

Casper Suite Administrator's Guide

Version 8.5



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JAMF Software 301 4th Ave S Suite 1075 Minneapolis, MN 55415-1039 (612) 605-6625

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Chapter 1: Administering the JAMF Software Server (JSS)

Overview of Technologies

Applications and Utilities

This section explains the applications and utilities that make up the Casper Suite.

JSS Installers

JSS Installers provide a quick, easy way to install and upgrade the JAMF Software Server (JSS). JSS Installers are available for the following platforms:

- Mac
- Linux
- Windows

JSS Installer for Mac

The JSS Installer for Mac is a standard .mpkg installation package that installs and upgrades the JAMF Software Server (JSS) on Mac OS X Server. It also allows you to create your initial distribution point during a fresh installation.

JSS Installers for Linux and Windows

The JSS Installers for Linux and Windows install and upgrade the JSS on supported Linux and Windows operating systems.

To obtain these installers and their documentation, see the introductory email that you received from JAMF Software or contact your JAMF Software Representative.

Mac OS X Applications

Casper Admin

The Casper Admin application is a repository for packages, scripts, printers, and Dock items. Casper Admin lets you create and maintain configurations (similar to images) using these items and manually replicate distribution points.

An implementation of Casper Admin is accessible through the JSS. The functionality it provides is almost identical to the application with a few exceptions. The JSS implementation of Casper Admin does not allow you to perform the following actions:

- Copy packages to distribution points
- Delete files from distribution points
- Replicate distribution points or FireWire drives
- Add new printers
- Add and manage Dock items
- Identify Adobe Installers and Adobe Updaters
- Index packages

Conversely, the following tasks can only be performed using the JSS implementation of Casper Admin:

- Specify Self Healing data for packages
- View the contents of an indexed package
- Create directory bindings

Casper Imaging

The Casper Imaging application is used to image local hard drives. It provides two options for automating the imaging process: Autorun and PreStage imaging.

Casper Imaging can also be used to run scripts, map printers, create local user accounts, bind to Active Directory, and automate other common postfix tasks.

Casper Remote

The Casper Remote application lets you perform the following tasks on remote computers:

- Distribute software
- Run Apple's Software Update
- Run scripts
- Map printers
- Create local user accounts
- Bind to Active Directory
- Automate other management tasks

Casper Remote lets you perform the same management tasks as a policy, but the actions take place immediately over a Secure Shell (SSH) connection instead of waiting for clients to check in to the JSS.

Composer

The Composer application is used to create packages from software, applications, preference files, documents, and other installable items. Creating packages allows you to break down images into smaller, deployable components that facilitate a modular approach to the imaging process.

JAMF Software Server (JSS)

The JSS is a web application that serves as the administrative core of the Casper Suite. All other administrative applications in the Casper Suite communicate with the JSS.

The JSS lets you view inventory information, deploy policies, and manage mobile devices.

Recon

The Recon application lets you acquire Mac OS X computers to create your inventory and collect data, such as hardware, applications, fonts, and plug-ins.

Self Service

The Self Service application allows users to run pre-configured management tasks (policies) on their computers. Using an interface similar to iTunes, users can point-and-click their way through management tasks, such as installing software, running Software Update, and mapping printers.

Plug-ins can also be added to Self Service for additional functionality. They can be a web page or an actual plug-in file that is written for Self Service. Plug-ins are stored in the following location on client computers:

/Library/Application Support/JAMF/Self Service/

iOS Applications

Self Service Web Clip

The Self Service web clip allows users to install in-house apps, App Store apps, updates, and configuration profiles on managed mobile devices using an interface similar to the App Store.

Administrators add the web clip on managed devices using the Mobile Device Management Framework settings in the JSS.

Windows Applications

Recon.exe

Recon.exe lets you acquire Windows computers to create your inventory and collect data, such as hardware, applications, fonts, and plug-ins.

Utilities

JAMF Helper

The JAMF Helper displays messages to users. It is stored in the following location on client computers:

/Library/Application Support/JAMF/bin/

JSS Database Utility

The JSS Database Utility lets you back up and restore the jamfsoftware database. It also allows you to restart Apache Tomcat and MySQL and modify their settings.

/usr/sbin/jamf (jamf binary)

Most tasks in the Casper Suite are executed using the "jamf" command-line application (also known as the jamf binary). Although you are free to use this application at will, it is automatically installed, updated, and executed by the Casper Suite.

Ports

The following table describes the main ports used to host communication among client computers, distribution points, and the JAMF Software Server (JSS):

Port	Used for
22	The standard port for SSH (known as remote login in Mac OS X).
80	The standard port for HTTP. If you use HTTP to deploy packages or scripts, they are downloaded on this port.
443	The standard port for HTTPS. If you use HTTPS to deploy packages or scripts, they are downloaded on this port.
	The port used to install Mac OS X configuration profiles.
548	The standard port for Apple File Protocol (AFP). If you use an AFP share to deploy packages or scripts, clients mount the AFP share on this port.
3306	The default port for MySQL.
8443	The SSL port for the JSS. Default port used by applications, client computers, and managed mobile devices to connect to the JSS.

The following table describes other commonly used ports:

Port	Used for
25	The standard port for SMTP. The JSS connects to an SMTP server to send email notifications to administrators.
139	If you use an SMB share to deploy packages or scripts, clients mount the SMB share on this port.
389	The standard port for LDAP. Any LDAP connections—even those coming from other applications—go through the JSS. This means that only the JSS connects to your LDAP server.
445	If you have an SMB client, such as "DAVE", installed on your client computers, they may mount the SMB share on this port.
514	The default port for Syslog servers.
2195	The port used to send messages from the JSS to Apple Push Notification service (APNs).
2196	The port used for feedback from APNs.
5223	The port used to send messages from APNs to the mobile devices in your network.
8080	The HTTP port for the JSS on Linux and Windows platforms. Although it is available, applications do not connect to this port unless the defaults are overridden.
9006	The HTTP port for the JSS on the Mac platform. Although it is available, applications do not connect to this port unless the defaults are overridden.

The following ports are used to communicate with applications outside of the Casper Suite. You can change them using the JSS, if necessary:

- 0
- 43
- 14
- 48

On the Mac platform, the JSS runs on ports 8443 and 9006 by default. On Linux and Windows platforms, the JSS runs on 8443 and 8080 by default. If you decide to change these ports, you must change the port information in Tomcat's server.xml file and in the Preferences window for each Casper Suite application.

You cannot change the default ports for SSH or SMB with the Casper Suite.

Security

This section explains the Casper Suite's primary security measures:

- Passwords
- Communication protocols
- Public key infrastructure

Passwords

The Casper Suite lets you store individual accounts for client computers and reset the passwords if necessary.

Passwords stored in the database are encrypted using a standard 128-bit RSA encryption with a 1024-bit key.

Communication Protocols

Security is built into the design of the Casper Suite. Connections between the JAMF Software Server (JSS), the other applications in the Casper Suite, and mobile devices take place over Secure Sockets Layer (SSL). The Casper Remote application and Recon's network scanner connect to clients over Secure Shell (SSH), or remote login.

Secure Shell (SSH)

SSH is a network security protocol built into Mac OS X. For more information, go to:

http://openssh.org/

Secure Sockets Layer (SSL)

SSL is a security protocol for Internet communication. For more information, go to:

http://www.openssl.org/

Public Key Infrastructure

A public key infrastructure (PKI) is the design by which digital certificates are obtained, managed, stored, and distributed to ensure a secure exchange of data over a public network. For more information on PKI, go to:

http://en.wikipedia.org/wiki/Public_key_infrastructure

Certificate Authority

A certificate authority (CA) is a trusted entity that signs and issues the certificates required for certificatebased authentication. It is the central component of the PKI.

The JSS has a built-in CA that is enabled by default, but you can integrate it with third-party CA if you prefer.

For more information on CAs, go to:

http://en.wikipedia.org/wiki/Certificate_authority

Simple Certificate Enrollment Protocol

Simple Certificate Enrollment Protocol (SCEP) obtains certificates from the CA and distributes them to managed mobile devices, allowing over-the-air managements tasks to take place.

The CA hosted by the JSS is SCEP-enabled by default. If you plan to use a third-party CA, it must be SCEPenabled.

Certificates

Certificates are electronic documents that validate the identity of a public key to ensure the encryption of data and establish trust.

Web Server Certificate

This certificate validates the identity of the JSS and establishes trust between the JSS and clients. Choosing to install this certificate prevents possible man-in-the-middle attacks by allowing clients to validate the certificate when connecting to the JSS. Clock skew can also be reduced to prevent the replay of messages from the JSS to client computers.

If you are using the Casper Suite to manage mobile devices, a web server certificate is required to ensure that the devices are communicating with a valid JSS.

Root CA Certificate

This certificate establishes trust between the CA and Mac OS X clients, and between the CA and managed mobile devices.

Signing Certificate

This certificate is used to sign messages passed between the between the JSS and Mac OS X clients, and between the JSS and managed mobile devices.

Apple Push Notification Service Certificate

This certificate authenticates the JSS to Apple Push Notification service (APNs).

Device Certificate

This certificate validates the identity of Mac OS X clients and managed mobile devices each time they communicate with the JSS.

Requirements

This section lists the requirements for the following components and functions of the Casper Suite:

- JAMF Software Server
- JSS Installers
- JSS Database Utility
- Package building
- Inventory
- Imaging
- Remote management
- Self Service
- Mobile device management

JAMF Software Server

You can host the JAMF Software Server (JSS) on any server that meets the following minimum requirements:

- Java 1.6
- MySQL 5.1 or later
- Apache Tomcat 6.0 or later

Tested operating systems include:

- Mac OS X Server 10.6
- Mac OS X Server 10.7
- Ubuntu 10.04 LTS Server
- Red Hat Enterprise Linux (RHEL) 6
- Windows Server 2008

Although you can install the JSS on any server that meets the minimum requirements, the JSS Installers for Mac, Linux, and Windows have additional requirements. (See the "JSS Installers" section for detailed information.)

