



Installing Intel® System Management Software v1.0 on Dual-Core Intel® Xeon® Processor-Based Servers

Revision 1.3

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Enterprise Platforms and Services Division - Marketing

Revision History

Date	Revision Number	Modifications
June 14, 2006	1.0	Initial Release
July 20, 2006	1.1	Updated Intel® Active System Console patch information
August , 2006	1.2	Updated Intel® Active System Console patch information, verified Linux
November, 2006	1.3	Limited this document to version 1.0 only. Added v1.0 to title and text

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1. Introduction

1.1 Purpose of this Document

This document was created to tell new users of Dual-Core Intel® Xeon® processor-based server board and systems the steps required to take advantage of Intel® System Management Software. Intel® System Management Software v1.0 (build 67i) is included in the server baseboard box. Alternatively, a CD of build 67i may be ordered by calling 1-800-548-4725 and requesting part number D46213-003.

An updated release of version 1.0 (build 67L_3) is available as a CD ISO image download from the Intel® web site at the following location. (<http://www.intel.com/support/motherboards/server/sysmgmt/>) The file name for the ISO image is ISM-8-6-100-67L_3.iso. This build includes the necessary updates to allow the software to be installed and configure a Dual-Core Intel Xeon Processor-based servers. While build 67L_3 of version 1.0 will operate normally, Users are recommended to also install the patches incorporated into LANDesk Software 8.6.1 Service Pack 1 (LD-861-SP1) and patches included in Intel System Management Software 1.0 Update June 2006 (SMS-10-Update-June-2006) as described in Section 5 of this document.

Specifically for Intel® Entry Server Board SE7230NH1-E server, if installing a local standalone copy of Intel® Active System Console, Intel recommends using the CD ISO download image of build 67L_3. The CD version accompanying the server board may not successfully install. Known issues are corrected with the 67L_3 download image.

As described in Section 4, you will not be able to use a proxy when running software update. If you must use a proxy when connecting to the Internet, then you will need to install build 67L_3 in that case also rather than using the update process.

Once Intel® System Management Software v1.0 is initially installed, several additional steps must be completed to fully support Dual-Core Intel® Xeon® Processor-Based Servers. Following the steps outlined in this document will provide fully functional system management and status reporting.

Periodic updates to this document will detail new patches available for the management software. New updates will be indicated in [blue](#) color.

2. Intel® System Management Software v1.0

2.1 Overview

Intel® System Management Software v1.0 is the latest generation of server management software that is provided to users of Intel® Server boards and systems. Version 1.0 has been available since January of 2006. The software combines LANDesk* System Manager with Intel® Remote System Console and Intel® Active System Console to provide a management solution for small, medium and large business environments.

One of the significant advantages of this release is the ability to support new server hardware by utilizing a software update process built into the management software. Users are not required to update to a completely new release of management software each time a new server board or system is released. Additionally, the update process allows for critical fixes to be installed immediately onto the system when they become available as apposed to waiting until the next version is released. This process also allows users to decide which updates they need and when the updates should be applied.

Terminology of Software Updates and Software Patches are used interchangeably in this document and reference the same process

2.2 Update variations

For purposes of software updates, understanding of the various usage models of Intel® System Management Software is required. Intel® Active System Console may be installed as a standalone package for a single server. This software is designed for ease of use and visual representation of server health. This software has a menu option for Software Updates. It automatically connects to the LANDesk* Software patch server and allows Users to select and update their installation.

For centralized management in larger environments, LANDesk* System Manager provides for vulnerability checks and updates. Updates for LANDesk* System Manager can further be broken down into updates for a single Administrator Core server or Managed Nodes.

The Administrator Core is always the primary control point for software updates. The Core runs a scan of available updates currently posted on the LANDesk patch server. Based on need, the IT administrator decides which patches are downloaded to the Core and then applied as needed to either the Core or the management nodes. Some patches are applied only to the Administrative Core Server. Other patches may only be required for the nodes that are managed by the Core server. Sections 4 and 5 of this document describes the steps to check for updates, download and apply the updates.

3. Required Updates

Appendix A of this document provides the most current list of all patches and updates available for Intel® System Management Software v1.0. The appendix will be updated from time to time as new updates are posted and available. Updated information will be highlighted in blue. Patches are only available using the update process described in this document. Except for roll-up Service Packs (described in the appendix) patches require the use of LANDesk System Manager or Intel® Active System Console. They cannot be downloaded or made available as standalone packages.

4. Updating Patches on Intel® Active System Console

This section assumes the user has installed the standalone version of the Intel® Active System Console. If the Intel® Active System Console was pushed from the Administrative core, use the software updates feature on the admin core system to apply patches on the managed device. See section 6.

1. Run the Intel® Active System Console
2. Select *Software updates*
3. Click *Check now* to download all the available patches. Note that on Linux systems you will be prompted for username and password. This is the credentials you used to login to the operating system.
4. Select the patches in the list that you want applied to your system. Intel® Recommends selecting all patches listed.

5. Click *Download and Install the update*. Note that proxy information cannot be added to this screen.
6. The patches have now been applied to your Intel® Active System Console.

Note: If at any time in the future the user installs the administrator core software and push agents to this device, the patches will need to be re-applied to the managed device using the software update feature on the admin core software.

Note: A proxy is not allowed if updating patches to the standalone Intel® Active System Console. A proxy is allowed for the software update feature in the LANDesk System Manager.*

5. Support for new Dual-Core Intel® Xeon® Processor-Based Servers

The following patches will be required on the administrator core before pushing agents to the Intel® Multi-Core Servers. If the LANDesk* System Manager is already managing these systems, the agents will need to be pushed again after the patches have been downloaded and applied. For instructions on how to download patches for the administrator core, refer to section 6. The instructions are general instructions and show how to remediate both the administrator core and all managed devices. The patches listed below are only needed for the administrator core. When following these steps, other patches than those listed below may be listed. Intel® recommends that you download and apply all patches that the software recommends as new critical patches may be added at any time.

ID	Title
LD-861-SP1	LANDesk Software 8.6.1 Service Pack 1
Intel-SMS-10-Update-June-2006	Intel System Management Software 1.0 Update June 2006

The first patch in this list (LD-861-SP1) is also available as a download from the LANDesk web site. To download this patch, use the following URL: <ftp://ftp.landesk.com/support/ldms8.61/LD-861-SP1-build21.zip>. Intel recommends using this method rather than the Software Update feature in the LANDesk* System Manager. To run the standalone SP1 install, the user will need to follow the following steps.

