Apple Remote Desktop 3 Update

Nader Nafissi
Product Manager
Server and Storage Software Group
Worldwide Product Marketing
Agenda

- Apple Remote Desktop Overview
- Apple Remote Desktop 3.1 Update
- Additional Resources
- Q & A
Apple Remote Desktop Overview
Personal Computers
Managed computers have 40% lower TCO

Source: Summary TCO Analysis for Windows XP: Table 1 and Table 3, “Use Best Practices to Reduce Desktop PC TCO, 2005-2006 Update”, 8 December 2005, Michael A. Silver, Federica Troni, Gartner, Inc.
Desktop Management

Software Distribution

Asset Management

Remote Administration

Remote Assistance

Automation

Setup
Apple Remote Desktop 3
Desktop management made easy
Desktop Management

Software Distribution

Asset Management

Remote Administration

Remote Assistance

Automation

Setup
Software Distribution
Simplified software deployment
Software Distribution

Simplified software deployment
Software Distribution

Install packages

- Package requires restart
- Add one or more packages
- Automatically restart computer after package is installed
- Set network bandwidth usage
- Use Task Server for AutoInstall
- Optionally encrypt data
- Target computers
- Schedule installation for later
AutoInstall

Ideal for software installation on mobile computers

1 Administrator needs to install software package on Macs
AutoInstall

Ideal for software installation on mobile computers

1 Administrator needs to install software package on Macs

2 Package is first copied to Task Server
AutoInstall
Ideal for software installation on mobile computers

1. Administrator needs to install software package on Macs

2. Package is first copied to Task Server

3. Package is then copied and installed on Macs
AutoInstall

Ideal for software installation on mobile computers

1. Administrator needs to install software package on Macs

2. Package is first copied to Task Server

3. Package is then copied and installed on Macs

4. If computer is offline, package is queued until it is available
AutoInstall

Ideal for software installation on mobile computers

1. Administrator needs to install software package on Macs

2. Package is first copied to Task Server

3. Package is then copied and installed on Macs

4. If computer is offline, package is queued until it is available
Software Distribution

Copy files and folders

- Files and folders
- Destination
- Set network bandwidth usage
- Target computers
- Schedule file copy for later

Specify user and group ownership
Optionally encrypt data
## Up to 11x Faster Than Version 2.2

Network copy performance: 1000BASE-T

<table>
<thead>
<tr>
<th></th>
<th>Remote Desktop version 2.2</th>
<th>Remote Desktop version 3</th>
<th>(\Delta)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copy Microsoft Office folder (528MB)</td>
<td>282</td>
<td>26</td>
<td>10.8x</td>
</tr>
<tr>
<td>Time to copy to 50 clients (seconds)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copy incompressible test file (1024MB)</td>
<td>477</td>
<td>43</td>
<td>11.1x</td>
</tr>
<tr>
<td>Time to copy to 50 clients (seconds)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Testing conducted by Apple in December 2005 using prerelease Remote Desktop software. Target machines were 50 Power Mac computers with dual 2.5GHz G5 processors, 2GB of RAM, and Mac OS X v10.4.3.
Up to 5x Faster Than Version 2.2

Network copy performance: 100BASE-T

<table>
<thead>
<tr>
<th></th>
<th>Remote Desktop version 2.2</th>
<th>Remote Desktop version 3</th>
<th>Δ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copy Microsoft Office folder (528MB)</td>
<td>273</td>
<td>52</td>
<td>5.2x</td>
</tr>
<tr>
<td>Time to copy to 50 clients (seconds)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copy incompressible test file (1024MB)</td>
<td>472</td>
<td>103</td>
<td>4.6x</td>
</tr>
<tr>
<td>Time to copy to 50 clients (seconds)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Testing conducted by Apple in December 2005 using prerelease Remote Desktop software. Target machines were 50 Power Mac computers with dual 2.5GHz G5 processors, 2GB of RAM, and Mac OS X v10.4.3.
# Software Deployment