JSS Installers

JSS Installer for Mac

The JSS Installer for Mac requires a Mac computer with:

- A 64-bit capable Intel processor
- 2 GB of RAM

- 400 MB of disk space available
- Mac OS X Server 10.6 or later
- Java 1.6
- MySQL Enterprise Edition 5.5 or later (recommended) or MySQL Community Server 5.5 or later, available at:

http://www.mysql.com/downloads/

Ports 8443 and 9006 available

JSS Installers for Linux and Windows

Requirements for the JSS Installers for Linux and Windows are available in the JAMF Software Server Installation Guides for Linux and Windows. You can obtain these guides by downloading the installers using the link in your introductory email. If you did not receive an introductory email, contact your JAMF Software Representative.

JSS Database Utility

The JSS Database Utility requires a server with MySQL Server 5.1 or later.

Package Building

Composer can run on the following operating systems:

- Mac OS X 10.5.x
- Mac OS X 10.6.x
- Mac OS X 10.7.x

Inventory

Recon can run locally on the following operating systems:

- Mac OS X 10.5.x
- Mac OS X 10.6.x
- Mac OS X 10.7.x
- Windows 2000
- Windows XP
- Windows Server 2003
- Windows Vista
- Windows Server 2008
- Windows 7

Recon can remotely acquire computers running the following operating systems:

- Mac OS X 10.5.x
- Mac OS X 10.6.x
- Mac OS X 10.7.x.

Older versions of Recon (available by contacting JAMF Software Support) can remotely acquire computers running the following operating systems:

- Mac OS 8.6
- Mac OS 9.x
- Mac OS X 10.1.x
- Mac OS X 10.2.x
- Mac OS X 10.3.x
- Mac OS X 10.4.x
- Windows NT4
- Windows ME

Recon can acquire synced mobile devices running iOS 4 or later.

Imaging

Casper Imaging can image computers running Mac OS X 10.5.x, Mac OS X 10.6.x, or Mac OS X 10.7.x that do not have PowerPC processors.

Remote Management

Policies can be used to manage computers running the following operating systems:

- Mac OS X 10.5.x
- Mac OS X 10.6.x
- Mac OS X 10.7.x

Casper Remote can be used to manage computers running Mac OS X 10.5.x, Mac OS X 10.6.x, or Mac OS X 10.7.x that do not have PowerPC processors.

Self Service

Self Service can run on the following operating systems:

- Mac OS X 10.5.x
- Mac OS X 10.6.x
- Mac OS X 10.7.x

Mobile Device Management

The Casper Suite can manage mobile devices running iOS 4 or later.

Installing and Managing the JAMF Software Server (JSS)

Required Components

This section describes the components that run the JSS.

Java

Java 1.6 is required to start the Tomcat web application server that runs the JSS.

MySQL

The JSS stores information in a MySQL database. For more information about MySQL, go to:

http://www.mysql.com/

Apache Tomcat

The JSS runs on Tomcat, a web application server similar to Microsoft's Internet Information Server (IIS). For more information about Tomcat, go to:

http://tomcat.apache.org/

Installing the JSS on Mac OS X Server

Installing the JAMF Software Server (JSS) involves the following steps:

- 1. Install the required software (if you haven't already).
- 2. Create the jamfsoftware database.
- 3. Run the JSS Installer.

This section includes detailed instructions for each step.

Before you begin, review the "Requirements" section and make sure that your server meets the JSS Installer requirements.

Note: The instructions in this guide are for the Mac platform only. To obtain the JSS Installers for Linux and Windows along with installation instructions, see the introductory email that you received from JAMF Software or contact your JAMF Software Representative.

For instructions on how to manually install the JSS on Linux and Windows, download the "Manually Installing the JAMF Software Server" technical paper from:

http://jamfsoftware.com/libraries/pdf/white_papers/Manually_Installing_the_JAMF_Software_Server. pdf

Step 1: Install the Required Software

Java and MySQL must be installed on the server before you can create the jamfsoftware database and run the JSS Installer. For instructions on how to install and configure Java and MySQL, see the following Knowledge Base article:

https://jamfnation.jamfsoftware.com/article.html?id=28

Step 2: Create the jamfsoftware Database

Create a MySQL database in which the JSS can store its data, and a MySQL user can access it. Name the database "jamfsoftware" and give the MySQL user the following credentials:

- User name: jamfsoftware
- Password: jamfsw03

Note: If you customize the database name, user name, or password, you will be prompted to enter the custom settings when you run the JSS Installer.

To create the jamfsoftware database:

1. Open Terminal and access the MySQL command line as "root" by typing:

mysql -u root -p

If MySQL is not in the path or it is installed in a custom location, access the MySQL command line by updating the path or by typing:

/path/to/mysql -u root -p

Note: On Mac OS X 10.7 or later, the default path for MySQL is /usr/local/mysql/bin/.

- 2. When prompted, enter the password for the MySQL "root" user. If you did not create a root password, press the Return key.
- 3. Create a database named "jamfsoftware" by executing:

CREATE DATABASE jamfsoftware;

4. Grant permissions to a MySQL user named "jamfsoftware" so that it can access the new database:

GRANT ALL ON jamfsoftware.* TO 'jamfsoftware'@localhost IDENTIFIED BY 'jamfsw03';

Note: If you choose to enter a user name other than "jamfsoftware," it is recommended that you do not use "root".

Step 3: Run the JSS Installer

Run the JSS Installer to install Apache Tomcat and the JSS web application. The JSS Installer also creates your initial distribution point.

To run the JSS Installer:

- 1. Copy the JSS Installer for Mac (JSS Installer.mpkg) to the server.
- 2. Double-click the installer and click **Continue** to proceed.
- 3. When the Introduction pane appears, click **Continue**.
- 4. Read the information on the Read Me pane, and then click **Continue**.
- 5. Select a disk on which to install the software, and then click **Continue**.
- 6. Modify the information on the Database pane to reflect any custom settings if needed, and then click **Continue**.
- 7. Click Install.

- 8. Enter your administrator password when prompted, and then click **OK** or **Install Software**.
- 9. When the installation is complete, follow the instructions on the Summary pane to access the JSS. Then, click **Close**.

Allocating Additional Memory to Tomcat

The instructions in this section explain how to:

- View the amount of memory being used by the web application
- Allocate additional memory to Tomcat

To view web application memory usage:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Database/Web Application Health link.
- 4. Click the Web App Memory link.

To allocate additional memory to Tomcat using the JSS Database Utility:

- Open the JSS Database Utility on the server running the JSS. The JSS Database Utility is located at: /Library/JSS/bin/JSSDatabaseUtil.jar
- 2. Enter the user name and password for an administrator account to the server, and then click **OK**.
- 3. If the JSS Database Utility is unable to locate the MySQL binary, you are prompted to specify the path. Click **Continue** and specify the location of the binary.
- 4. From the menu bar and choose Utilities > Change Tomcat settings.
- 5. Modify the minimum and maximum memory and PermGen sizes as needed.

O O Ton	ncat Settings
omcat Settings	
Minimum Memory:	1024 MB
Maximum Memory:	4096 MB
Minimum PermGen Size:	256 MB
Maximum PermGen Size:	512 MB
	Cancel Apply Settings

- 6. Click Apply Settings.
- 7. When prompted to restart Tomcat, click **Yes**.



Setting Up the JSS

The first time you connect to the JAMF Software Server (JSS), the JSS Setup Assistant guides you through creating your first account and configuring the basic computer management framework.

To set up the JSS:

- 1. Log in to JSS with a web browser.
- 2. Read the License Agreement and click Agree.
- 3. Enter the name of your organization and the activation code you received from your JAMF Software Representative, and then click **Continue**.

If you did not receive an activation code, send an email to sales@jamfsoftware.com.

Activation Code	Account	Management	Complete
Activation Code	2		
	organization and activation c ivation code, please contact JA	ode. MF Software at sales@jamfsoftware.«	.com.
		MF Software at sales@jamfsoftware.c	.com.
	ivation code, please contact JA	MF Software at sales@jamfsoftware.o	com.

4. Enter a user name and password to create your first administrator account in the JSS.

Activation Code	Account	Management	Complete
nitial JSS Account			
Create your first account in th	e JSS.		
	Username:		
	Password:		
Ve	ify Password:		

5. Type the password again to verify it, and then click **Continue**.

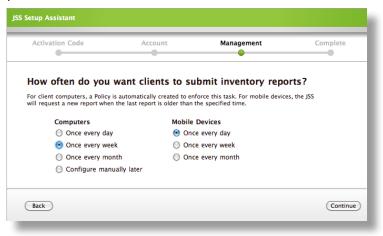
6. Verify the URL for your JSS, and then click **Continue**.

The URL must include the correct protocol, domain, and port. For example: https://jss.mycompany.corp:8443/

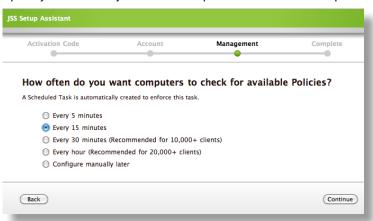
Inter the LIDI for the ICC ti			
inter the OKL for the JSS th	nat clients s	hould connect to	1
his URL will be used by the computers and	mobile devices to lo	ocate the JSS.	
lote: For Mobile Device Management, this U	RL cannot use an IP	Address.	
Varning: If clients cannot connect to the JSS	at the address ente	red, they cannot be manage	ed by the JSS.
JSS URL: https://jss.mycompan	y.com:8443/	l	

7. Specify how often you want computers and mobile devices to submit inventory reports to the JSS, and then click **Continue**.