1. Download the zip mentioned above to the administrator core.
2. Close down the LANDesk* System Manager and any Intel® Remote System Console windows.
3. Open the zip file and run setup.exe from the \LD861-SP1-Core subdirectory.
4. Follow instructions on the screen.
5. The standalone install will reboot the administrator core when completed.
6. Re-push agents to all managed devices.

Note: This section only applies to patches required for the administrator core to support the Dual-Core Intel® Xeon® Processor-Based Servers. Additional patches are also needed for the standalone version of the Intel® Active System Console to support these servers. Follow the steps in section 4 to ensure all patches to support these servers have been applied to the standalone Intel® Active System Console. Refer to Appendix A for a list of all patches intended for the standalone version of the Intel® Active System Console.

6. Updating Patches on LANDesk* System Manager

This document assumes that the LANDesk* System Manager has been installed on your administrator core.

6.1 Step 1. Push minimal agents to the administrator core.

In order for any patches to be applied to the admin core, the LANDesk* System Manager running on the core must have minimal agents pushed to itself. By default, after installing the LANDesk* System Manager, the admin core machine is listed under my devices. However, the device is not currently being managed. The following are the required steps to install at least the minimal agents on the admin core.

1. Select the admin core under my devices and click *target*. The admin core should be added to your target list.
2. Go to agent configuration and create a new configuration. Give the configuration a Configuration name and click OK.
3. Select the newly created configuration and then select the *Edit* button on the top of the screen.
4. Make sure that at least *Software Updates* is selected. *Note: User may select other features but they are not required to install patches on the core.*
5. Select *Reboot if necessary after server configuration*.
6. Click the *Save Changes* button and then click *Close*.

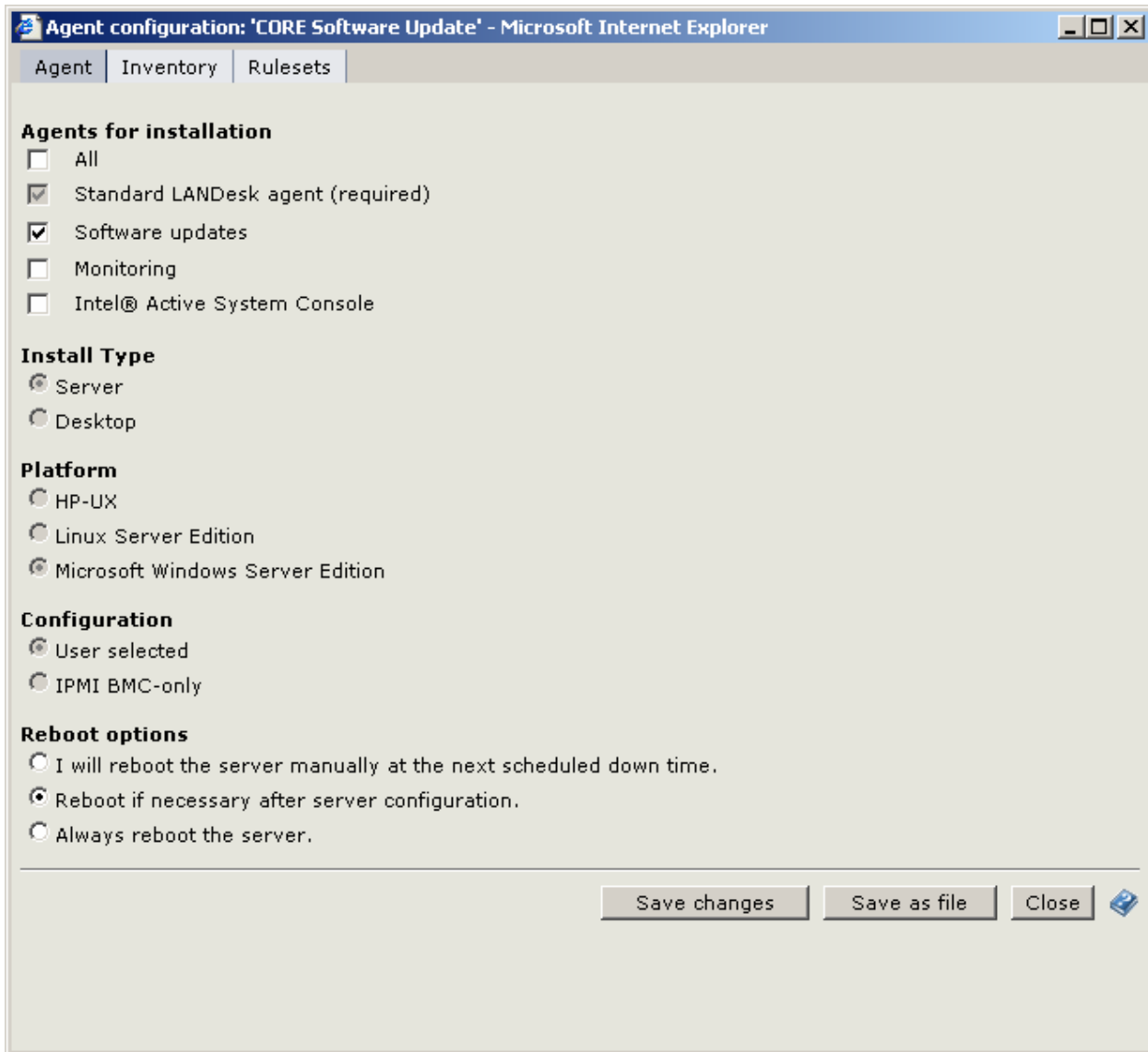


Figure 1. Agent Configuration Dialog

7. Click the *Schedule Task* button at the top of the screen.
8. Click the *Change* button after Currently selected targets.
9. Click the *Add target list* button. This should add the core server to the targeted devices.
10. Click *Schedule Task* on the left pane.
11. Click *Start now* on the right pane and then click the save button.
12. Click the *configuration tasks* button and periodically click the *Refresh* button until the status shows *All Completed*.

