseRunningApps=YES
InstallModeSilent=YES
UninstallCombineVersions=YES
UninstallPreviousVersions=YES
UninstallModeSilent=YES
```

b. Cut and copy the following strings to a text file and save the file with the name Setup.iss

```
Version=v5.00.000
File=Response File
[File Transfer]
OverwriteReadOnly=YesToAll
[DlgOrder]
Dlg0=SdWelcome-0
Count=3
Dlg1=AskYesNo-0
Dlg2=AskYesNo-1
[SdWelcome-0]
Result=1
[AskYesNo-0]
Result=1
[AskYesNo-1]
Result=1
```

5. In the SMS Administrator Console create a package for the uninstall process. Assign it the program and advertise the package to the collection created earlier.
6. In addition to uninstalling the previous version of Acrobat the program should reboot the client upon completion.
 - a. Assign to the Program:

- Command Line: **Setup.exe -s -SMS**
- After running: SMS Restarts the Computer

If you do not want to uninstall previous versions of Acrobat before you install version 5.0 specify these settings in the ABCPY.ini file:

```
UninstallCombineVersions=YES
UninstallPreviousVersions=NO
UninstallModeSilent=YES
```

Using Acrobat5 Installer

Configure ABCPY.ini and Setup.iss to perform a silent install. Remember that both files must reside in the same directory as the Acrobat Setup.exe.

Changes required in ABCPY.ini

```
DisplayWelcomeDlg=NO
DisplayEULA=NO
DisplayTypeOfInstallDlg=NO
DisplaySelectDestDirDlg=NO
DisplayCustomDlg=NO
DisplayUserInfoDlg=NO
DisplayConfirmRegDlg=NO
DisplayStartCopyDlg=NO
DisplayFinishDlg=NO
DisplayFinalMessage=NO
DisplayRebootDlg=NO
DisplayMaintUIDlg=NO
DisplayBillboards=NO
ProgGroupName=Adobe
DefaultDestDir=xxxx(Specify the directory that you want to install Adobe
Acrobat5 to)
UserName=xxxxx(Specify the name)
UserCompanyName=xxxx(Specify the your company name)
UserSerialNumber=xxxxx(Specify the serial number provided by Adobe)
DisplayBackGround=NO
DisplayProgressBar=NO
ProgressBarStart=NO
ProgressBarEnd=NO
CloseRunningApps=YES
InstallModeSilent=YES
```

Changes Required in Setup.iss for English Version

For the English version of Adobe Acrobat, cut and copy the following strings to a text file with the name Setup.iss:

```
[InstallShield Silent]
Version=v5.00.000
File=Response File
[File Transfer]
OverwriteReadOnly=YesToAll
[Application]
Name=Acrobat
Version=5.0
Company=Adobe
Lang=0009
[DlgOrder]
Count=0
```

Changes Required in Setup.iss for Other Languages

For languages other than English, cut and copy the following strings to a text file with the name Setup.iss (but note the instructions in the next paragraph):

```
[InstallShield Silent]
Version=v5.00.000
File=Response File
[File Transfer]
OverwriteReadOnly=YesToAll
[Application]
Name=Acrobat
Version=5.0
Company=Adobe
Lang=nnn
[DlgOrder]
Count=0
```

If you wish to install Adobe Acrobat using languages other than English, you must also set the **Lang=nnnn** in the Setup.iss file to the appropriate code. You can find the codes in the Setup.lid file; however, there are no language names to aid you in determining the code for your specific language. This is because the codes are those used by InstallShield. [Table 2.2](#) provides a mapping of InstallShield codes to language names for your convenience:

TABLE 2.2 Language Codes For Setup.iss

Code Necessary for Setup.iss File	Language
0006	Danish
0007	German

Code Necessary for Setup.iss File	Language
000a	Spanish
000b	Finnish
0010	Italian
0011	Japanese
0012	Korean
0013	Dutch
0014	Norwegian
001d	Swedish
0404	Chinese Traditional
040c	French
0416	Portuguese Brazil
0804	Chinese Simplified

Uninstall and Install at the Same Time

Acrobat Installer also allows the user to uninstall all previous versions of Acrobat and install Acrobat 5.0 in one installation package through the `ABCPY.ini` and `Setup.iss` files. However, Adobe does not recommend this method at this time because of unpredictable results such as hanging during the final phase of installation. Another problem is that during the uninstall of the previous Acrobat versions, the uninstaller marks locked files to be deleted after a reboot. However, no reboot is performed before the new install of Acrobat 5.0, and the new files that have been installed by Acrobat 5.0 are removed after the reboot.