For computers, this automatically creates a policy to enforce the inventory schedule. For more information policies, see the "Policies" section.



8. Specify how often you want computers to check in for policies, and then click **Continue**.



9. Choose whether or not to create login/logout hooks, and then click **Continue**.

Login/logout hooks enable you to schedule management tasks to take place automatically when users log in or out of a computer. For more information on login/logout hooks, see the "Configuring the Computer Management Framework" section.

Warning: Creating login/logout hooks with the Casper Suite overwrites existing login/logout hooks.

Activation Code	Account	Management O	Complete
Do you want to cr	eate login/logout	hooks for computer	s?
		nts at login/logout. These events i ging user name and IP address.	nclude running
Warning: Creating login/logo exist on client computers.	ut hooks using the Casper Su	ite will overwrite login/logout hoo	oks that currently
Create login/logo	ut hooks		
💿 Do not create log	in/logout hooks		

10. If you chose to create login/logout hooks in the previous step, specify whether or not to enable Managed Preferences and click the **Continue** button.

Enabling Managed Preferences lets you set locked preferences for groups of users across your network. You may be familiar with these preferences as MCX settings. For more information on Managed Preferences, see the "Managed Preferences" section.

Warning: The Casper Suite's Managed Preferences may conflict with MCX settings provided from another source, such as Open Directory or Active Directory.

Activation Code	Account	Management O	Complete
Do you want to en	able Managed Pre	eferences (MCX)?	
he Casper Suite can provide ne Management Framework S		ts. You can change this option late	er in the JSS using
a rning: The Casper Suite's M uch as Open Directory or Act		lict with MCX settings provided fr	om another source
🖲 Enable Managed	Preferences in the JSS		
🔘 Do not enable Ma	anaged Preferences in the J	SS	

11. Verify your settings, and then click the **Save** button.

If you need to make changes, click the **Back** button or make changes in the JSS.

Activation Code	Account	Management	Complete
erify Settings			
	are configured correctly, and hanges, if necessary, or mak	then click the Save button. e changes in the JSS after your se	ssion is complete.
	Organiz	ation: JAMF Software, LLC	
	License	Type: Trial	
		pires: Friday, November 26 20	010
		oduct: Casper Suite	
	License	d for: 20 clients	
Updat	e Inventory of Mobile De	vices: Once every day	
U	pdate Inventory of Comp	uters: Once every week	
	Check for Po	licies: Every 15 minutes	
	Login/Logout H	looks: Disabled	

12. Click the **Go to the JSS** button to start using the JSS immediately, or use the links to configure additional settings for client and mobile device management in a separate browser window.

Activation Code	Account	Management	Complete
our session in the	e JSS Setup Assis	tant is complete!	
		onfigure before using the JSS. Use or click the Go to the JSS buttor	
reate a web server certifica	te		
	. If you are getting an SS	use for SSL. This allows Mobi L certificate from an internal	
connect to an LDAP server			
		ntegrating the JSS with an LDA m your organization's central	
nable email notifications			
Configure an SMTP Server to	host email notifications	when various events occur.	
Ipload Push Notification Ce	rtificate		
Ipload your Apple Push Not		bile Device Management.	
pecify your SCEP Server or :	Set up a Built-in Certificat	e Authority	
		a signing certificate for enroll , you can instruct the JSS to a	
nable Change Management			
et up a local log or Syslog	server to track informatio	n about the changes made in	the JSS.
ntegrate with Apple's Globa	I Service Exchange (GSX).		
utomatically populate warr			

Upgrading the JSS

Follow the instructions in this section to upgrade the JAMF Software Server (JSS) on Mac OS X Server.

To upgrade the JSS:

- 1. Back up the current database using the JSS Database Utility. (See "Backing Up the Database" for complete instructions.)
- 2. Copy the most current version of the JSS Installer for Mac (JSS Installer.mpkg) to the server.
- 3. Double-click the installer and click **Continue**.
- 4. When the Introduction pane appears, click **Continue**.
- 5. Read the information on the Read Me pane, and then click **Continue**.
- 6. Select a disk on which to install the software, and then click **Continue**.
- 7. If the Database pane appears, enter information about your MySQL database. Then, click **Continue**. The JSS Installer uses this information to connect to the existing database.

Note: This pane is only displayed if the database.xml file is in a custom location or contains invalid information.

- 8. Click Install.
- 9. Enter your administrator password when prompted, and then click **OK**.
- 10. When the upgrade is complete, follow the instructions on the Summary pane to access the JSS. Then, click **Close**.

Changing the Activation Code

Every time you receive a new activation code, it must be updated in the JAMF Software Server (JSS).

When you update the activation code, you can also update your company name and view the following licensing information:

- Product—Product you are licensed for
- Licenses—Current number of licenses
- License Renewal Date—Date the maintenance contract expires
- License Type—Commercial, education, trial, etc.

The instructions in this section explain how to change the activation code.

To change the activation code:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the General Settings link.
- 4. Specify the new activation code in the **Activation Code** field and click **Save**.

Backing Up the Database

You can use the JSS Database Utility to create a backup of the jamfsoftware database, schedule database backups, and stop scheduled database backups.

Creating a Database Backup

Use the JSS Database Utility to create a backup of the jamfsoftware database. The time it takes to create the backup depends on the size of the database.

To create a database backup:

- Open the JSS Database Utility, located at: /Library/JSS/bin/JSSDatabaseUtil.jar
- 2. Enter the user name and password for an administrator account to the server, and then click OK.
- 3. If the JSS Database Utility is unable to locate the MySQL binary, you are prompted to specify the path. Click **Continue** and specify the location of the binary.
- 4. If the Database Connection Setup pane appears, edit the settings to match your database configuration and click **Apply Settings**.
- 5. Click Save Backup Now.

ave a backup of y	our JSS database.		Save Backup Now
estore an existing	J backup of your JSS	database.	Restore Backup Now
edule Backups			
edule Backups	omatic backups for	Midnight	÷
_	omatic backups for	Midnight	•
Schedule aut	omatic backups for		¢)

6. Select the location where you want to save the backup, and then click **Choose**.

The JSS Database Utility creates the backup and saves it as a .sql.gz file.

Scheduling Database Backups

Use the JSS Database Utility to schedule daily backups of the jamfsoftware database. You can also automate the deletion of scheduled backups that are older than a certain number of days.

To schedule database backups:

- Open the JSS Database Utility, located at: /Library/JSS/bin/JSSDatabaseUtil.jar
- 2. Enter the user name and password for an administrator account to the server, and then click OK.
- 3. If the JSS Database Utility is unable to locate the MySQL binary, you are prompted to specify the path. Click **Continue** and specify the location of the binary.
- 4. If the Database Connection Setup pane appears, edit the settings to match your database configuration and click **Apply Settings**.
- 5. Select the **Schedule automatic backups for** checkbox and choose the hour of the day that you want backups to occur.
- 6. To change the location where backups are saved, click the **Change** button and select a new location.

Save a backup of your JSS database.		Save Backup Now
Restore an existing backup of your JSS d	atabase.	Restore Backup Now
circulare backups		
Schedule Backups Schedule automatic backups for Save backups to: /Library/JSS/Backups/Databas	Midnight	¢ Change

7. To automate the deletion of scheduled backups, select the **Delete backups older than** checkbox. Then, choose the number of days after which backups should be deleted.

The JSS Database Utility saves daily backups at the hour that you specified. It also deletes scheduled backups older than the number of days that you specified.

Stopping Scheduled Database Backups

Use the JSS Database Utility to stop scheduled backups of the jamfsoftware database.

To stop scheduled database backups:

- Open the JSS Database Utility, located at: /Library/JSS/bin/JSSDatabaseUtil.jar
- 2. Enter the user name and password for an administrator account to the server, and then click OK.
- 3. If the JSS Database Utility is unable to locate the MySQL binary, you are prompted to specify the path. Click **Continue** and specify the location of the binary.
- 4. If the Database Connection Setup pane appears, edit the settings to match your database configuration and click **Apply Settings**.
- 5. Deselect the **Schedule automatic backups for** checkbox.

estore an existing backup of your JSS database. Restore Backup Now	
	up Now
Save backups to: /Library/JSS/Backups/Database Change	hange

The JSS Database Utility stops scheduled backups immediately.

Restoring a Database Backup

If you need to revert to an earlier version of your database, you can use the JSS Database Utility to restore a database backup.

To restore a database backup:

1. Open the JSS Database Utility, located at:

/Library/JSS/bin/JSSDatabaseUtil.jar

- 2. Enter the user name and password for an administrator account to the server, and then click OK.
- 3. If the JSS Database Utility is unable to locate the MySQL binary, you are prompted to specify the path. Click **Continue** and specify the location of the binary.
- 4. If the Database Connection Setup pane appears, edit the settings to match your database configuration and click **Apply Settings**.
- 5. Click Restore Backup Now.

	Save Backup Now
estore an existing backup of your JSS database.	Restore Backup Now
Schedule automatic backups for Midnight	
Schedule automatic backups for Midnight Save backups to: /Library/JSS/Backups/Database	Change

- Select the backup that you want to restore, and then click Choose.
 The backup must have a .sql or .sql.gz file extension.
- 7. When prompted to restart Tomcat, click Yes.



The JSS Database Utility restarts Tomcat and replaces the current database with the one that you restored.

Deleting Logs from the Database

Over time, the JAMF Software Server (JSS) accumulates a large number of logs. Deleting these logs can reduce the size of the database and can speed up searches.

You can schedule log deletion to take place automatically or manually delete logs as needed.

To schedule automatic log deletion:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Flush Database Logs link.
- 4. Use the pop-up menus to specify the period of time after which logs will be deleted.

For example, to delete Policy logs that are six months old or older, choose "Six Months" from the pop-up menu next to **Policy Logs**.