6.2 Step 2. Download the patch definitions

The user must download every definition from the patch server. This will include every patch regardless as to whether the user will ever need them.

1. Go to *Software Updates* on the LANDesk* System Manager
2. Click the *Update* button at the top of the screen.
3. Make sure both *LANDesk Software Updates* and *Intel Software Updates* are selected.
4. Select the language of choice.
5. Make sure that *Put new definitions in "Scan" group* is selected
6. Make sure that *Download patches for definitions selected above* is NOT selected.
7. If your internet access requires a proxy, click on the *Proxy Settings* tab and enter your proxy address and port.
8. Click *Update Now* to download the patch definitions.

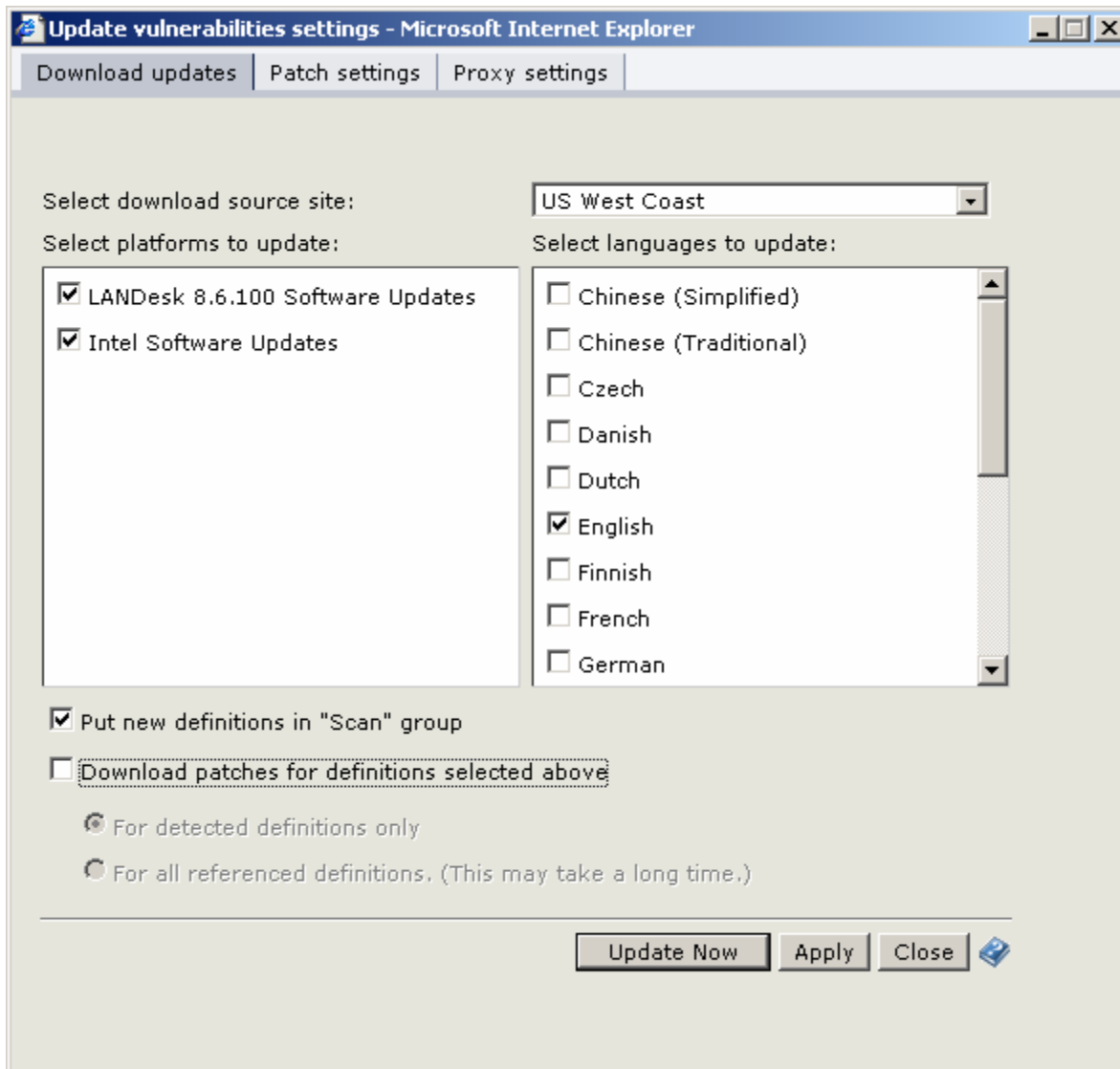


Figure 2. Update Definitions Dialog

9. You should see a new dialog open and text indicating that the patch definitions are updating.
10. When the process has completed, click the *Close* button.
11. Click *Scan* in the upper middle pane.
12. You should now see all the definitions listed.
13. If this is the very first time the user has gone through the steps of downloading patches, they will need to complete steps 1-12 a second time. Follow these steps again to make sure all definitions have been correctly downloaded.