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Package Install</strong></td>
<td>Install single or multiple Apple .mpkg and .pkg files.</td>
</tr>
<tr>
<td><strong>File Copy</strong></td>
<td>Copy files and folders to and from. Files can be copied to predetermined location or specified location.</td>
</tr>
<tr>
<td><strong>Delete Files</strong></td>
<td>Delete files and folders from multiple Mac OS X computers.</td>
</tr>
<tr>
<td><strong>Scheduling</strong></td>
<td>Schedule tasks for future date and time. Specify whether to repeat on a given frequency.</td>
</tr>
<tr>
<td><strong>AutoInstall</strong></td>
<td>Install package software using Task Server. Software is staged for computers that are offline.</td>
</tr>
<tr>
<td><strong>Performance</strong></td>
<td>Up to 11x faster file copy performance compared to version 2.2.</td>
</tr>
</tbody>
</table>
Desktop Management

- Software Distribution
- Asset Management
- Remote Administration
- Remote Assistance
- Automation
- Setup
Asset Management

Detailed reports on all your Mac OS X systems
Asset Management

Detailed reports on all your Mac OS X systems
Comprehensive Reports

- Storage
- Network Interface
- FireWire Device
- USB Device
- Memory
Comprehensive Reports

System Overview
Administrator Access
File Search
Software Difference
PCI Card
Comprehensive Reports

Remote Spotlight Search
User History Report
Application Usage Report
Network Performance
Software Version
Remote Spotlight Search

Perform actions on selected items
Filter locations
Refine search options
Target computer list
Search results view

Search field

Search field

Search results view
User History Report

- Per-computer-user activity reports
- View user login session information
  - User name
  - Login time
  - Logout time
  - Login method
Application Usage Report

- Per-computer-application statistics
  - Name of application
  - Launch date
  - Total running time
  - Time as frontmost application
  - User who launched application
- Allows administrators to ensure compliance with software licenses
- Helps administrators identify unauthorized use of applications
Advanced Reporting
Ideal for managing mobile computers
Advanced Reporting
Ideal for managing mobile computers

1. Install Apple Remote Desktop 3 on a server
Advanced Reporting
Ideal for managing mobile computers

1. Install Apple Remote Desktop 3 on a server

2. Mac systems are configured to report information to server
Advanced Reporting
Ideal for managing mobile computers

1. Install Apple Remote Desktop 3 on a server

2. Mac systems are configured to report information to server

3. Administrator retrieves report data from server
Advanced Reporting
Ideal for managing mobile computers

1. Install Apple Remote Desktop 3 on a server

2. Mac systems are configured to report information to server

3. Administrator retrieves report data from server

4. Data is available even if computer is offline
# Asset Management

<table>
<thead>
<tr>
<th>Software Reports</th>
<th>Software Version, Software Difference, File Search</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware Reports</td>
<td>System Overview, Storage, Memory, PCI Cards, Network Interfaces, USB and FireWire Devices</td>
</tr>
<tr>
<td>Offline Reporting</td>
<td>Search and browse information on Mac OS X systems regardless of their presence on the network.</td>
</tr>
<tr>
<td>Scheduling</td>
<td>Schedule tasks for future date and time. Specify whether to repeat on a given frequency.</td>
</tr>
<tr>
<td>SQL Database</td>
<td>Data stored in SQL database for fast and easy retrieval.</td>
</tr>
<tr>
<td>Data Export</td>
<td>Export results of reports using comma- or tab-separated text file.</td>
</tr>
<tr>
<td>Remote Spotlight Search</td>
<td>Use Spotlight search on remote Mac OS X Tiger computers and view results on your computer.</td>
</tr>
<tr>
<td>User History Report</td>
<td>View detailed information on users of your remote computers.</td>
</tr>
<tr>
<td>Application Usage Report</td>
<td>View detailed information on applications used on your remote computers.</td>
</tr>
</tbody>
</table>
Desktop Management