To stop deleting a type of log, choose "Do not delete" from the pop-up menu next to it.

ush Database Logs	
Flush Database Logs	
Logs that are older than the times specified will be auto The JSS will not delete the last inventory report for a co	omatically deleted from the JSS at the time specified. mputer or mobile device even if it is older than the time specified.
Casper Imaging Logs:	Do not delete 💠
Casper Remote Logs:	Do not delete 🗘
Policy Logs:	Do not delete 🗘
CasperVNC Logs:	Do not delete \$
Computer Inventory Reports:	Do not delete \$
Computer Usage Logs:	Do not delete 🗘
Mobile Device Inventory Reports:	Do not delete 🗘
Mobile Device Management Command Logs:	Do not delete 🗘
Time of Day:	Midnight +
Flush Manually	Cancel Save

- Use the Time of Day pop-up menu to schedule a time for the deletion.
 For example, to delete logs every morning at 2 a.m., choose "2 AM" from the pop-up menu.
- 6. Click Save.
- 7. Click **Continue** to confirm the schedule.

To delete logs manually:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Flush Database Logs link.

- 4. Click the **Flush Manually** button.
- 5. Select the types of logs you want to delete.

Mass Delete Logs	
Logs to Delete:	Casper Imaging Logs
	Casper Remote Logs
	Policy Logs
	CasperVNC Logs
	Computer Inventory Reports
	Computer Usage Logs
	Mobile Device Inventory Reports
	Mobile Device Management Command Logs
Older than:	One Week ‡
	Cancel Delete

- 6. Use the **Older than** pop-up menu to specify the period of time after which logs will be deleted. For example, to delete logs that are six months old or older, choose "Six Months" from the pop-up menu.
- 7. Click **Delete**.
- 8. Click **Continue** to confirm the results.

Managing Distribution Points

A key feature of the Casper Suite is the ability to deploy packages from multiple distribution points. This lets you deploy packages to computers in other locations using servers that are geographically close to each destination. It reduces the need for bandwidth between locations and allows you to deploy packages across a widespread network.

Distribution points can share files over Apple Filing Protocol (AFP) or Server Message Block (SMB).

This section explains how to do the following:

- Add distribution points
- Replicate distribution points
- Replicate FireWire or USB drives

Adding Distribution Points

Servers running any platform can function as distribution points.

Adding a distribution point involves the following steps:

- 1. Set up the distribution point.
- 2. Add a record of the distribution point to the JAMF Software Server (JSS).

Step 1: Set Up a New Distribution Point

- 3. Create a share point (AFP or SMB) on the server you want to utilize as the distribution point.
- 4. Create an account that has read-only access to the share.
- 5. Create an account that has read/write access to the share.
- 6. Make sure "Everyone" has read-only access to the share.
- 7. (Optional) Enable HTTP or HTTPS on the share point.

Step 2: Add a Record of the Distribution Point to the JSS

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Servers** link.
- 4. Click the **Add Server** button in the toolbar.
- 5. Select the **Distribution Point** option and click **Continue**.
- 6. Enter a display name for the server.
- 7. Specify the DNS name or IP address for the server.

- 8. To use this server as the default distribution point, select the **Use this server as the Master** option.
- 9. To assign a backup distribution point, choose a server from the Failover Distribution Point pop-up menu.
- Click the File Sharing tab and enter information about the AFP or SMB share point. Casper Imaging uses the read-only account to mount the share.

Casper Admin uses the read/write account.

Edit Distri	bution Point: NYC	:		
() General	∢ File Sharing	iii http		
		Connection Type:		-
	Workgroup	Share Name: o or Domain (SMB only):	CasperShare – MyShare]
		Port:]
		Read-Only Username: Read-Only Password:	•••••]
	Verif	y Read-Only Password: Read/Write Username:] - 1
		Read/Write Password:	•••••]
	Verif	y Read/Write Password:		1
				Cancel Save

- 11. If you have HTTP or HTTPS access enabled on the distribution point:
 - a. Click the **HTTP** tab.

Edit Distr	ibution Point: NYC	:		
0		٢		
General	File Sharing	HTTP		
		HTTP Dow	vnloads are enabled for this Distribution Point	
	Protocol:	HTTP 🛟)	
	Port:	80		
	Context:			
	۲	No Auther	ntication is Required	
	0	Username	& Password Authentication is Required	
	Username:			
	Password:			
	Verify Password:			
	0	Certificate	Authentication is Required	
	Certificate:	None Chos	en Choose File	
-				
			Cance	I) Save

b. Choose HTTP or HTTPS from the Protocol pop-up menu.

- c. Enter the port in the **Port** field.
- d. In the Context field, enter the path to the share point (following the DNS name or port) that exists in the URL. For example, you would enter "CasperShare" if the share is accessible at: http://192.168.10.10/CasperShare/
- e. If the share requires a user name and password to access files, select the User name & Password Authentication is Required option.
- f. Specify the user name and password, and then type the password again to verify it.
- g. If the share requires a certificate, select **Certificate Authentication is Required** and click the **Choose File** link to upload the certificate.
- 12. Click the **Save** button.

Replicating Distribution Points

You can replicate distribution points that are running on any platform.

To ensure distribution points have the same deployable items, synchronize them manually using the Casper Admin application.

To replicate distribution points:

- 1. Open Casper Admin.
- 2. Select the distribution point(s) you want to replicate and click the **Replicate** button.

Replicating FireWire or USB Drives

To make packages, scripts, printers, and configurations available for Casper Imaging offline, replicate to an external drive and place a copy of Casper Imaging at the root of the drive.

Note: Casper Imaging cannot create a management account when imaging offline.

Step 1: Replicate to an External Drive

- 1. Open Casper Admin.
- 2. Drag the hard drive icon from the Finder to the sidebar in Casper Admin.
- 3. If the external drive is already under the Local Drives heading in the sidebar, it is already replicated and is mounted automatically when you open Casper Admin.
- 4. Select the hard drive in the sidebar and click the **Replicate** button.

Step 2: Use the Replicated Drive Offline

1. Make a copy of the Casper Imaging application.

- 2. Put the copy at the root of the replicated drive at the same level as the Packages, Scripts, and Casper Data folders.
- 3. Open Casper Imaging.

Enabling Email Notifications

In order for the JAMF Software Server (JSS) to send email notifications, you must specify the SMTP server from which the notifications will be sent.

Email notifications can be sent when the following events occur:

- A computer is acquired using a PreStage
- An error occurs during the imaging or Autorun process
- An error occurs while a policy is being executed
- A Self Healing event takes place
- Restricted software is found
- A licensing violation occurs
- A smart computer group changes
- There is a JSS service restart
- A database is backed up successfully
- A database backup fails

The instructions in this section explain how to set up and modify an SMTP server.

To set up or modify an SMTP Server:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **General Settings** link.
- 4. Click the SMTP Server tab.
- 5. Enter the DNS name or IP address for the SMTP server in the SMTP Host Address field.

SS Settings						
0		2468020 97.2188		\$		
Activation Code	SMTP Server	Change Management	GSX Connection	Server Configuration		
SMTP Serv		S can send email notification:	s to users of the ISS.			
of speerfing an		P Host Address:				
	Enc	ryption Method: None				
		Port: 25	0			
	Connecti	on times out in: 5	seconds			
Send notif	ications from this	s email address:				
	Requires	Authentication: 📃				
No email address	is associated with ad	min to send a test message to				
				Cancel Save		

- 6. Use the **Encryption Method** pop-up menu to specify the protocol used for data encryption.
- 7. In the **Port** field, specify the port over which the connection is made. The default port is 25.
- 8. Specify the number of seconds you want to wait before the connection times out. By default, this is 5 seconds.
- 9. Specify the email address from which notifications will be sent.
- 10. If the SMTP server requires authentication, select the checkbox labeled **Requires Authentication** and specify credentials for a valid account to the server.

0			<u>.</u>	\$
ctivation Code	SMTP Server	Change Management	CSX Connection	Server Configuration
SMTP Serv		S can send email notificatio	ns to users of the 155.	
.,	SMT	P Host Address:		
	Enc	ryption Method: None Port: 25	0	
_	Connecti	on times out in: 5	seconds	
Send notif	ications from this	s email address:		
	Requires	Authentication: 🗹		
		Username:		
		Password:		
	١	/erify Password:		
No email address	is associated with adv	nin to send a test message to		

- 11. If you want to send a test message, click the **Send Test message to <email address>** link. This message is sent to the email address on the account currently logged in to the JSS.
- 12. Click Save.

Enabling Change Management

Change management logs let you track the following information:

- Changes made to the client computers on your network
- Computers from which the changes were made
- Accounts that initiated the changes

You can choose to write these logs to a local log on the server running the JAMF Software Server (JSS) or a Syslog server.

The header for each logged event includes the following information:

- Timestamp (when the event took place)
- User name of the account that initiated the change
- IP address of the client computer that triggered the event
- JSS identifier (com.jamfsoftware.jss)

The instructions in this section explain how to set up and modify change management to a log file and a Syslog server.

To set up or modify change management to a log file:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **General Settings** link.
- 4. Click the Change Management tab.
- 5. Select the **Enable Change Management** checkbox if it is not already selected, and specify a directory location for the log file.

ctivation Code	SMTP Server	Change Managemen	t GSX Connection	Server Configuration
Change Ma	nagement			
The JSS can be cor	nfigured to log all	changes to a log file or a	Syslog server.	
🗹 Enable	e Change Manag	gement		
		Log Directory: /var	/log	
	Size	of Log File (MB): 10		
Syslog Daemon	Definitions			
		Hostname:		
	Port	(Default is 514): 514		

6. Click Save.

Change Management logs are written to the file specified in the **Log Directory** field. They have the filename jamfChangeManagement.log and can be viewed using the Console application.