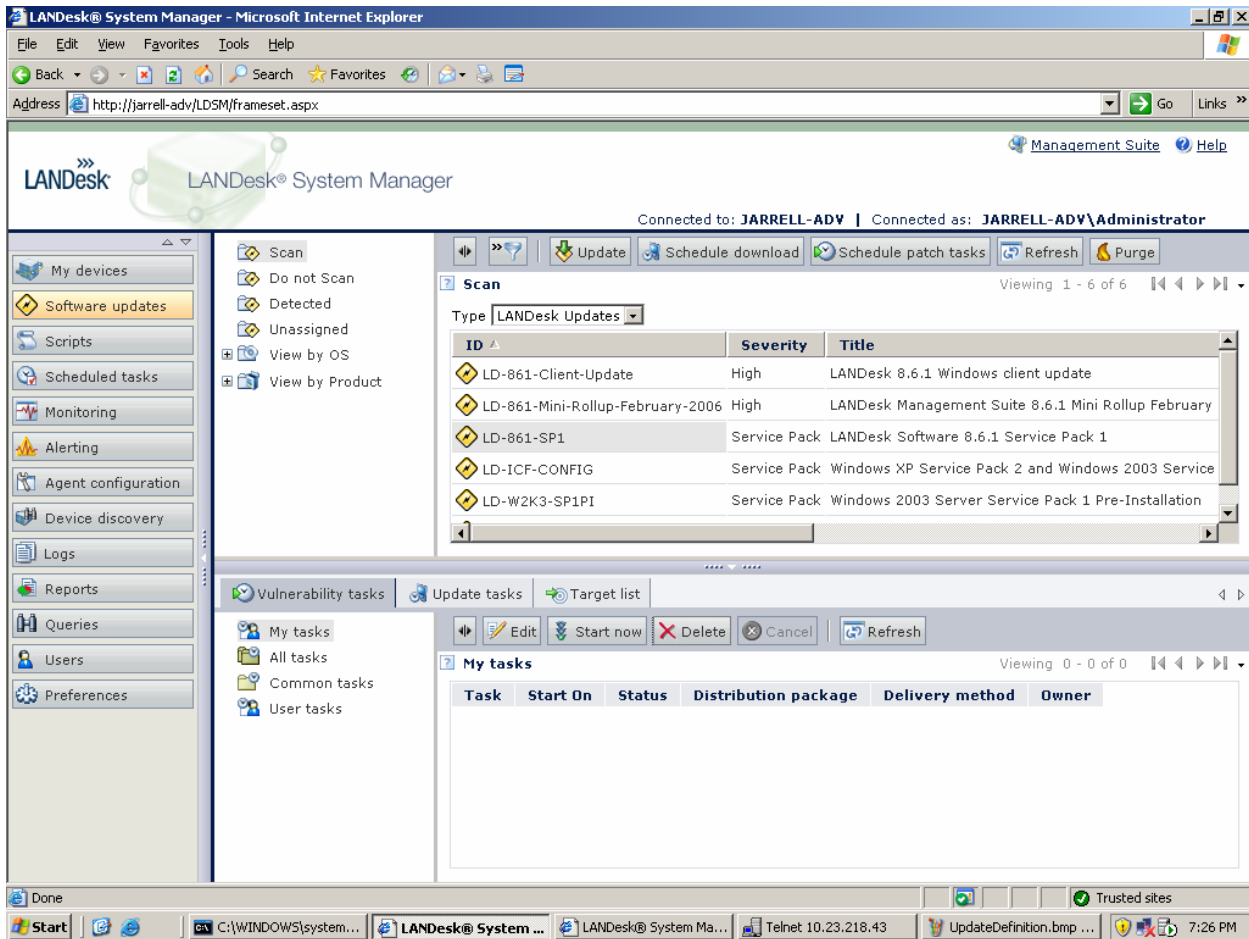


Figure 3. Software Update Page

Note: For each patch definition, you can double click on the patch to retrieve information. It is on this dialog you can choose to download the patches. However, this is not necessary as a step below will show an easier way to download all needed patches at one time.

Note: By default only patches for LANDesk are displayed. Choose Software Updates on the drop down menu at the top of the screen to see Intel patches.*

Note: Regarding patch names, if the patch is listed under LANDesk updates, this is a LANDesk patch. This software does not have the capability of applying Microsoft patches even though the title may imply that the patch is a Microsoft* patch.*

Note: While it is always a good idea to complete this step twice, the user can look at the patch definitions downloaded after the 1st attempt. If the ID of the definitions that were downloaded above show 861 as compared to 86, this step is not necessary and the user can proceed to step 4. This is only necessary with Intel® System Management Software 1.0. All future releases will not require this additional step.

6.3 Step 4. Perform vulnerability scan on all systems

At this time, the user will need to check all systems including the admin core to see if the patch definitions that were just downloaded are needed on the systems.

1. Go to *My Devices* and target the devices you would like to perform the vulnerability scan on. Make sure your admin core is targeted if you want to install patches intended for the admin core.
2. Go to *Software Updates* page
3. Select *Schedule patch tasks* button on the top of the screen.
4. Make sure *show progress when running* is NOT selected.
5. Click OK

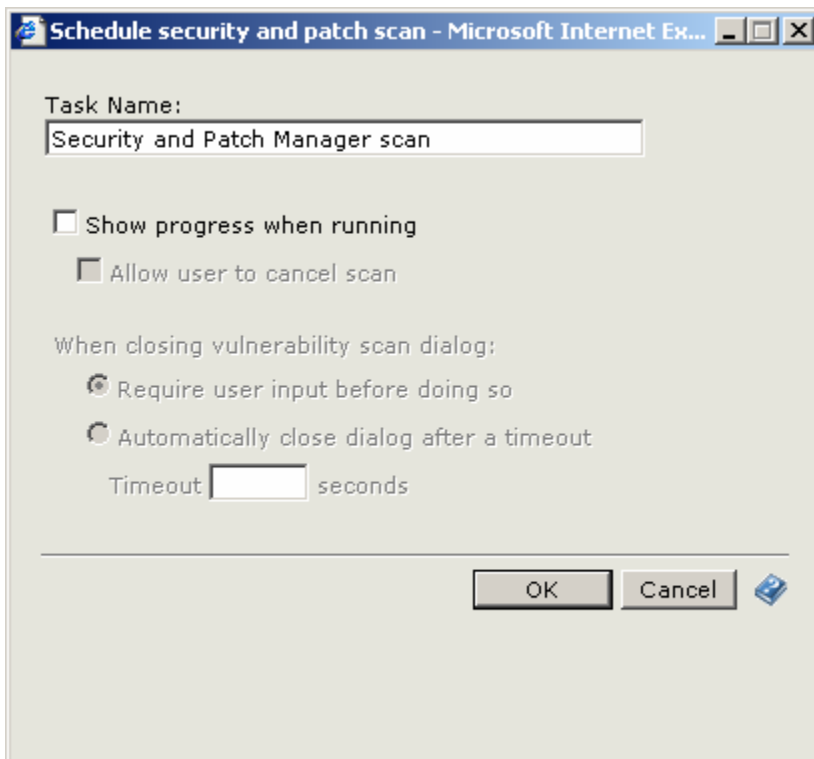


Figure 4. Schedule Security and patch scan dialog

6. A new dialog will open up on the screen.
7. Click the *Change* button next to Currently selected targets
8. Click *Add target list* button on the top of the dialog.
9. Click *Schedule task* in the left pane.
10. Select *Start Now* and then click the *Save* button.