Command Line Switches

The following list shows the command-line switches you can use to control Acrobat 5.0 setup. These switches are optional. They are not case sensitive; you can use upper- or lower-case letters, with the exception of `-SMS`.

Parameter Description

`/d` or `-d` runs setup in debug mode. The `-d` switch also includes a `<pathonly>` option for specifying the path of the `Setup.rul` file. For more information, refer to the Visual Debugger help file.

`/f<path\CompiledScript>` or `-f<path\CompiledScript>` specifies an alternate compile script. Unless the compiled script (`.ins` file) also resides in the

same directory as that of `Setup.exe`, the full path to the compiled script must be specified. `_setup.dll` must also reside in the same directory as your `.ins` file. For example, `setup -ftest.ins` will launch `Setup` using `Test.ins` instead of `Setup.ins`.

`/f1<path\ResponseFile>` or `-f1<path\ResponseFile>` specifies an alternate location and name of the response file (`.iss` file). If this option is used when running InstallShield Silent, the response file is read from the folder/file specified by `<path\ResponseFile>`. If this option is used along with the `-r` option, the response file is written to the folder/file specified by `<path\ResponseFile>`. If an alternate compile script is specified using the `-f` switch, the `-f1` switch entry must follow the `-f` switch entry.

`/f2<path\LogFile>` or `-f2<path\LogFile>` specifies an alternate location and name of the log file created by InstallShield Silent. By default, `Setup.log` log file is created and stored in the same directory as that of `Setup.ins`. If an alternate compile script is specified using the `-f` switch, the `-f2` switch entry must follow the `-f` switch entry.

`/m<filename>` or `-m<filename>` causes `Setup.exe` to automatically generate a Management Information Format (`.mif`) file at the end of the setup. Do not include a path as the `.mif` file is always placed in the Windows folder. `<filename>` is optional. If you do not specify a filename, the resulting file will be called `Status.mif`.

`/m1<serial number>` or `-m1<serial number>` tells `setup` to place the indicated serial number in the created `.mif` file.

`/m2<locale string>` or `-m2<locale string>` tells `setup` to place the indicated locale in the `.mif` file. English (ENU) is the default; refer to Microsoft documentation for a complete listing of locale strings.

`/r` or `-r` causes `Setup.exe` automatically to generate in the Windows folder a silent setup file (`.iss` file), which is a record of the setup input.

`/s` or `-s` runs InstallShield Silent to execute a silent setup

`/SMS` or `-SMS` prevents a network connection and `Setup.exe` from closing before the setup is complete. This switch works with `Setups` originating from a Windows NT server over a network. Please note that `SMS` must be uppercase; this is a case-sensitive switch.

`/z` or `-z` prevents `Setup.exe` from checking the available memory during initialization. This switch is necessary when running a setup on a machine with more than 256 MB of memory; if it is not used, `Setup.exe` reports insufficient memory and exits.

Setup.exe Examples

The following examples illustrate the use of `Setup.exe`, including use of the command line switches `-s`, `-d`, `-f`, `-f1`, and `-f2`:

setup. Launches *setup* and tries to load *Setup.ins* from the same directory that contains *Setup.exe*.

setup -fTest.ins. Launches *Setup* and tries to load *Test.ins* from the same directory that contains *Setup.exe*.

setup -fC:\Mydir\Test.ins. Launches *Setup* and tries to load *Test.ins* from the *C:\Mydir* folder.

setup -d. Launches the InstallShield Visual Debugger and tries to load *Setup.ins* from the same folder that contains *Setup.exe*.

setup -dC:\Mydir\Test. Launches the InstallShield Visual Debugger, tries to load *Setup.ins* from the same folder that contains *Setup.exe*, and looks for the *Setup.rul* file in the *C:\Mydir\Test* folder.

setup -d -fC:\Mydir\Test.ins. Launches the InstallShield Visual Debugger and tries to load *Test.ins* from the *C:\Mydir* folder.

setup -s. Launches InstallShield Silent and tries to load *Setup.ins* and *Setup.iss* from the folder containing *Setup.exe*. The log file *Setup.log* is created in the same folder.

setup -s -f1C:\Mydir\Mydir.iss. Launches InstallShield Silent, tries to load *Setup.ins* from the same folder, and uses *Mydir.iss* (from the *C:\Mydir* folder) as the response file. This example also creates the log file *Setup.log* in the same folder as that of the response file (*C:\Mydir*).

If you specify an alternate compiled script using the **-f** switch and you place **-f1** before **-f** in the command line, *Setup* will ignore the **-f1** switch and will create the response file (the *.iss* file) in the Windows folder.