To set up or modify change management to a Syslog server:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **General Settings** link.
- 4. Click the **Change Management** tab.
- 5. Select the **Enable Change Management** checkbox.
- 6. In the Hostname field, enter the DNS name or IP address for the Syslog server.
- 7. Specify the UDP port that the Syslog server is using.

The port is entered as 514 by default.

0		5000000 91/27386			4
Activation Code	SMTP Server	Change Manage	ement	GSX Connection	Server Configuration
Change M	anagement				
The JSS can be c	onfigured to log all	changes to a log file	or a Syslog	server.	
🗹 Enat	ole Change Manag	gement			
		Log Directory:	/var/log		
	Size	of Log File (MB):	10		
Syslog Daemo	n Definitions				
		Hostname:	syslog.my	company.co	
	Port	(Default is 514):	514		
					Cancel Save

8. Click Save.

Integrating with GSX

The JAMF Software Server (JSS) can access the following purchasing information from Apple's Global Service Exchange (GSX) for computers in the JSS:

- Purchase date
- Warranty expiration date
- Apple Care ID (Warranty reference number)

To set up a GSX connection, you must have a GSX account and be signed up for Apple's Self-Servicing Account (SSA) Program. Information on this program is currently available at:

http://www.apple.com/support/programs/ssa/

For information on setting up a GSX account for integration with the JSS, see the following Knowledge Base article:

https://jamfnation.jamfsoftware.com/article.html?id=26

Note: GSX may not always return complete purchasing information for a computer. The JSS displays any information that is returned.

The instructions in this section explain how to set up and modify the GSX connection.

To set up or modify the GSX connection:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **General Settings** link.
- 4. Click the GSX Connection tab.
- 5. Select the **Enable connection to GSX** checkbox.

6. Enter your GSX account number in the **GSX Account Number** field.

JSS Settings					
0		Lakitani 1977-194		<u>.</u>	4
Activation Code	SMTP Server	Change Manageme	ent	GSX Connection	Server Configuration
GSX Conne The JSS utilizes A		ce Exchange to lookup v	warran	ty information for App	le hardware.
🗹 Enab	le connection to	GSX			
	GSX	Account Number:			
		Username:			
		Password:			
		Verify Password:			
		Choose Region:	merica	as ‡	
		Date Format: Mo	onthD	ayYear	
0	Test the connec	tion at gsxws2.appl	e.com	/gsx-ws/services/a	am/asp
					Cancel Save

- 7. Enter the user name and password for your GSX account, and then type the password again to verify it.
- Choose your region from the Choose Region pop-up menu.
 The date format automatically updates to reflect the region you choose.
- 9. To test the GSX connection, click the **Search (()** icon

The JSS attempts to connect to GSX with the account number and credentials that you provided. A message displays confirming the success or failure of the connection.

10. Click Save.

Generating a Web Server Certificate

The JAMF Software Server (JSS) requires a valid web server certificate to ensure that managed computers and mobile devices communicate with the JSS and not an imposter server.

If you already have a web server certificate from an internal certificate authority (CA) or a trusted thirdparty vendor, follow the vendor's instructions for using the certificate with Tomcat.

If you do not have a valid web server certificate, you can generate one from the CA that is built into the JSS. To do this, the JSS must be installed as the "ROOT" web application and the user running the Tomcat process must have read/write access to Tomcat's server.xml file.

To generate a web server certificate from the built-in CA:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the General Settings link.
- 4. Click the Server Configuration tab.
- 5. Click the **Replace with certificate from the JSS's built-in CA** link.

JSS Settings				
() Activation Code	SMTP Server	Change Management	GSX Connection	Server Configuration
🔲 Website Certifica	ate 🔍 Cluster	ring 🛛 🗢 Tomcat Config	juration 🛛 🛞 Limited	Access JSS
To ensure secur This certificate o the built-in cert Note: The JSS wi	can come from a tri tificate authority in	with the JSS, you need to have usted third party vendor, you the JSS. server.xml file when you m	ır internal certificate autl	nority, or from
		mfsw.corp, OU=JSS, O=JAN ny JSS Built-in Certificate		apolis, ST=MN, C=US
Replace with co	ertificate from the J	SS's built-in CA		
				Cancel Save

- 6. Click Save.
- Restart Tomcat to begin utilizing the certificate.
 For instructions on how to restart Tomcat, see the Knowledge Base article at: https://jamfnation.jamfsoftware.com/article.html?id=117

Enabling Clustering

Clustering allows you to point multiple instances of the JAMF Software Server (JSS) web application to the same database. This requires a load balancer with the address of the JSS. For example:

https://jss.mycompany.com:8443/

The load balancer should route traffic to the servers running the web application.

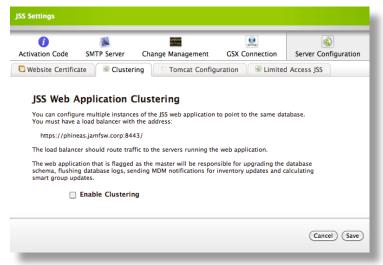
The web application that functions as the master handles the following tasks:

- Upgrading the database schema
- Flushing database logs

For more information on setting up a clustered environment, contact your JAMF Software Representative.

To enable clustering:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Generals Settings** link.
- 4. Click the Server Configuration tab.
- 5. Click the **Clustering** tab.
- 6. Select the **Enable Clustering** checkbox.



- 7. To add web applications to the cluster, click the Add To Cluster links.
- 8. To make a web application the master, click the **Maste**r link.
- 9. Click Save.

 Restart Tomcat for the changes to take effect.
 For instructions on how to restart Tomcat, see the Knowledge Base article at: <u>https://jamfnation.jamfsoftware.com/article.html?id=117</u>

Configuring Tomcat to Work with a Load Balancer

When working with a load balancer, you may need to enable a few attributes in Tomcat's server.xml file to ensure that Tomcat and the load balancer communicate properly.

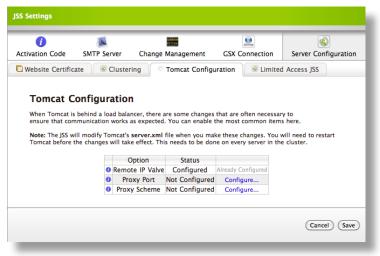
The JAMF Software Server (JSS) allows you to enable the following attributes without requiring you to access the server.xml file manually:

- Remote IP valve
- Proxy port
- Proxy scheme

To enable these attributes, the JSS must be installed as the "ROOT" web application and the user running the Tomcat process must have read/write access to Tomcat's server.xml file.

To configure Tomcat to work with a load balancer:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the General Settings link.
- 4. Click the Server Configuration tab.
- 5. Click the Tomcat Configuration tab.
- 6. Click the Configure link across from an attribute to enable it.



- 7. Click Save.
- Restart Tomcat for the changes to take effect.
 For instructions on how to restart Tomcat, see the Knowledge Base article at: <u>https://jamfnation.jamfsoftware.com/article.html?id=117</u>

Changing the Limited Access Setting

When working in a clustered environment, you may have a JAMF Software Server (JSS) that computers and mobile devices can access from outside of the network. If you have a second JSS web application that resides in your DMZ, you can make the administrative interface unavailable by changing the Limited Access setting. Changing this setting also limits the types of devices that can check in and enroll with the JSS.

The Limited Access setting has four options:

- **Full JSS**—This is the default option for every JSS. It allows computers and mobile devices to check in and enroll with the JSS and use Self Service. It also makes the JSS interface available from anywhere.
- Computer and Mobile Device Management—This option allows computers and mobile devices to check in and enroll with the JSS and use Self Service. It also disables the JSS interface.
- Computer Management Only—This option allows computers to check in with the JSS and use Self Service. It also disables the JSS interface.
- Mobile Device Management Only—This option allows mobile devices to check in and enroll with the JSS and use Self Service. It also disables the JSS interface.

Warning: Do not change the Limited Access setting while connecting through a load balancer. Connect directly to the instance of Tomcat that is inside of your DMZ.

After you change the Limited Access setting, the JSS interface is inaccessible. To make additional changes, you need to manually modify the web.xml file. If you need to revert the JSS to the default setting (Full JSS), delete the web.xml file in /Library/JSS/Tomcat/webapps/ROOT/WEB-INF/ and rename the web.xml.original file to web.xml.

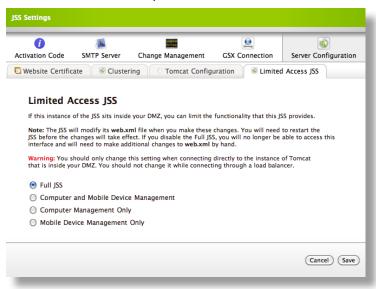
Note: If you upgraded from v8.1 or earlier, the web.xml and web.xml.original files are located in /Library/Tomcat/webapps/ROOT/WEB-INF/.

Upgrading the JSS automatically resets the Limited Access setting to Full JSS. You will need to change this setting every time you upgrade.

To change the Limited Access setting:

- 1. Use a web browser to log in to the desired instance of the JSS.
- 2. Click the **Settings** tab.
- 3. Click the **General Settings** link.
- 4. Click the Server Configuration tab.
- 5. Click the Limited Access JSS tab.

6. Select a limited access option.



- 7. Click Save.
- 8. Restart the JSS for any changes to take effect.