11. Click the *Vulnerability tasks* button.
12. Periodically check the status of the task by clicking *refresh*.
13. Once the task has completed, you can check the results by selecting *Detected* on the upper middle pane on the screen.

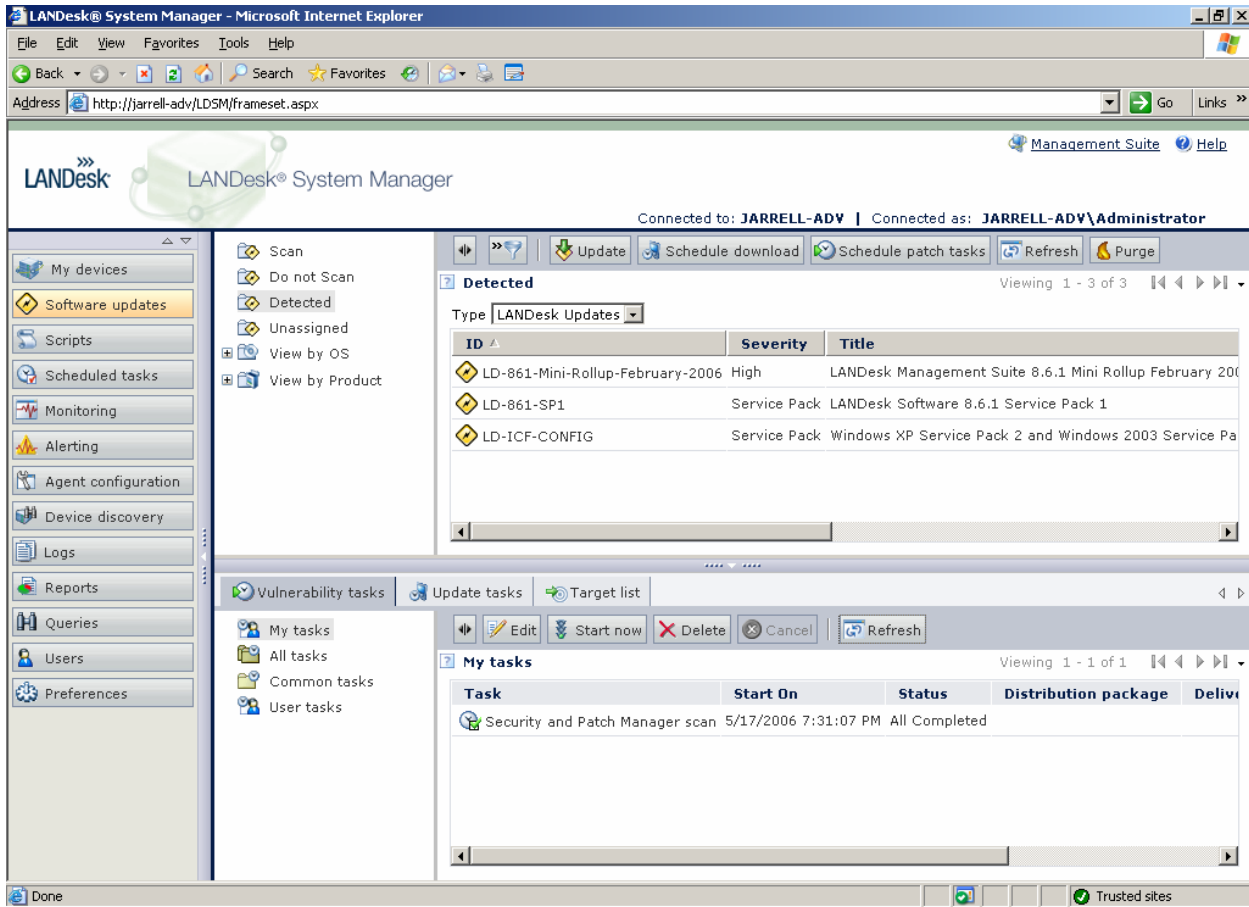


Figure 5. Software Updates – Detected Patches

Note: If you right click on one of the detected patch definitions, you will see a sub menu. If you click on View affected devices you will receive a list of all devices that will need this patch. This is for informational purposes only.

6.4 Step 5. Download the patches that need to be applied.

At this time, you will need to download the patches that will need to be applied to the devices. While the user can double click on each patch in the detected list and download the individual patches, the following instructions will show how to do this as one step.

1. Go to the *Software Updates* page
2. Select the *Update* button on the top of the screen.

3. Again make sure both *LANDesk Software Updates* and *Intel® Software Updates* are selected as well as the language of choice.
4. Select *Download patches for definitions selected above*.
5. Make sure *For detected definitions only* is selected.
6. Make sure your Proxy Settings tab is filled out if needed and click *Update Now*.