**Software Distribution**

**Asset Management**

**Remote Administration**

**Remote Assistance**

**Automation**

**Setup**
Remote Administration
Control all of your Mac systems from your Mac
Remote Administration
Control all of your Mac systems from your Mac
Remote Administration
Control Mac OS X computers to perform administrative tasks

Open Items
Logout Users
Sleep
Empty Trash
Send UNIX
Remote Administration
Control Mac OS X computers to perform administrative tasks

Open Applications
Restart
Wake
Lock Screen
Remote Administration

Remote shell scripts

Type in UNIX shell scripts or UNIX commands.

Show all output of the command.

Schedule execution of UNIX shell script for later.

The Send UNIX Task Template is populated with 30 sample UNIX commands and scripts.

Use included command-line tools networksetup and systemsetup.

The Send UNIX Command window displays a list of all network services on the computer's hardware ports, and allows you to run UNIX commands with options to show all output and schedule execution for later.
Remote Shell Scripts

Results with Display All Output option

<table>
<thead>
<tr>
<th>Target Computer</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing 7</td>
<td>Built-In FireWire</td>
</tr>
<tr>
<td>Marketing 5</td>
<td>&quot;AirPort&quot;</td>
</tr>
<tr>
<td>Power Mac 8</td>
<td>&quot;AirPort&quot;</td>
</tr>
<tr>
<td>Power Mac 3</td>
<td>&quot;AirPort&quot;</td>
</tr>
<tr>
<td>Power Mac 2</td>
<td>&quot;AirPort&quot;</td>
</tr>
</tbody>
</table>

Marketing 7 (192.168.42.165)

An asterisk (*) denotes that a network service is disabled.
- Internal Modem
- Bluetooth
- Built-In Ethernet
- Built-In FireWire
- AirPort
- Built-In FireWire

Marketing 5 (192.168.42.146)

An asterisk (*) denotes that a network service is disabled.
- Internal Modem
- Bluetooth
- Built-In Ethernet
- Built-In FireWire
- AirPort
- Built-In FireWire

Power Mac 8 (192.168.42.229)

An asterisk (*) denotes that a network service is disabled.
- Built-In Ethernet
- *Built-In FireWire
- *AirPort

Power Mac 3 (192.168.42.129)

An asterisk (*) denotes that a network service is disabled.
- Built-In Ethernet
- *Built-In FireWire
- *AirPort

Power Mac 2 (192.168.106.78)
## Remote Administration

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Send UNIX</td>
<td>Execute UNIX shell scripts or UNIX commands simultaneously on remote Mac OS X systems.</td>
</tr>
<tr>
<td>Set Startup Disk</td>
<td>Specify startup disk of remote Mac OS X computers to be local or network volumes.</td>
</tr>
<tr>
<td>System Control</td>
<td>Sleep, wake, restart, or shut down. Rename computer. Empty Trash. Lock and unlock screens.</td>
</tr>
<tr>
<td>User Control</td>
<td>Log out users. Open files or applications.</td>
</tr>
<tr>
<td>Scheduling</td>
<td>Schedule tasks for future date and time. Specify whether to repeat on a given frequency.</td>
</tr>
<tr>
<td>Task Templates</td>
<td>Save task settings and configurations for later use. Get quick access to favorite settings.</td>
</tr>
</tbody>
</table>
Desktop Management

Software Distribution

Asset Management

Remote Administration

Remote Assistance

Automation

Setup
Remote Assistance

Assist any user on your network
Remote Assistance

Control

- Toggle to Fit in Window mode
- Toggle between control and observe modes
- Toggle sharing mouse and keyboard with remote user
- Control any VNC-compatible screen
- Capture screen shot of remote computer
- Adjust color depth
Remote Drag and Drop
Remote Copy and Paste

- Copy and paste information between local and remote-controlled system
Curtain Mode