Frequently Asked Questions

Q. What is installed on Mac OS X Server when I install the JAMF Software Server (JSS)?

A. The following files and folders are installed on Mac OS X Server:

Apache Tomcat

Tomcat is the web application server that runs the JSS web application. A directory named Tomcat is installed at:

/Library/JSS/Tomcat/

CasperShare

The distribution point created by default for a fresh installation. The JSS Installer creates a directory named CasperShare at:

/Shared Items/CasperShare/

com.jamfsoftware.tomcat.plist

This is the launchd item that controls Tomcat. It is installed and loaded in the following location:

/Library/LaunchDaemons/com.jamfsoftware.tomcat.plist

Database backup location

The JSS Database Utility stores database backups in the following location by default:

/Library/JSS/Backups/Database/

JSS Database Utility

The JSS Database Utility is installed in the following location:

/Library/JSS/bin/JSSDatabaseUtil.jar

JSS web application

The JSS is a web application that runs on Tomcat. A directory named ROOT is installed at:

/Library/JSS/Tomcat/webapps/ROOT/

keystore

Tomcat requires a .keystore file to provide connections over SSL. The JSS Installer creates a default .keystore file and stores it in the following location:

/Library/JSS/Tomcat/.keystore

Logs

Logs for the installation and for the JSS are stored in the following directory:

/Library/JSS/Logs/

server.xml

The JSS Installer installs a modified copy of Tomcat's server.xml file. This file enables SSL, ensures that the JSS appears in the root context, and enables database connection pooling. It is installed in the following location:

/Library/JSS/Tomcat/conf/server.xml

Note: The locations of these files and folders are different if you upgraded from v8.1 or earlier and your JSS is installed on Mac OS X Server 10.6. Apache Tomcat and its related files are stored in /Library/Tomcat/ and the JSS web application (previously known as the jamf web application) is stored in /Library/Tomcat/webapps/R00T/.

Q. Can I install the JSS on other platforms?

A. Yes. You can install the JSS on any platform that supports the following software:

- Java 1.6
- MySQL 5.1 or later
- Apache Tomcat 6.0 or later

Tested operating systems include:

- Mac OS X Server 10.7
- Mac OS X Server 10.6
- Ubuntu 10.04 LTS Server
- Red Hat Enterprise Linux (RHEL) 6
- Windows Server 2008

Although you can install the JSS on any server that meets the minimum requirements, JSS Installers are only available for Mac, Linux, and Windows.

To obtain the JSS Installers for Linux and Windows and their documentation, see the introductory email that you received from JAMF Software or contact your JAMF Software Representative.

Troubleshooting the JSS

Most troubleshooting issues have to do with the configuration of Apache Tomcat or MySQL. You can use the JSS Database Utility to deal with most of the troubleshooting issues that you encounter.

This section explains how to troubleshoot the following issues:

- Connection issues
- Memory issues
- Database issues

Connection Issues

If applications are not connecting to the JAMF Software Server (JSS), you can use a web browser to troubleshoot the issue. If you are able to connect to the JSS, the applications should be able to connect as well.

To troubleshoot connection issues:

- Open a web browser and try connecting to the JSS on port 8443.
 For example, if the DNS name of the JSS is "jss.mycompany.com", try connecting to: https://jss.mycompany.com:8443/
- 2. If you are prompted to verify a certificate, accept the certificate.
- 3. If you are able to connect to the JSS, make sure that the application is pointing at the correct IP address.
 - a. Quit the application.
 - b. Hold down the Option key and re-open the application to bring up the Preferences pane.
 - c. On the Preferences pane, enter the DNS name or IP address for the JSS and then click Save.
 - d. Enter the user name and password for an administrator account to the server, and then click OK.
- If the application still fails to connect, restart Tomcat.
 For instructions on how to restart Tomcat, see the Knowledge Base article at: <u>https://jamfnation.jamfsoftware.com/article.html?id=117</u>

Memory Issues

If there is a large amount of data in the JSS, you may need to allocate additional memory to Tomcat. Tomcat displays the following error page if more memory is required:

000	Apache Tomcat/4.1.29-LE-jdk14 - Error re	eport
 + Shttp://127.0.0.1:9006/searchAp 	pplications2.html	S ~ Q- Google
apache Tomcat/4.1.29-LE		
ITTP Status 500 -		
rpe Exception report		
essage		
escription The server encountered an internal	error () that prevented it from fulfilling th	nis request.
ception		
at org apache.catalina.core.btanda at org apache.catalina.core.chtanda at org apache.catalina.core.chtanda at org apache.catalina.core.thanda at org apache.catalina.core.thanda	at ion7 literchain.internalDo7 liter(n at ion7 literchain.internalDo7 liter(n at ion7 literchain.do7 liter(n d7 ipo line.internass. d7 ip	<pre>ionFileCrhain.jeva:193) correlute.jeva:183) jeva:480) jeva:480 jeva:48</pre>

For instructions on viewing the amount of memory being used by the web application and allocating additional memory to Tomcat, see "Allocating Additional Memory to Tomcat".

Database Issues

MySQL database tables can become corrupt if:

- The JSS is running on a very slow computer to which many clients are connected.
- The server running the JSS crashed, and the database was not shut down properly.

When errors occur in the MySQL database, an alert similar to the following is displayed in the JSS:

Got error 127 from table handler

The instructions in this section explain how to:

- View the status of database tables
- Repair database tables
- Optimize database tables

To view the status of database tables:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.

- 3. Click the Database/Web Application Health link.
- 4. Click the Database Table Status link.

Repairing Database Tables

If you have a large database, it may take longer to verify the status of your database tables. Once the status of each table is returned, you may want to repair the tables that do not return an "OK" status.

To repair database tables:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Database/Web Application Health link.
- 4. Click the **Repair Database Tables** link.

Optimizing Database Tables

Optimizing database tables lets you ensure that each table's index is up to date so that you can perform database lookups as quickly as possible.

To optimize database tables:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Database/Web Application Health link.
- 4. Click the **Optimize Database Tables** link.



Chapter 2: Client Management

Building Packages

Introduction to Composer

A package is a self-contained group of files that can be deployed to remote computers or as part of the imaging process. A package consists of product or component files, such as an application and its required components, a set of fonts, a preference file, or a document. A package also contains instructions about how and where it should be installed once received by the user.

Depending on the files you want to package, Composer allows you to monitor the installation of your software or use files that already exist on your hard drive to create a package source.

You can create a package source using the following methods:

- Taking before and after snapshots of your hard drive
- Monitoring the file system
- Using pre-installed software
- Using user environment settings
- Dragging contents from the Finder into Composer
- Using an existing package

After you have verified the contents of a package source, Composer gives you the option to build a PKG or a DMG based on how you intend to use and deploy the package.

Composer also allows you to build a disk image of a pre-configured operating system.

Creating a Package Source

A package source allows you to view and edit attributes of the package (such as files, scripts, permissions, and localizations) before it is built. Once a package source exists for a group of files, you can make modifications and build the package as many times as necessary.

You can create a package source using the following methods:

- Snapshots—Composer takes before and after snapshots of your boot partition and creates a package source based on the changes. This method allows you to monitor installations in all locations on the boot drive. If necessary, you can also quit Composer or log out/reboot during the installation process.
- File system monitoring—Composer uses the File System Events (FSEvents) framework to monitor any changes that are made to the file system during the installation process. A package source is then created based on the changes. This method does not allow you to quit Composer or log in/reboot during the installation process. In addition, an excess of file system activity can cause FSEvents to miss changes.
- Using pre-installed software—Software that is pre-installed on your computer can be used to create a package source based on Composer's package manifests. This method allows you to create package sources without monitoring the installation process.
- Using user environment settings—Composer's package manifests can also be used to capture settings configured on your computer, such as Dashboard, Display, and Global Preference settings.
- Dragging contents from the Finder—A simple drag-and-drop process allows you to create a package source from files already installed on your computer.
- Using an existing package—Composer allows you to make modifications to an existing package or convert between the PKG and DMG package formats.

This section explains how to create package sources using these six methods.

Taking Snapshots

If the files you want to package are not already installed on your hard drive, Composer can take a snapshot of your boot partition before and after the files have been installed and create a package source based on the changes.

Composer can take two kinds of snapshots:

- Normal snapshots—These snapshots capture any new files on the boot drive. These snapshots can take anywhere from ten seconds to several minutes depending on your hardware and the number of files on your boot drive.
- New and modified snapshots—These snapshots capture any new files on the boot drive, as well as any files that have been modified. These snapshots can take longer than normal snapshots, since Composer records the modifications date of each file while performing the snapshot.

There are several benefits to using the snapshot approach:

- Composer monitors installations in all locations on the boot drive.
- You can quit Composer during the installation process.
- You can log out or reboot during the installation process.

 If you delete a file while making modifications to a package source, it may be possible to restore the deleted file. For more information about restoring deleted files, see the "Editing a Package Source" section.

To create a package source by taking snapshots:

- 1. Open Composer and authenticate locally.
- 2. Click the **New** button in the toolbar.
- 3. Under the Monitor Installation heading in the sidebar, select **Snapshot**.
- 4. Select Normal Snapshot or New & Modified Snapshot, and then click Next.

Monitoring Installation Snapshot		\bigcirc	
Operating System		-	
Build OS Package	Normal	New & Modified	Monitor File
Package Manifests	Snapshot	Snapshot	System Changes
▶ Pre-Installed Software User Environment	snapsh		for any new files on the boot drive. A and after the installation process, and then pared.

5. Enter a name for the package and click **Next**.

Choose a name for your packag	je:	
Package Name	Previous	Next

6. Install and configure your software, and then click the **Create Package Source** button to initialize the "after" snapshot.

00	Composer
New Build as DMG Build as PKG	Q
New Build as DMC SOURCES Packages Cancel	Perform your Installation Install and configure your software. When you are done, click Create Package Source below.
Cancel	Liteate vackage source

Monitoring the File System

When creating a package source using file system monitoring, Composer uses the File System Events (FSEvents) framework that is built into Mac OS X to monitor any changes that are made to the file system. Each time a change is made, FSEvents receives a notification. After your software is installed, Composer analyzes the changes and creates a package source based on the results.