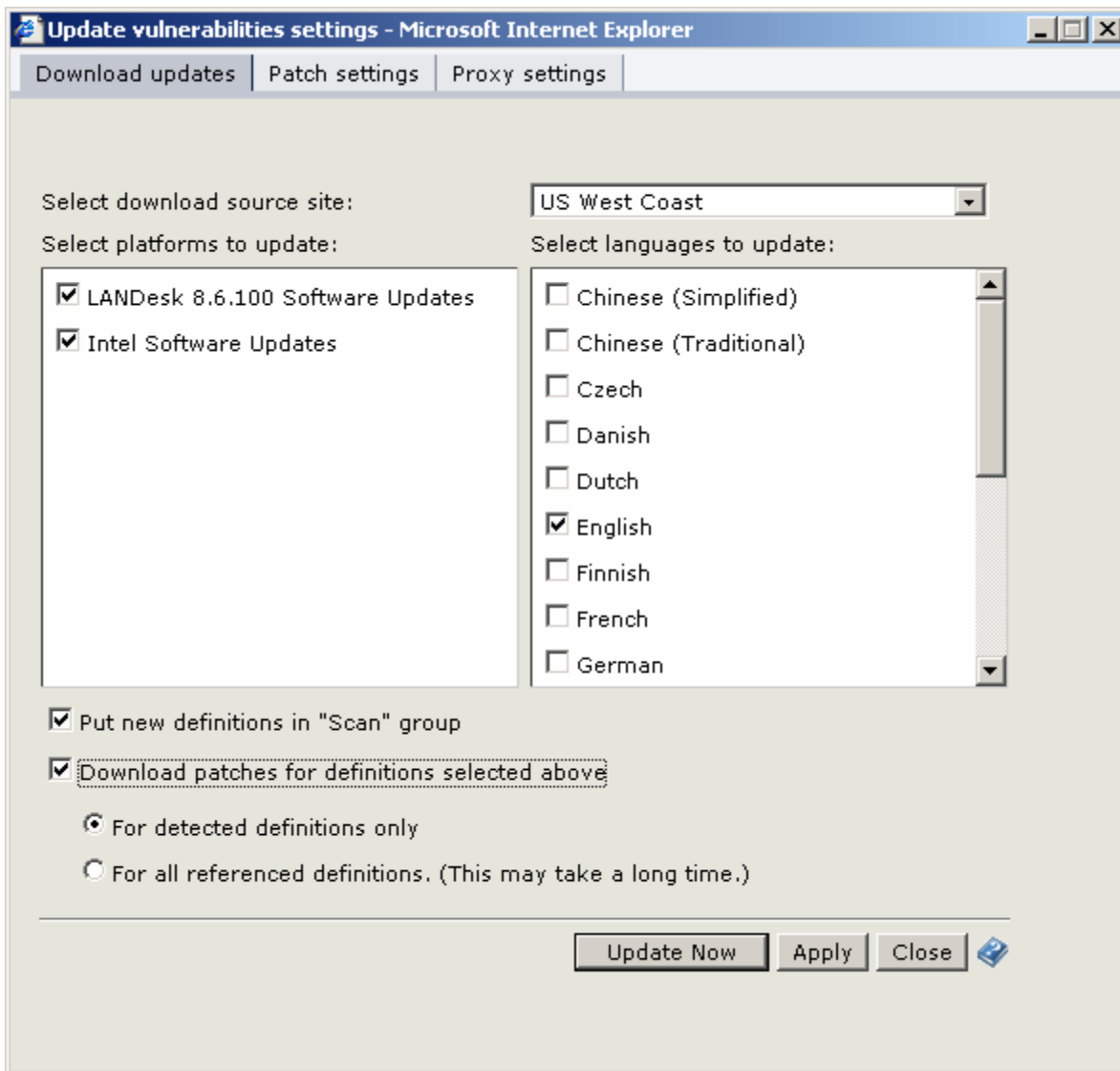


Figure 6. Upload Dialog

7. You should see a dialog pop up again. No new definitions will be downloaded, but the dialog should start downloading the actual patches at this time.

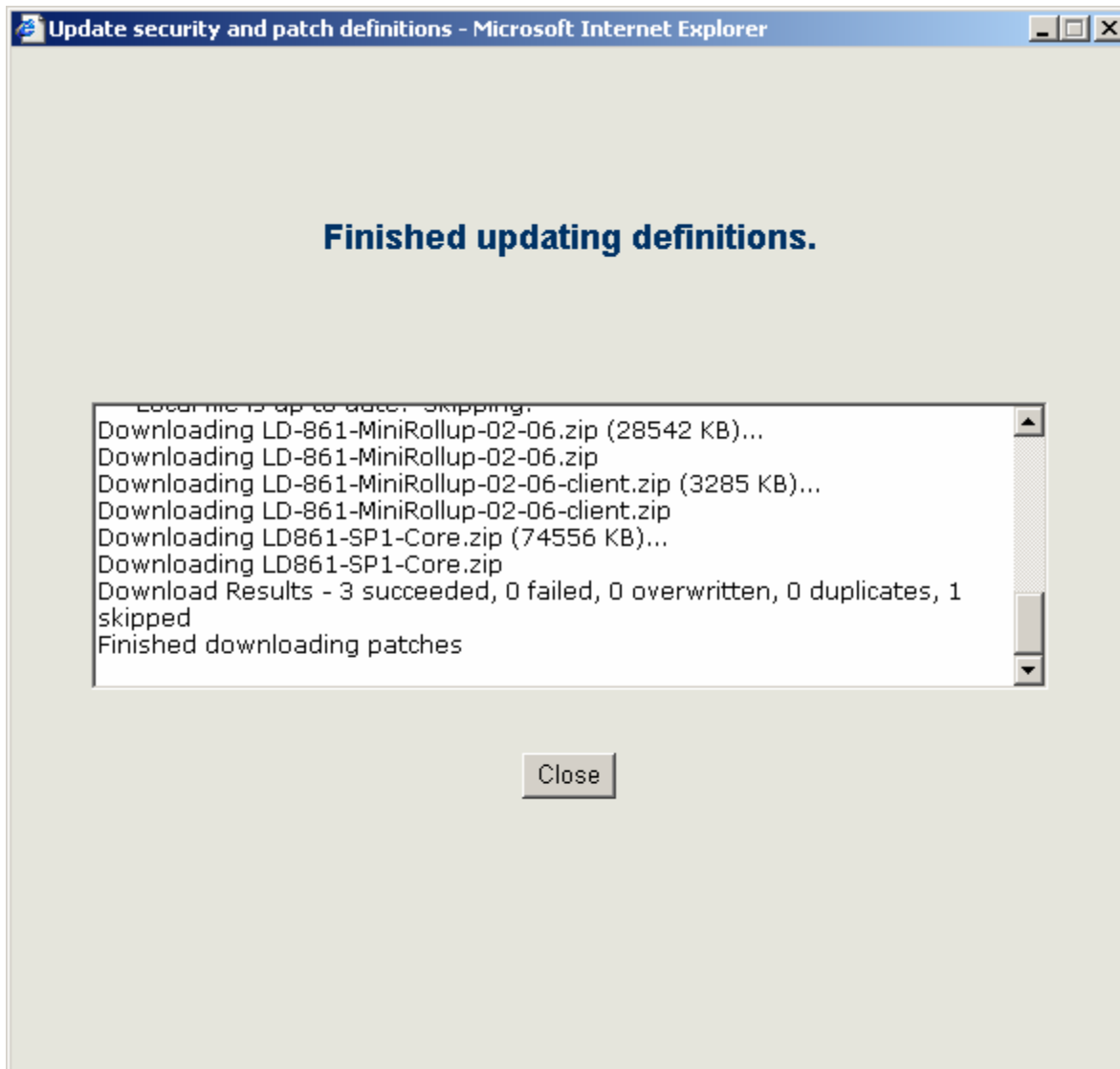


Figure 7. Update Security and Patch definitions dialog

8. Close the dialog.

Note: It is possible to schedule this download at a later time. This may be necessary because of the large size of the patches and processing and network bandwidth required to download these patches. To do this select Schedule Download button on the top of the screen. The user will first need to make sure that the check box "Download patches for definitions selected above" is selected to download patches for affected devices. You can then schedule the download at any time in the future.

6.5 Step 6. Push the patches to targeted devices.

Now that the definitions have been downloaded, vulnerability scan completed and patches downloaded, it is time to deploy these patches to all devices. The following process will need to be completed for each of the detected patches.

1. Right click on the first patch in the detected list.
2. Select *Create remediation tasks* from the sub-menu. A new dialog will open.
3. Select *Copy affected computers to the target cart*. This will cause all affected systems for this patch to be added to the target list.
4. Make sure *Show progress when running* is NOT selected.
5. Click the OK button.

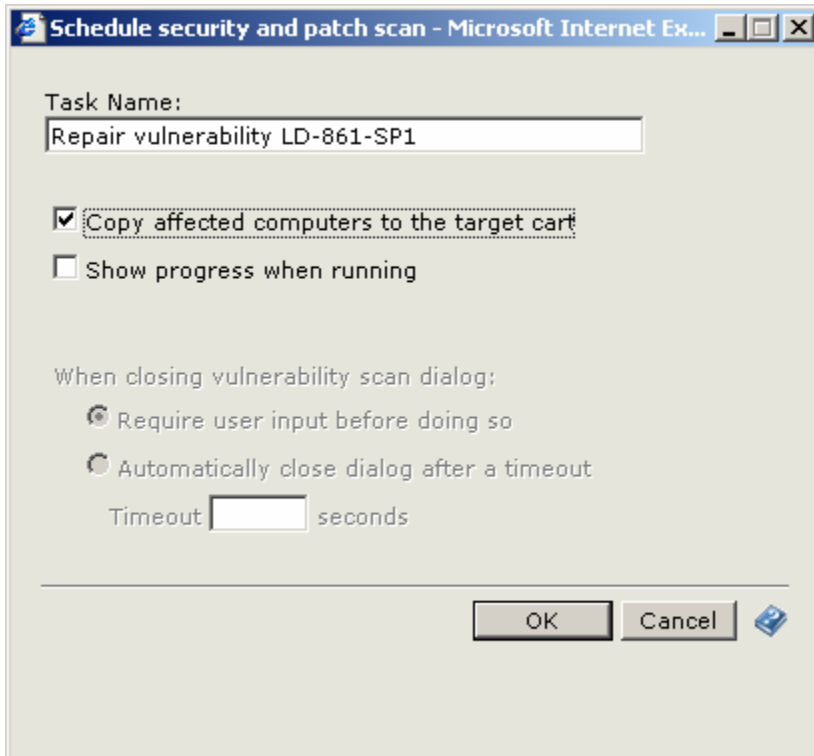


Figure 8. Schedule security and patch scan

6. A new dialog box will open.
7. Click the *Change* button next to Currently selected targets.
8. Click the *Add target list* button. Note that in the above step you copied all systems to the targeted list, but did not actually add them to the task so this step is required.
9. Click *Schedule task* in the left pane.
10. Select *start now* and click the *Save* button.
11. Select the *Update tasks* on the bottom pane of the screen.

12. You should now see a new task running. Periodically check the status of the task by clicking the *refresh* button.
13. If a reboot was required, go back to the Software Updates page after the reboot and click on Update tasks on the bottom pane of the screen. The status may be either partially completed or none completed in this case. Repeat 1-12 to finish the task after the reboot.
14. In rare cases, a 2nd reboot may occur. If this happens, the user will need to repeat steps 1-12 a third time. After every reboot click on the Update tasks on the bottom pane of the screen to check the status of the task.
15. Once the task is completed, the status will be *all completed*. This patch has been applied to all systems that need it including the core.
16. Right click on the next patch in the detected list. Follow steps 2-15 to apply the patch and then repeat for each patch in the list.
17. Now select *Software Updates* on the drop down menu at the top of the screen for a list of Intel patches in the detected list. Repeat steps 1-15 for each Intel® patch.

Appendix A

This appendix provides a list of software updates that are currently available from the LANDesk Patch server. The appendix will be updated routinely to reflect new updates as they become available. New updates since the previous posting will be highlighted in [Blue](#). A table is used to list current updates.

Occasionally LANDesk will roll up all current patches into one Service Pack. The Service Pack provides the User with a single download rather than multiple individual patches. The Service Pack is unique in that it may be downloaded using the normal update process or it may be downloaded from the LANDesk ftp site. If downloaded from the ftp site, Users should note that the Service Pack includes updates for all LANDesk software and not just LANDesk System Manager. Follow the instructions in step 5 for proper installation of the Service Pack.

Note: Intel® recommends downloading LANDesk Service Pack 1 from the LANDesk ftp site rather than using the Administrator Core Software Update process. Both processes are described below and can be used as appropriate.

Using the LANDesk Patch process on the Administrator Core

See section 6 of this document for full details of using the LANDesk patch process. This section of the appendix is provided to give additional information in regards to Service Pack 1.

Be sure the steps outlined in section 6.1 of this document have been completed. The Administrator Core, at a minimum, needs to have the Software Updates agent installed.

Click on the *Update* button as seen on the *Software Updates* page of LANDesk System Manager. The initial patch definitions will be displayed. When running this process for the first time the version of software is not completely identified and a definition for version 8.6 is displayed. Users **MUST** execute the *Update* button a second time for all definitions to be found and listed. Running the *Update* a second time will provide a definition for version 8.6.1 as well as at least one more new definition.

Once the correct definitions have been determined, Service Pack 1 and other potential updates will be available. Follow the steps in section 6.3 to perform the vulnerability scan and download the available patches.

After the download, Service Pack 1 can be applied to the Administrator Core server. Once the service pack has been applied the status may indicate that the update failed. This is expected behavior. Repeat section 6.5 and check the update status task. A 3rd repeat of section 6.5 may be required in some cases. It will now show a successful update. Push agents to any new or existing managed nodes as needed.