setup -s -f1C:\Mydir\Mydir.iss -fC:\Mydir\Mydir.ins. Will not launch InstallShield Silent because the **-f1** switch is used before the **-f** switch, and **-f1** is therefore ignored. No log file will be generated. However, the *-fC:\Mydir\Mydir.ins* portion of the command line expression is executed.

setup -s -fC:\Mydir\Mydir.ins -f1C:\Mydir\Mydir.iss. Launches InstallShield Silent, tries to load *Mydir.ins* from the *C:\Mydir* folder, uses *Mydir.iss* from the *C:\Mydir* folder, and generates the log file *Setup.log* in the *C:\Mydir* folder.

setup -s -fC:\Mydir\Mydir.ins -f1C:\Mydir\Mydir.iss -f2C:\Mydir\Mydir.log. Launches InstallShield Silent, tries to load *Mydir.ins* from the *C:\Mydir* folder, uses *Mydir.iss* from the *C:\Mydir* folder, and generates the log file *Mydir.log* in the *C:\Mydir* folder.

Using Setup.exe:

When using long path and filename expressions with switches, enclose the expressions in double quotation marks. This tells the operating system that spaces within the quotation marks are not to be treated as command line delimiters.

Do not leave a space between command line switches and options.

If you specify an alternate compiled script using the `-f` switch, always use the `-f` switch before specifying an `-f1` or `-f2` switch.

When InstallShield Silent runs, a log file is created in the same folder as the response file. The log file has the default name `Setup.log` if the `-f2` switch is not provided along with `-f1`.

If the `-f1` switch is not used when running InstallShield Silent, Setup looks for the response file `Setup.iss` in the same folder as `Setup.exe`. A log file is created in the same folder.

Make sure that `_user1.cab` and `_setup.dll` are stored in the same folder as the compile script. That is, if `Setup.ins` resides in the `C:\Mydir` folder, then `_user1.cab` and `_setup.dll` must also reside in `C:\Mydir`.

`Setup.exe` command line switches/options are not case sensitive, with the exception of `-SMS`.

The Scripting Phase—Using SMS Installer

A successful Scripting Phase is dependent upon a good scripting environment. The scripting environment consists of a good scripting program such as SMS Installer and a “clean” PC. Clean PC means a low-end computer that is a nominal installation of the company's standard OS. Nothing else should be installed; only the bare necessities of the standard OS with the minimal amount of components. Once the final “clean” PC is finalized for your environment, use the “imaging” product of your choice to make a copy of the clean environment. You will use this image later in the process.

This phase is also dependent on a qualified scripting person. In large enterprise environments, scripting can be a full-time job. Hiring a person specifically to script distributions is a good idea. Once the script is complete, the functional groups can sign off on the final product or send it back to the drawing board.

After the script is complete and compiled into an executable, the scripting machine should be put back in “clean” shape.

Once the PC is back to “pristine” condition, run through the entire installation as the user would, then run the installed application. Then test the results (see [After Installation](#) for more details.)

To prevent compromising security, the script also disables the mouse and keyboard to prevent the local user from interrupting the script while the computer is logged on with administrative rights. For additional information about enabling automatic logon, read these articles in the Microsoft Knowledge Base:

- Q119591 How to Obtain Microsoft Support Files from Online Services

- Q97597 How to Enable Automatic Logon in Windows NT 3.1, 3.51 & 4.0
- Q253370 How to Enable Automatic Logon in Windows 2000

For more information, including an overview of Systems Management Server Installer, please review chapter 13 of the *Administrator's Guide for Systems Management Server 2.0*.

Distributing Acrobat Using System Management Server

This section details the distribution phase of the deployment.

Setting Up The Server

Systems Management Server 2.0 offers greater control and flexibility in software distribution than in previous versions of the product. Built-in functionality includes the option to force a package to run using a specified account with administrative rights on the target computer. This is necessary when distributing to clients who either are not logged on or when the logged on user does not have local Administrator rights on the computer.

To specify the account that you want software distribution to use when clients are not logged on, perform these steps on the site server:

1. Click Start, point to Programs, click System Management Server, and then double-click SMS Administrator Console. This starts Microsoft Management Console (MMC).
2. In the left pane, expand the Site Database tree, and then expand the Site Hierarchy node under Site Database.
3. Right-click the site, and then click Properties.
4. On the Accounts tab, click the Set button next to the SMS Client Remote Installation Account box. Specify the account that you want to use to perform the software installation. The account needs to have domain Administrator rights as well as local Administrator rights on the workstations. The Remote Client Installation component primarily uses this account, but software distribution also uses the account to run packages on computers that are not logged on to the network.