The following limitations should be taken into consideration when monitoring the file system to create a package source:

- You cannot quit Composer during the installation process.
- You cannot log in or restart during the installation process.
- It is possible for FSEvents to miss events if there is too much file system activity.

To create a package source by monitoring the file system:

- 1. Open Composer and authenticate locally.
- 2. Click the **New** button in the toolbar.
- 3. Under the Monitor Installation heading in the sidebar, select **Snapshot**.

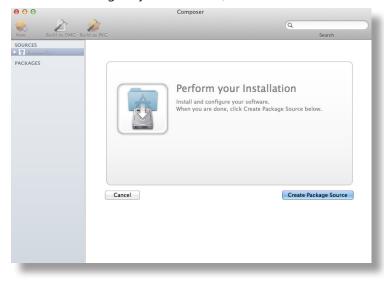
4. Select Monitor File System Changes and click Next.

Monitoring Installation				
Snapshot				
Operating System				
Build OS Package	Normal	New & Modified	Monitor File	
Package Manifests	Snapshot	Snapshot	System Changes	
▶ Pre-Installed Software User Environment	WARNI		iges to the file system using FSEvents ises heavy enough file system activity oring will miss events.	

5. Enter a name for the package and click **Next**.

Choose a name for your package:	
 Cancel	Previous Next

6. Install and configure your software, and then click the **Create Package Source** button.



Creating a Package Source from Pre-Installed Software

You can create a package source from software that is currently installed on your computer if Composer contains a package manifest for the software.

Composer comes with package manifests for over 100 different software titles. To determine which pre-installed software Composer can package, select **Pre-Installed Software** under the Package Manifests heading. Composer scans your hard drive and displays icons for the software it can package.

Note: If there is software you would like added to Composer's package manifest options, email your recommendations to <u>diffs@jamfsoftware.com</u>.

To create a package source from pre-installed software:

- 1. Open Composer and authenticate locally.
- 2. Click the **New** button in the toolbar.
- 3. Under the Package Manifests heading in the sidebar, select **Pre-Installed Software**.
- 4. Select the item(s) you want to create a package source from, and then click Next.



Creating a Package Source from User Environment Settings

You can create a package source that captures the look-and-feel of your computer's interface, such as Dashboard, Display, and Global Preference settings. If Composer contains a package manifest for the setting you want to capture, you can create a package source from it.

Composer comes with package manifests for over a dozen different settings. To determine which of your current settings Composer can package, select **User Environment** under the Package Manifests heading. Composer scans your hard drive and displays icons for the settings that it can package.

Note: If there is a setting you would like added to Composer's package manifest options, email your recommendations to <u>diffs@jamfsoftware.com</u>.

To create a package source from user environment settings:

- 1. Open Composer and authenticate locally.
- 2. Click the **New** button in the toolbar.
- 3. Under the Package Manifests heading in the sidebar, select **User Environment**.
- 4. Select the item(s) you want to create a package source from, and then click **Next**.



Creating a Package Source by Dragging Contents from the Finder

If you already know which item you want to package, you can bypass the snapshot or monitoring process by dragging items from the Finder to the Sources list in Composer.

There are a few ways Composer handles these items:

- If the item is a package file (with a .dmg, .pkg, or .mpkg extension), it is listed in the sidebar under the Packages heading.
- If the item is a folder, the root of the folder is used as the root of the package if it is one of the following directories:

```
/Applications/
/Developer/
/Library/
/System/
/Users/
/bin/
/private/
/sbin/
/usr/
```

• Any other items are copied to their current location.

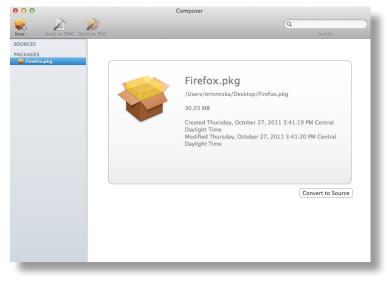
Note: This is the equivalent of a PreBuilt package in earlier versions of Composer.

Creating a Package Source from an Existing Package

Composer allows you to rebuild an existing package file (.pkg, .dmg, or .mpkg) by converting it to a package source. After converting it to a package source, you can make changes to its contents and save a new copy of the package.

To create a package source from an existing package:

- 1. Open Composer and authenticate locally.
- 2. Drag the package you want to convert from the Finder to the sidebar in Composer. The package will appear under the Packages heading.
- 3. Select the package, and then click the **Convert to Source** button.



4. When the conversion is complete, a new package source is listed in the sidebar under the Sources heading.

0 0		Composer		
-	2		Q	
New Build as DMG				Search
SOURCES	▼			
▶ 🥪 Firefox	Firefox.app			
PACKAGES	Library Gers			
	-	Owner Group	root (0) + admin (80) +	R W X マ マ マ マ マ マ
	Applications			🗹 🔲 🗹 🏼 🎘 Mode: 775

Editing a Package Source

If a file is listed in the sidebar under the Sources list in the sidebar, it exists as a package source and can be modified. If a file is not listed in the sidebar under the Sources list, a package source must be created before you can utilize the editing functions described in this section. See "Creating a Package Source" for more information about creating a package source.

Note: Composer does not allow you to create a package source from an OS package.

This section explains how to make the following modifications to a package source:

- View and edit the contents of the package source
- Add scripts
- Edit the info.plist and description.plist files
- Add localizations

Viewing and Editing the Contents

Once a package source exists for the files you want to package, Composer allows you to edit the contents of the package source in the following ways:

- Delete files that should not be included in the package
- Add files by dragging them into Composer from the Finder
- Modify permissions on a file or folder
- Restore files that were deleted from the package source

In addition to viewing files or folders through Composer's interface, you can view this information in the Finder or using Quick Look.

Deleting Files or Folders

Select the item(s) you want to delete from your package source in Composer's Package Contents pane. Choose "Delete" from the Edit menu.

Adding Files

Drag the file(s) you want to add to your package source from the Finder into Composer's Package Contents pane.

Modifying Permissions on a File or Folder

Select a file or folder in Composer's Package Contents pane to display its permissions in the bottom of the window. You can change the permissions using this display. Changes are saved automatically. If the selected item is a folder, you can apply the permissions that exist on the folder to each enclosed item by clicking the **Action** button (labeled with the gear icon) to the right of the X-column.

Restoring a Deleted File or Folder

If you delete a file from the Package Contents pane, it may be possible to restore the file. The ability to restore a deleted file depends on the type of snapshot used to create the package source and the location of the file that was deleted. To restore a deleted file, Composer copies the file from its original location on the hard drive.

Note: A file can only be restored if a snapshot was used to create the package source.

To restore a deleted file:

- 1. Click the disclosure triangle next to the package source in the sidebar.
- 2. Click the disclosure triangle next to **Snapshots**.
- 3. Select Files for Package to display a list of files, folders, and directories from the snapshot.
- 4. Select the item you want to restore.
- 5. Control-click (or right-click) the selected item and choose Restore.

Viewing a File or Folder Using the Finder

In the Package Contents pane, select the item(s) you want to preview and choose "Reveal in Finder" from the File menu.

Viewing a File or Folder Using Quick Look

In the Package Contents pane, select the item(s) you want to preview and choose "Quick Look" from the File menu or press the Space bar.

Note: Quick Look is supported by Mac OS X v10.5 or later.

Adding Scripts

Composer allows you to manage scripts for PKGs. The following default scripts are available in shell and perl:

- InstallationCheck
- Postflight
- Postinstall
- Postupgrade
- Preflight
- Preinstall
- Preuparade
- VolumeCheck

Note: Flat PKGs support Preinstall and Postinstall scripts only. To build a PKG that contains other scripts, you can deselect the **Build Flat PKGs** option in Composer preferences, or you can disable this preference for a single package. For information on how to disable this preference for a single package, see "Building a PKG". For more information on flat PKGs, see "Managing Composer Preferences".

These scripts read in the available parameters that are received from the installer and give descriptions for the supported exit codes.

Composer also attempts to verify that the script syntax is valid. If a script appears to have invalid syntax, a warning icon appears.

To view the error that occurred while Composer was verifying the script, Control-click (or right-click) the script and choose **Compile Script**.

Note: InstallationCheck and VolumeCheck scripts have warning and failure messages that can be localized according to the needs of the user. To localize these messages, the corresponding .strings file (InstallationCheck.strings or VolumeCheck.strings) must be created for each localization.

To add a script to a package source:

- 1. Click the disclosure triangle next to the package source in the sidebar.
- 2. Control-click (or right-click) **Scripts** and choose the script you want to add.

w Build as DMG Build as P IRCES Firefox 7.0			Search
Ser Add Perl Script	Þ	InstallationCheck postfilght postinstall postupgrade preflight preinstall preupgrade VolumeCheck	Scripts To add a script to the package, right-click the Scripts folder and select the script you wish to add. There are default scripts in Perl and Bash for all 8 scripts that are supported for a package. Scripts are only added to PKGs.

The script is displayed under the Scripts heading in the sidebar.

3. (Optional) Select the script in the sidebar to view or modify its contents.

Adding a Postflight Script that Removes Deleted Files from Clients

Adding a postflight script to a package source allows you to remove deprecated or unneeded files from client computers as clients install the package.

Note: This function is only available if a snapshot was used to create the package source.

To add a postflight script that removes deleted files from clients:

- 1. Click the disclosure triangle next to the package source in the sidebar.
- 2. Click the disclosure triangle next to **Snapshots**.
- 3. Select the Deleted Files heading to view the deleted files captured by the snapshot.
- 4. Control-click (or right-click) the Deleted Files heading and choose Add postflight Shell Script.