Table 1 provides a list of issues resolved for LANDesk System Manager using Service Pack 1. A complete list of issues for all LANDesk products is available in the downloaded package, `readme_review.txt`

Table 1 – Service Pack 1 contents

Patch Name	File(s) Affected	Date Available	Description
LD-861-SP1 (LANDesk Software 8.6.1 Service Pack 1)	BMCUtility.dll monitoring.tar.gz	May, 2006	Support for Dual-Core Intel® Xeon® Processor-Based Servers
	alertservice.exe		Alert Service query string change to prevent insertion attack
	LANDesk.ServerInfo.Business.dll		SE7320EP2 server unable to change sensor thresholds
	LANDesk.ServerInfo.Business.dll LANDesk.ServerInfo.UI.dll		Reboot option for Serial Over LAN checkbox is not filtered out for blade servers. It should not be displayed.
	LANDesk.ServerInfo.UI.dll		Linux 'BMC configuration' link brings up 'Server error'.
	LANDesk.ServerInfo.UI.dll		Missing tags in provider XML causing User Interface pages to crash
	monitoring.tar.gz		The BMC password is not getting set on Dual-Core Intel® Xeon® Processor-Based Servers
	LANDesk.ServerInfo.Business.dll LANDesk.ServerInfo.UI.dll LANDesk.ServerInfo.Data.dll		Power options page crashes in ServerInfoView
	LANDesk.ServerInfo.Business.dll LANDesk.ServerInfo.UI.dll		Numeric sensors surrounded by bad "unfound" text
	monitoring.tar.gz		SR4850HW4/M and SR6850HW4/M Running Red Hat Linux are not responding to Power-On requests

Updates needed for Intel® Active System Console

The updates included in the following table are needed when the Intel® Active System Console is installed as a standalone application. The server is not managed by a LANDesk* System Manager Administrator Core.

Table 2 – Patch Updates for local install of Intel® Active System Console (Windows)

Patch Name	File(s) Affected	Date Available	Description
IASC LDPCClient Update June 2006	Ldpclient.exe	July, 2006	Initial patch required to enable Software Updates – Reboot required before doing a 2 nd scan for the “IASC 10W Update June 2006”. The patch will attempt an automatic reboot. If the system does not automatically reboot, the User will need to implement manually.
IASC 10W Update June 2006 (June 2006 Update with added platform support.)	ldselmon.exe	July, 2006	Summary Page Health showing Warning status when it should be Critical status
	ldselmon.exe		Add polling to hardware sensors that have entered a non-critical or critical state rather than relay only on SEL deassert messages
	disabled.ruleset.monitor.xml masterconfig.ruleset.monitor.xml LDIPMI.exe ldselmon.exe IPMIRender.exe LDOOBIPMI.exe SELBackup2DB.exe		Archived hardware System Event Log (SEL) events not consistently displayed in conjunction with actual SEL events
	cismbios.sys		Agent can't be successfully installed onto SR1475NH1-E system

Table 3 – Patch Updates for local install of Intel® Active System Console (Linux)

Patch Name	File(s) Affected	Date Available	Description
Ldsmmonitor 8.6-110.67	Ldsmmonitor-8.6-110.67.rpm	July, 2006	June 2006 update for Ldsmmonitor. Fixes: polling errors on certain IPMI sensors, makes hardware events consistent with actual SEL, hardware RAID configuration, false 'Drive Full' errors, and corrects display errors in hard drive information.
walkup core server 8.6-108.67	walkup-core-srv-8.6-108.67.rpm		June 2006 update to the Walkup Core server. Fixes a problem where some hardware events were not consistent with actual SEL.
ldiscan 8.6-1.28	ldiscan-8.6-1.28.rpm		June 2006 update inventory scanner. Fixes a potential error when polling hardware

		RAID controllers.
mgmtutils 8.6-110.67	mgmtutils-8.6-110.67.rpm	June 2006 update for LANDesk management utils. Fixes a problem where the IASC homepage was taking longer to load.

Updates for LANDesk System Manager and Intel® Remote System Console

The updates included in the following table are needed to update the Administrator Core server. This updates may then be pushed or pulled to various managed nodes under the control of the Core server. These updates are needed in addition to Service Pack 1.

Table 4 - Patch Updates for LANDesk* System Manager and Intel® Remote System Console

Patch Name	File(s)	Date Available	Description
SMS-10-Update-June-2006 (Intel System Management Software 1.0 Update June 2006)	Intel.msi *.mst	July, 2006	Updated dpcproxy and dpccli for Dual-Core Intel® Xeon® Processor-Based Servers SOL / NAK issue. Problem resolved when dpcproxy service is not stopped or uninstalled when User uninstalls or upgrades
	frameset.aspx LANDesk.WebConsole.Common.dll LANDesk.WebConsole.Framework.UI.dll		System Manager title bar isn't able to be rebranded.
	alertservice.exe		Administrator Core health for a managed node does not agree with local health on the managed node
	LANDesk.ServerInfo.UI.dll baseclient.tar.gz		Viewing memory page in Linux console shows DBNULL error
	monitoring.tar.gz		Linux Intel Remote System Console home page taking long time to load unless Users delete the alert log file
	ldselmon.exe monitoring.tar.gz		Add polling to hardware sensors that have entered a non-critical or critical state rather than relay only on SEL deassert messages
	disabled.ruleset.monitor.xml masterconfig.ruleset.monitor.xml LDIPMI.exe ldselmon.exe IPMIRender.exe monitoring.tar.gz walkup.tar.gz LDOOBIPMI.exe SELBackup2DB.exe		Archived hardware System Event Log (SEL) events not consistently displayed in conjunction with actual SEL events
	cismbios.sys		Agent can't be successfully installed onto SR1475NH1-E system
	baseclient.tar.gz monitoring.tar.gz		push/pull of management agents to a Linux server with Hardware RAID5 configured crashes the system.
	baseclient.tar.gz		Administrator Core system is unable to push Linux management agents to targeted servers

Reference Documents

Refer to the following documents for additional information:

- *LANDesk* System Manager 8 Installation and User Guide*
- *LANDesk System Manager 8.6 User's Guide.*
- *Intel® Active System Console Help*