Block local user’s access when controlling a remote system
Curtain Mode

Block local user’s access when controlling a remote system.
Remote Assistance

Multiple-monitor support

Primary display
Display picker
Secondary display

Control and observe remote computer with multiple monitors
Displays are all shown in one virtual window
Remote Assistance

Observe multiple computers

- Perform commands on selected screens
- Page forward and backward
- View any VNC-compatible systems, both Linux and Windows
Remote Assistance

Observe multiple computers

- Perform commands on selected screens
- Page forward and backward
- View any VNC-compatible systems, both Linux and Windows
- Observation time, Number of computers, Color depth
System Status Indicators

- At-a-glance view of system status
- CPU, disk, and memory usage indicators
- Color status changes when usage levels reach defined thresholds
Remote Desktop Widget
## Remote Assistance

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Observe/Control</strong></td>
<td>Control any Mac OS X or VNC-enabled system, including Windows and Linux.</td>
</tr>
<tr>
<td><strong>Multiple Observe</strong></td>
<td>Observe multiple remote screens simultaneously.</td>
</tr>
<tr>
<td><strong>Share Screen</strong></td>
<td>Share a Mac OS X screen with other Mac OS X systems.</td>
</tr>
<tr>
<td><strong>Guest Access</strong></td>
<td>Allow users to manage screen access.</td>
</tr>
<tr>
<td><strong>Interactive Text Messaging</strong></td>
<td>Broadcast text messages. Initiate private, two-way, real-time computer-to-computer text chat.</td>
</tr>
<tr>
<td><strong>Remote Desktop Widget</strong></td>
<td>Observe remote Mac OS X or VNC-enabled systems using new Dashboard widget.</td>
</tr>
<tr>
<td><strong>Remote Drag and Drop</strong></td>
<td>Transfer files between your computer and remote computer.</td>
</tr>
<tr>
<td><strong>Remote Copy and Paste</strong></td>
<td>Copy and paste information between your computer and remote computer.</td>
</tr>
<tr>
<td><strong>Curtain Mode</strong></td>
<td>Block a remote user’s view of remote desktop with a virtual “curtain.”</td>
</tr>
<tr>
<td><strong>Full-Screen Toggle</strong></td>
<td>Toggle between fit in window and full screen of control windows.</td>
</tr>
</tbody>
</table>
Desktop Management

Software Distribution

Asset Management

Remote Administration

Remote Assistance

Automation

Setup
Automator Actions

- Over 30 actions
- Chain actions to automate routine management tasks
- Save workflows as plug-in or application
Apple Remote Desktop Workflows

Over 30 actions included

Build your custom Automator workflow
# Automation

<table>
<thead>
<tr>
<th><strong>AppleScript Dictionary</strong></th>
<th>Use AppleScript to automate Apple Remote Desktop tasks.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Automator Actions</strong></td>
<td>Use over 30 actions to automate routine management tasks.</td>
</tr>
<tr>
<td><strong>Task Templates</strong></td>
<td>Save task settings and configurations for later use. Get quick access to favorite settings.</td>
</tr>
</tbody>
</table>
Desktop Management
Easy Setup

Customizable toolbar

Computer lists

History of completed tasks

Details on computers

Customizable columns
Smart Computer Lists

- Creates dynamic list of computers based on specified rules
- Administrators can combine criteria to form very specific computer lists
Task Templates

- Save task settings and configurations for later reuse
- Quickly configure tasks based on past and/or favorite settings
Task History Window
# Easy Setup

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>User Mode</strong></td>
<td>Make common Apple Remote Desktop (ARD) tasks available to standard users</td>
</tr>
<tr>
<td><strong>Task Lists</strong></td>
<td>View list of running, queued, and completed tasks. Edit saved tasks and rerun with different parameters</td>
</tr>
<tr>
<td><strong>Directory-Based Authentication</strong></td>
<td>Use directory services groups to define access privileges to ARD Agent</td>
</tr>
<tr>
<td><strong>Setup Assistant</strong></td>
<td>Configure ARD Agent access privileges and settings remotely</td>
</tr>
<tr>
<td><strong>Scanners</strong></td>
<td>Discover ARD and VNC-enabled computers on local network, network address ranges, network address, or file import</td>
</tr>
<tr>
<td><strong>Encrypted Tasks</strong></td>
<td>AES 128-bit encryption of communication between administrator’s computer and managed computers.</td>
</tr>
</tbody>
</table>
Easy Setup

<table>
<thead>
<tr>
<th>Task Templates</th>
<th>Save task settings and configurations for later use. Provides quick access to favorite settings.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labels</td>
<td>Label computers using one of seven colors for easy organization.</td>
</tr>
<tr>
<td>User-Defined List Views</td>
<td>Customize which attributes are visible for each computer in your computer lists.</td>
</tr>
<tr>
<td>Smart Computer Lists</td>
<td>Dynamically create computer lists based on rules you’ve specified.</td>
</tr>
<tr>
<td>Groups</td>
<td>Use groups to organize your computer lists and tasks.</td>
</tr>
<tr>
<td>Task History Window</td>
<td>View a list of previously executed tasks as far back as you choose.</td>
</tr>
</tbody>
</table>
System Requirements and Pricing
Systems Requirements

- Administration and client systems
  - Mac OS X v10.3.9 or later
  - Ethernet (recommended), IP over FireWire or Airport network connection
Value Pricing
For Apple Remote Desktop 3

<table>
<thead>
<tr>
<th>10 Managed Systems License</th>
<th>Unlimited Managed Systems License</th>
</tr>
</thead>
<tbody>
<tr>
<td>$149</td>
<td>$299</td>
</tr>
</tbody>
</table>

U.S. MSRP
Apple Server and Storage Products
Lowering the cost and increasing the value of IT solutions
Overview

- Support for Xserve Lights Out Management
- Bonjour scanner
- Installation of software meta-packages
- Compatibility with third party VNC viewers and servers
Send files to "Mac mini 1"?

"YearEndFinancials.xls" will be copied to "/Users/apple/Desktop".

[ ] Don't ask again

[ ] Cancel  [ ] Send
Send UNIX Command

Enter a UNIX command to run using /bin/bash.

Run command as:  
- Current console user on target computer
- User: 

Command results:  
- Display all output

Name | Status
--- | ---
ARD Lab

1 list

Schedule...  Save  Send
```bash
/usr/local/bin/DigMonkingTest -H 'hostname'
```

Enter a UNIX command to run using /bin/bash.

Run command as:
- Current console user on target computer
- User: [input field]

Command results:
- Display all output

<table>
<thead>
<tr>
<th>Name</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>ARD Lab</td>
<td></td>
</tr>
</tbody>
</table>