$\Theta \circ \circ$	Compo	oser	
New Build as DMG Bui	id as PKG	٩	Search
Files For Pack	/ DocumentRevisions-V100/PerUID/S0 /private/tmp/JAMFLocalAdminTaskStd /DocumentRevisions-V100/PerUID/S0 ipostflight Perl Script //PerUID/S0 /postflight Perl Script //PerUID/S0 /postflight Shell Script //PerUID/S0 /.DocumentRevisions-V100/PerUID/S0 /.DocumentRevisions-V100/PerUID/S0 /.DocumentRevisions-V100/PerUID/S0 /.DocumentRevisions-V100/PerUID/S0 /.DocumentRevisions-V100/PerUID/S0 /.DocumentRevisions-V100/PerUID/S0 /.DocumentRevisions-V100/PerUID/S0 /.DocumentRevisions-V100/PerUID/S0	2/2d/com.apple.documentVersions/7E1FD9 2/2d 2/30/com.apple.documentVersions/A2C46 2/2c ation State/com.apple.Safari.savedState/win 2/30/com.apple.documentVersions 2/20/com.apple.documentVersions/8EF26E 2/30/com.apple.documentVersions/8EF26E	08-7054-4FD2-8D95- 103-038C-401D-800C- 4E6-6DA9-4557-AC71- dow_208.data D1E-10C7-4A8F-9FFA-/ 266-34D4-4FA9-895E-

The script is displayed under the Scripts heading in the sidebar.

5. (Optional) Select the script in the sidebar to view or modify its contents.

Editing Info.plist and Description.plist Files

Information property list (info.plist) files and description property list (description.plist) files are used by the Installer application to display information about a package and determine how it is installed. Composer allows you to edit the most commonly used information in these files.

This section explains how to edit these files.

Info.plist File

The info.plist file contains configuration information for a package. Composer allows you to define the info.plist keys and values shown in the screen shot below. After the screen shot, there is a list that further explains each key and value.

● ○ ○	Compo	ser	
New Build as DMG Build as PI		Q. Search	
SOURCES V Firefox 7.0 Scripts V Settings V English.lproj Description.plist	Info.plist		1
Info.plist	Bundle Identifier:	org.mozilla.firefox	
Snapshots	Get Info String:	Firefox 7.0	
PACKAGES	Version:	7.0	
		IF Major Version: 7	
		IF Minor Version: 0	
	Restart Action:	None \$	
	Authorization Action:	Root Authorization \$	
		Root Volume Only	

Bundle Identifier

Identifies the package type. For example, com.jamfsoftware.composer

Get Info String

Provides a description of the package. For example, Composer 7.01 © 2009

Version

Identifies the iteration. For example, 7.01

IF Major Version

Identifies the major version number.

IF Minor Version

Identifies the minor version number.

Restart Action Specifies reboot protocol for a package.

Authorization Action

Specifies authorization requirements.

Root Volume Only

Indicates the package can only be installed to the root volume.

Less commonly used keys and values are also contained in the info.plist file. If you need to edit these items, Control-click (or right-click) **Info.plist** in the sidebar and select **Edit Manually**. This allows you to add or edit items in raw XML format.

Description.plist File

The description.plist file allows you to define how a package presents itself in the Installer application.

Each localization includes its own description.plist file that allows you to define a package's description title and description based on the target language.

00	Composer	
New Build as DMG Build as	r PKG	Q
SOURCES	Description.plist Description Title: Firefor Description:	×7.0

There are other keys and values contained in the description.plist file. If you need to edit these items, Control-click (or right-click) **Description.plist** in the sidebar and select **Edit Manually**. This allows you to add or edit items in raw XML format.

Adding Localizations

Localizations allow you to customize the language in which package information is displayed to a user. By default, a package source only includes an English localization.

Composer includes defaults for the following localizations supported by the PKG format:

- da.lproj
- Dutch.lproj
- English.lproj
- Fi.lproj
- French.lproj
- German.lproj
- Italian.lproj
- Japanese.lproj
- ko.lproj

- no.lproj
- pl.lproj
- pt_PT.lproj
- pt.lproj
- ru.lproj
- Spanish.lproj
- sv.lproj
- zh_CN.lproj
- zh_TW.lproj

To add a localization to a package source:

- 1. Click the disclosure triangle next to the package source in the sidebar.
- 2. Control-click (or right-click) Settings and choose the localization that you want to add.

0		Composer
÷	Build as DMG Build as PKG	(Q. Search
RCES Firefox	pts	
Sn KAGE	Add Localization for da.lproj Add Localization for Dutch.lproj Add Localization for French.lproj Add Localization for French.lproj Add Localization for Italian.lproj Add Localization for Italian.lproj Add Localization for no.lproj Add Localization for no.lproj Add Localization for np.lproj Add Localization for pt.lproj Add Localization for pt.lproj	Settings Package settings allow you to modify the Info.plist file. You can add Description.plist files for different languages by right-clicking the Settings folder. By right-clicking a localization folder, you can add the corresponding strings files for the package. These settings are only applied to PKGs.
	Add Localization for Spanish.lproj Add Localization for sv.lproj Add Localization for sv.lproj Add Localization for zh_CN.lproj Add Localization for zh_TW.lproj	

Adding and Editing Files for a Localization

You can include two types of files in a localization:

- Description.plist files—These files display the title of a package and its description in the Installer application. Each localization contains a description.plist file by default. For instructions on how to edit these files, see "Editing Info.plist and Description.plist Files."
- Strings files—VolumeCheck.strings and InstallationCheck.strings files are used to localize warning and error messages. These files are only effective when used in conjunction with their corresponding scripts (VolumeCheck and InstallationCheck). For instructions on how to add VolumeCheck and InstallationCheck scripts to a package source, see "Adding Scripts".

To add InstallationCheck.strings or VolumeCheck.strings:

- 1. Click the disclosure triangle next to the package source in the sidebar.
- 2. Click the disclosure triangle next to **Settings**.

3. Control-click (or right-click) the language folder you want to add the .strings file to, and select Create InstallationCheck.strings or Create VolumeCheck.strings.

● ● ●		Composer	
New Build as DMG Build	d as PKG		Q Search
COURCES	tallationCheck.strings umeCheck.strings	Settings Package settings allow you to You can add Description.plist right-clicking the Settings fo By right-clicking a localizatio corresponding strings files fo These settings are only applie	t files for different languages by Ider. on folder, you can add the or the package.

4. Click the .strings file to modify its contents in the Package Contents pane.

Building a Package from a Package Source

After you have verified the contents of a package source, Composer allows you to build two different types of packages: PKGs and DMGs. Each format has advantages depending on the intended use of the package and the tool you use to deploy it.

Once a package source exists in Composer, you can build a PKG or DMG package from the source at any time. You also have the ability to convert from one format to another after a package has been built. For more information about converting between the PKG and DMG formats, see "Creating a Package Source from an Existing Package."

This section explains how to build PKGs and DMGs.

Building a PKG

PKGs can be deployed using almost any deployment tool, such as Apple Remote Desktop (ARD), the Casper Suite, and other client management systems.

The PKG format allows for easy installation by the user. Double-clicking the package file opens the Installer application and guides the user through the installation process.

Note: PKGs cannot dynamically deploy files in the user's home directory to user templates when used with the Casper Suite.

By default, Composer builds flat PKGs. For more information on flat PKGs, see "Managing Composer Preferences".

To build a PKG:

- 1. Select the package source you want to build as a PKG from the Sources list in the sidebar.
- 2. Click the Build as PKG button in the toolbar.

Note: If the Build flat PKGs preference is enabled and the package source contains scripts that are unsupported by flat PKGs, a dialog will appear. To disable this preference for this package only, click **Build as non-flat PKG**. To build a flat PKG that ignores unsupported scripts, click **Build as flat PKG**. For more information on which scripts are supported by flat PKGs, see "Adding Scripts".

3. Select a location to save the package and click **Save**.

Building a DMG

When used in conjunction with the Casper Suite, the DMG format allows you to dynamically deploy files and folders to each user that has an account on a computer, as well as the network home directories of currently logged-in users. There is also an option to deploy files and folders to the user template directories, ensuring that any new user receives the correct default environment.

To build a DMG:

- 1. Select the package source you want to build as a DMG from the Sources list in the sidebar.
- 2. Click the **Build as DMG** button in the toolbar.
- 3. Select a location to save the package and click **Save**.

Building an OS Package

In addition to building deployable packages of applications and other files, Composer allows you to build DMGs of pre-configured operating systems. OS packages can save you time and enhance consistency across your network.

While building an OS package with Composer is similar to building one with the Disk Utility application, Composer allows you to clean up the OS by removing unnecessary files before building the DMG.

You can use Composer to manage the following cleanup options for an OS package:

Compress Disk Image

This option compresses the OS package DMG.

Delete Temp Files

This option ensures the files in /private/tmp are deleted before building an OS package. These files are usually deleted during the startup process.

Delete Virtual Memory Files

This option ensures that Virtual Memory files are deleted before building an OS package, including the potentially large sleepfile. These files are usually deleted and recreated during the startup process.

Delete Special Files

Apple recommends deleting the following files before building an OS package: /private/var/db/BootCache.playlist /private/var/db/volinfo.database

This option ensures that these files are deleted.

Delete Caches

This option removes files in the /Library/Caches directory before building an OS package.

Remove Kerberos Certificate

This option removes existing Kerberos certificates before building an OS package, preventing the "This computer already exists" error when attempting to bind a computer securely to Open Directory.

Ensure Trashes are Empty

This option empties the Trash for any user with items in the $\sim /$. Trash folder. It also updates a user's com.apple.dock.plist file to reflect that the Trash is empty.

Configuring the OS

Before building your OS package, consider performing the following tasks to ensure the OS is completely configured to your environment:

- Install a clean copy of Mac OS X.
- Create the main admin account.
- For security purposes, create a secondary admin account to be used with Secure Shell (SSH, or remote login in Mac OS X).
- Activate SSH.
- