

Intel® vPro™ Technology Use Case Reference Design

Automatic Overnight Patching with LANDesk* 8.8

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Contents

1 Preface	5
1.1 Intended Audience	5
2 Introduction	6
2.1 Example Used Throughout This Document	6
2.2 Use Case Process Overview.....	7
3 Step-by-Step Process	8
3.1 Create a Package in LANDesk*	8
3.1.1 Obtain Adobe* Install File and Determine the Command Line to Install ...	8
3.1.2 Copy Adobe Installation File to a Network Share for LANDesk Use	8
3.1.3 Add Adobe Software Package to LANDesk Console	9
3.1.3.1 Create a Task for the Package	10
3.1.4 Create Shutdown Package with Adobe Software Package	11
3.2 Deploy the Package and Enable the System to Wake Up	11
Figures	
Figure 1: New Executable Menu	9
Figure 2: Distribution package – properties Window	10
Figure 3: Click and Drag Computer Name and Drop on Scheduled Task.....	12

1 Preface

With the release of Intel® vPro™ technology, companies have adopted the practice of using a third-party management console to manage their machines that have Intel vPro technology. To help customers get started with using their third-party consoles with Intel vPro technology, this Use Case Reference Design document provides information on performing the basic functions of creating a package, turning the remotely managed system on, deploying the package, and then rebooting the remotely managed system.

1.1 Intended Audience

This document is intended for Information Technology (IT) professionals who use LANDesk* 8.8 SP4 to manage Intel vPro technology based systems. These IT professionals should have access to the full functionality of their company's third-party management console. Readers should have a good working familiarity with Intel vPro Technology, and including configuration and use of the Intel AMT platform for out-of-band management. Readers should also be familiar with the basics of IT infrastructure, especially networked environments and their component technologies.

2 Introduction

This Use Case Reference Design provides instructions on using LANDesk* 8.8 SP4 to wake, patch, and reboot a remotely managed Intel vPro technology based system by doing the following:

- create an update package in LANDesk 8.8 SP4
- turn on the remotely managed system
- push the update package to the remotely managed system
- reboot the remotely managed system

This process assumes the remotely managed system is already set up and configured for use with LANDesk 8.8 SP4.



NOTES

Although this Use Case Reference Design document describes the use of LANDesk 8.8 SP4, you may use any third-party management console to perform the same functions (although some steps may need to be altered to work with another management console).

This process enables IT departments to create a small package that installs either a single application and/or hotfix or a series of applications and/or hotfixes, and also includes the shutdown command. These are basic functions, but once you learn how to use them and can deploy them consistently, your IT departments can schedule managed systems to be turned on at night, have update packages installed on them, and then be shut down again before customers come into work. It's a great way to ensure that the remotely managed clients are patched even if they are turned off at night.

2.1 Example Used Throughout This Document

The example referenced throughout this document shows how to use Microsoft LANDesk 8.8 SP4 to deploy an Adobe Acrobat update to an Intel vPro technology based managed client that has been set up and configured with LANDesk 8.8 SP4. The environment illustrated in the document example has the following requirements:

1. Access to the LANDesk console
2. Access rights to create a package in LANDesk
3. Access rights to deploy a package in LANDesk
4. Access rights to the Intel AMT functions in LANDesk to turn on and reboot a remotely managed system
5. The remotely managed system must already be provisioned by LANDesk

Other types of deployments, management consoles, Intel AMT states, etc. are beyond the scope of this document. This document will not address all features of the third-

party management console but rather will focus only on base steps of creating and deploying a package.

2.2 Use Case Process Overview

In order to begin creation of the package, first we must have access to the LANDesk console and have verified the machine is already provisioned. Next we will create a package, turn the system on, deploy the package, and reboot the machine.

The following table provides a brief overview of this use case's implementation process.

Phase description	The IT Professional creates a package, turns the client system on, deploys it, and then reboots the machine.
Phase prerequisites	<ul style="list-style-type: none"> Managed Clients must already be set up and configured using LANDesk. http://communities.intel.com/community/openportit/vproexpert/activation/blog/2008/10/10/new-and-improved-landesk-88-quick-start-guideIT professional must have full access to the third-party management console IT professional must have accounts and passwords for Intel AMT functions on the client
Phase flow	<ol style="list-style-type: none"> 1. Log into the LANDesk console 2. Create a package 3. Locate the remote managed system in LANDesk 4. Turn on remote managed system if necessary 5. Deploy package 6. Reboot remote managed system 7. Turn off remote managed system if necessary
Phase outcome	Package is deployed successfully to remotely managed system

3 Step-by-Step Process

This chapter and its subsections describe the process to create a package, wake the target remote system, deploy the package, and reboot the remote system after the deployment.

**NOTE**

The IT professional must have access to the LANDesk console, have permissions to create and deploy packages, and permissions to turn on and off remote systems.

3.1 Create a Package in LANDesk*

Perform the steps to create a package in LANDesk.

**NOTE**

The document example shows the steps for deploying Adobe Acrobat*. These steps are applicable to other software packages.*

3.1.1 Obtain Adobe* Install File and Determine the Command Line to Install

From www.adobe.com download the full installer for Adobe* Acrobat* Reader. At the time of this writing the link is

<http://www.adobe.com/support/downloads/new.jsp> Once install package is obtained, command line parameters must be determined to perform a silent install. Usually this can be done by running the installer executable from a command line with the /? argument. This works for Adobe Acrobat Reader. In this case the command line we want is AdbeRdr910_en_US.exe /sPB /rs.

NOTE

Write down the command line parameter information. It will be used later in this procedure.

3.1.2 Copy Adobe Installation File to a Network Share for LANDesk Use

Copy the Adobe Acrobat Reader installation file to a network share where you can access it from your LANDesk console. In the document example, the file was copied to the network share \\landesk\shared\AdobeAcrobat93.

3.1.3 Add Adobe Software Package to LANDesk Console

In the LANDesk Management Suite, perform the following steps:

1. In the left-hand **Toolbox** menus, under the **Distribution** toolbox, select **Distribution Packages**.
2. In the lower right pane labeled **Distribution Packages**, click the **New Distribution Package** button and select **New executable package** from the menu. . **Note:** if you are using LANDesk 9.0, select a subfolder first.

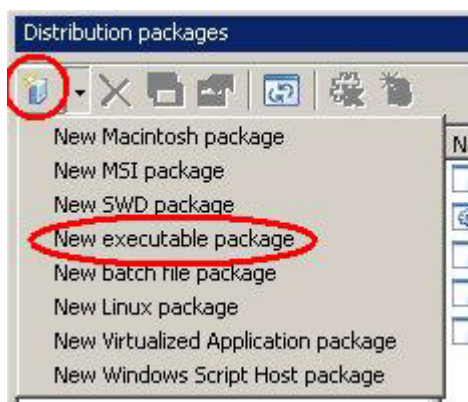


Figure 1: New Executable Menu

3. In the **Distribution Package Properties** window, edit the **Name** field to **Adobe Acrobat 9.3 Full Installation**.
4. In the left-hand pane, select **Package Information** and enter **Full installer for Adobe Acrobat 9.3** for the **Description to show end users on download** field.
5. For the **Primary File**, enter a server and share location in the location field (in the document example this is \\landesk\shared), then click **Go** (blue arrow icon).
6. In the **Primary File** pane, double-click the desired folder (in the example this is **AdobeAcrobat93** where you copied from Adobe's web site in previous steps above).