Creating the Systems Management Server Package

You can use the following steps to create the Systems Management Server 2.0 package for deployment. This is the actual package that Systems Management Server uses for distribution.

1. Open the Systems Management Server console, right-click Packages, and click New/Package.
2. On the General tab, type a name for the package.
 - Name** - The name of the package, up to 50 characters (for example, "Adobe Acrobat"). This field is required.
 - Version** - The version number of the software package, up to 32 characters. (For example, "5.0")
 - Publisher** - The name of the software publisher, up to 32 characters. (For example "Adobe Systems Incorporated".)
 - Language** - The language version of the software, up to 32 characters. ("English")
 - Comment** - Optional text about the package, such as a description. You can use up to 127 characters.
3. On the Data Source tab, click to select the This Package Contains Source Files check box, and then click Set.
4. Under Source Directory Location, click the type of connection to the set up files in the source directory, and then click OK.
5. On the Distribution Settings tab, in the Sending Priority box, click High, and then click OK. The package should now appear under the Packages node of the site tree within the console.
6. Expand the package under the Packages node.
7. Right-click Distribution points, click New/Distribution Points, and then click Next to begin choosing distribution points.
8. Click to select the check box by the server or servers that you want to be the distribution points for this package, and then click Finish. You are returned to the site tree.
9. Right-click Programs under this package, click New/Program, and then type a name for the program.
10. In the Command Line box, type the full path to Acrobat executable file, or click Browse to locate the file. Add these switches:
 - **-s** for silent mode
 - **-SMS** or **SMS** (This switch is case sensitive.)
11. On the Environment tab, click to clear the User Input Required check box.
12. Click to select the Run with Administrative rights check box, and then click OK.
 - NOTE:** You must click to select this check box for the package to run successfully. Acrobat Setup requires administrative rights to make modifications to the client's registry.

The Packages window now reappears and the newly created Systems Management Server package is displayed.

Creating the Advertisement

Use these steps to create the advertisement that offers the package to the clients:

1. Create a collection of clients that are targeted to receive the distribution. You can base the collection on a query or direct membership rules.
2. Right-click the collection that will receive the package, and then click All Tasks/Distribute Software.
3. The Distribute Software Wizard starts. Click Next.
4. Click Distribute an existing package, click the Internet Explorer package, and then click Next.
5. Make sure the distribution point is selected, and then click Next.
6. Click the program you want to install, and then click Next.
7. Fill in the advertisement name if appropriate, and then click Next.
8. Specify any subcollections that should also receive this advertisement, and then click Next.
9. Confirm or change the time the advertisement is offered and specify if the advertisement should expire and when.
10. On the Assign Program page, click Yes to assign the program.
11. Click Next, and then click Finish.

After Installation

After the installation is complete, you need to go through every component of the installed application to make sure everything works. For instance, you need to open files, open multiple files at once, close files, save files, print files, and so forth. This section details some of the tests you can perform to ensure that the installation of Acrobat 5.0 was successful.

Basic Acceptance Tests for Acrobat

1. Perform a standard install on a system that has Internet Explorer and Netscape Navigator installed, but that has never had Acrobat installed.
2. Launch Acrobat and verify that no error messages are displayed at startup.

3. Verify that plug-ins are loaded:
 - a. Select **Help>About Adobe Acrobat Plug-ins**
 - b. Select each plug-in listed in the left hand column
 - c. Verify that each plug-in's "Loaded" status is "Yes." The "Loaded" status is located to the right of the list of plug-ins under the "File Name" field.
4. Open each of the provided test files. Page through each file.
5. Print each file to a networked printer.
6. Save As
Select three test files and do a SaveAs with or without changes.
7. Insert
 - a. Open any file.
 - b. Select **Document>Insert Pages**.
 - c. Select any other file and insert it somewhere in the document.
 - d. SaveAs the resulting file into a new file.
 - e. Close and reopen the new file
 - f. Verify that the new file has the inserted pages.
8. Menu Items
Select each menu item. If a dialog comes up, Cancel out of it. If a document comes up, close it. If selecting the menu item leads you to a web page, close it.
9. View a PDF file in Internet Explorer.
 - a. In Internet Explorer go to <http://www.adobe.com/products/acrobat/pdfs/pdfaccess.pdf>
 - b. Verify that the PDF file views inside Internet Explorer.
10. View a PDF file in Netscape Navigator.
 - a. In Navigator go to <http://www.adobe.com/products/acrobat/pdfs/pdfaccess.pdf>
 - b. Verify that the PDF file views inside Navigator.