1 list

[Schedule... Save Send]
<table>
<thead>
<tr>
<th>Computer</th>
<th>Item Name</th>
<th>Parent Path</th>
<th>Date Modified</th>
<th>Size</th>
<th>Kind</th>
<th>Version</th>
<th>Date Collected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mac mini 1</td>
<td>Windows Media Player</td>
<td>/Applications/</td>
<td>1/25/06 5:01 PM</td>
<td>7.6 MB</td>
<td>Folder</td>
<td></td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>Adobe Reader 7.0.7</td>
<td>/Applications/</td>
<td>4/24/06 12:25 PM</td>
<td>83.7 MB</td>
<td>Folder</td>
<td></td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>AppleScript</td>
<td>/Applications/</td>
<td>2/15/06 5:35 PM</td>
<td>10.5 MB</td>
<td>Folder</td>
<td></td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>AppleWorks 6</td>
<td>/Applications/</td>
<td>1/25/06 2:52 PM</td>
<td>50.6 MB</td>
<td>Folder</td>
<td></td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>Audio Recorder 3.0</td>
<td>/Applications/</td>
<td>3/6/06 5:43 PM</td>
<td>297 KB</td>
<td>Folder</td>
<td></td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>Automator.app</td>
<td>/Applications/</td>
<td>11/10/06 8:38 AM</td>
<td>10.7 MB</td>
<td>Application (Universal)</td>
<td>1.0.4</td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>Calculator.app</td>
<td>/Applications/</td>
<td>11/10/06 8:38 AM</td>
<td>5.6 MB</td>
<td>Application (Universal)</td>
<td>4.0.5</td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>Chess.app</td>
<td>/Applications/</td>
<td>12/25/05 11:36 AM</td>
<td>3.9 MB</td>
<td>Application (Universal)</td>
<td>2.2</td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>Dashboard.app</td>
<td>/Applications/</td>
<td>12/25/05 10:30 AM</td>
<td>81 KB</td>
<td>Application (Universal)</td>
<td>1.0</td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>Dictionary.app</td>
<td>/Applications/</td>
<td>4/21/05 3:26 PM</td>
<td>1.2 MB</td>
<td>Application (Universal)</td>
<td>1.0.1</td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>DVD Player.app</td>
<td>/Applications/</td>
<td>1/3/06 7:43 PM</td>
<td>20.6 MB</td>
<td>Application (Universal)</td>
<td>4.6.5</td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>FileMaker Pro 8</td>
<td>/Applications/</td>
<td>2/15/06 5:35 PM</td>
<td>217.0 MB</td>
<td>Folder</td>
<td></td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>Final Cut Express HD.app</td>
<td>/Applications/</td>
<td>10/24/05 2:10 PM</td>
<td>156.4 MB</td>
<td>Application (PowerPC)</td>
<td>3.0.1</td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>Font Book.app</td>
<td>/Applications/</td>
<td>5/27/05 9:32 AM</td>
<td>4.7 MB</td>
<td>Application (Universal)</td>
<td>2.0.2</td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>GarageBand.app</td>
<td>/Applications/</td>
<td>11/10/06 8:38 AM</td>
<td>84.7 MB</td>
<td>Application (Universal)</td>
<td>3.0.4</td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>GraphicConverter X Universal Binary</td>
<td>/Applications/</td>
<td>4/5/06 4:36 PM</td>
<td>51.6 MB</td>
<td>Folder</td>
<td></td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>iCal.app</td>
<td>/Applications/</td>
<td>11/10/06 8:38 AM</td>
<td>23.4 MB</td>
<td>Application (Universal)</td>
<td>2.0.4</td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
<td>iChat.app</td>
<td>/Applications/</td>
<td>11/10/06 8:38 AM</td>
<td>18.6 MB</td>
<td>Application (Universal)</td>
<td>3.1.5</td>
<td>12/19/06 5:29 PM</td>
</tr>
<tr>
<td>Mac mini 1</td>
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<td>61.0 MB</td>
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</table>
Lights Out Management (LOM) Support

- Power On and Restart/Shutdown LOM enabled computers
- Report on LOM configuration and settings
  - System Information Report
  - Administration Settings Report
- AppleScript Dictionary updated to include new LOM task
- Set LOM username/password using Get Info panel
- Display LOM status in computer lists
Detailed Information

• Review the following Knowledge Base article:
  - http://docs.info.apple.com/article.html?artnum=304569
Additional Resources
Online Seminars & Webcasts

· Online Seminars

· MacEnterprise.org
  - http://macenterprise.org/content/view/231/42/
  - http://macenterprise.org/content/view/232/42/
Documentation

- Technology Overview

- Administrator’s Guide

- Accessing Apple Remote Desktop SQL Database

- Creating Automator Actions

- Apple Remote Desktop 3 Preferences
  - http://macenterprise.org/content/view/237/84/
Other Cool Stuff

- Apple Remote Desktop 3 Action Pack & Source Code
  - http://automator.us/ard/ardactionpack.zip
  - http://automator.us/ard/projectfiles.zip

- John Welch’s AppleScripts
  - http://homepage.mac.com/jcwelch/ardscriptcollections.zip
Q&A