7. Select the desired executable (in the example this is **AdbeRdr930_en_US.exe**). See Figure 2 below.

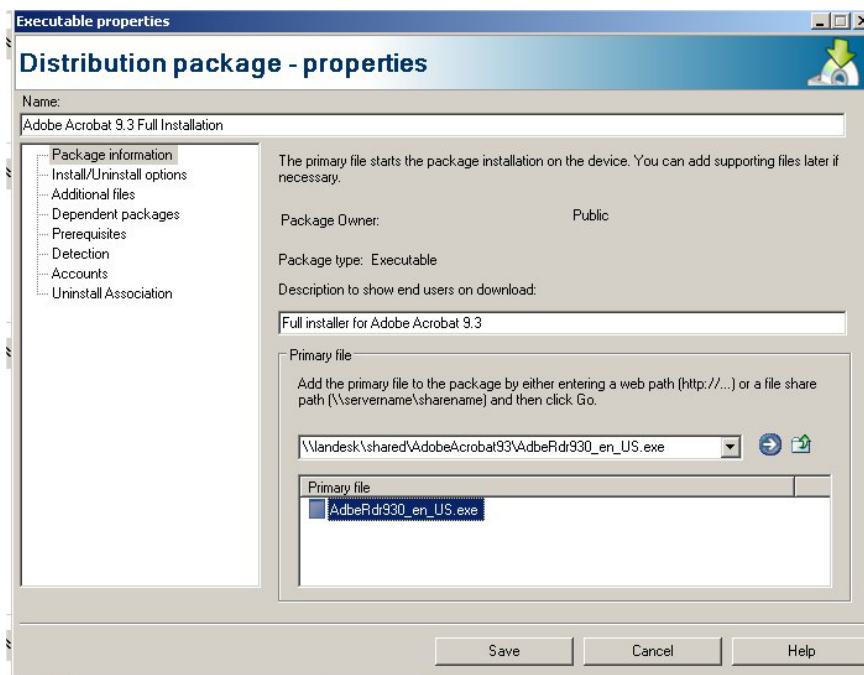


Figure 2: Distribution package – properties Window

8. In the left-hand navigation pane, select **Install/Uninstall options**.
9. For the **Command line** enter **/sPB /rs**.
10. Leave the following items in the left-hand navigation pane unchanged: Additional Files, Dependent packages, Prerequisites, Detection.
11. In the left-hand navigation pane, select **Accounts**.
12. Under **Accounts**, select **LocalSystem account**.
13. Leave **Uninstall Association** unchanged.
14. Click **Save**.

3.1.3.1 Create a Task for the Package

1. In the lower right-hand **My distribution packages** pane, right-click **Adobe Acrobat 9.3 Full Installation** and select **Create scheduled task** from the menu.
2. Right-click the task **Adobe Acrobat 9.3 Full Installation** and select **Properties** from the menu.
3. In the **Scheduled task – Properties** window, select **Overview** in the left-hand navigation pane.
4. Next to **Currently selected targets**, click **Change**.
5. At the bottom of the screen, select **Wake up devices – not applicable to unmanaged devices**.
6. In the left-hand navigation pane, select **Delivery Method**.

- For **Delivery Type**, select **Push**.
 - For **Delivery Method**, select **Standard push distribution**.
7. Click **Save**.
 8. In the **Distribution** toolbox at left, select **Distribution Packages**.
 9. Move package from **My distribution packages** to **Public distribution packages**.

3.1.4 Create Shutdown Package with Adobe Software Package

In this step you'll create a shutdown package to go with your software distribution package.

1. Copy the file shutdown.exe from the client machine to your server (in the example we copy this file to [\\dc1\public\shutdown](#)). You can use the Windows XP shutdown.exe.
2. In the left-hand **Toolbox** menus, under the **Distribution** toolbox, select **Distribution Packages**.
3. Right click on **Public distribution packages** and select **New distribution package > New executable package** from the menu.
4. In the **Name:** field, change the name to **Deploy Adobe and Shutdown.exe**.
5. In the field **Description to show end users on download:** enter the following: **Installing Adobe Acrobat 9.3 and shutting down system**.
6. Under **Primary File**, enter the server and share where you copied the file shutdown.exe (in the example this is [\\dc1\public\shutdown](#)) and click **Go** (blue arrow), then select the file **shutdown.exe**.
7. In the left-hand navigation pane, select **Install/Uninstall Options**.
8. For the command line, enter **-s -f**.
9. In the left-hand navigation pane, select **Dependent packages**.
10. In the **Public Packages** pane at left, expand the **Public distribution packages** folder and select **Adobe Acrobat 9.3 full installation**.
11. Move the selected package to the **Dependent Packages** pane at right by clicking the **>>** button.
12. Click **Save** at bottom.

3.2 Deploy the Package and Enable the System to Wake Up

Follow the steps below to deploy the package to the managed system.

1. In the left-hand **Toolbox** menus, under the **Distribution** toolbox, select **Distribution Packages**.
2. In the Distribution Packages pane at lower right, right-click on **Deploy Adobe and Shutdown.exe** and select **Create Scheduled Task** from the menu.

3. In the **Devices > All devices** listings in the upper right pane, click the managed client's computer name (FLO1-MOBL49 in the example) and drag it down and drop it on the scheduled task listed in the Scheduled Tasks pane, as shown in Figure 3.

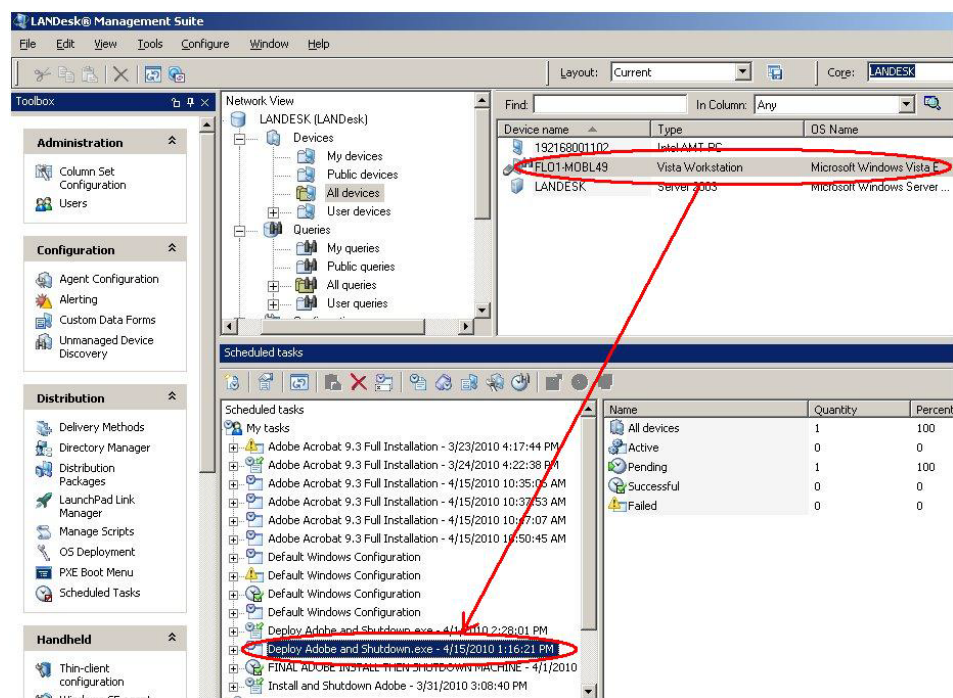


Figure 3: Click and Drag Computer Name and Drop on Scheduled Task

4. Expand the **Deploy Adobe and Shutdown.exe** task.
5. Right-click **Deploy Adobe and Shutdown.exe** and select **Properties** from the menu.
6. Click **Change** next to **Delivery Method** and set the **Delivery Type** to **Push:Standard Push Distribution** or simply **Push**. Do not change **Delivery Method** from its default value of **Bandwidth-aware Distribution**.
7. In the navigation pane at left, click **Target devices** and select **Wake up devices – not applicable to unmanaged devices** at the bottom of the screen.
8. In the navigation pane at left, click **Schedule task**.
9. Under **Start time**, select **Start now**.
10. If you want to deploy more than once, select **Deploy packages in this task even if they were previously deployed**.
11. Under **Schedule these devices**, select **Devices that did not succeed**.
12. To save your changes and deploy the package immediately, click **Save**.

At this point you have deployed the software update and system shutdown package to the selected managed client(s).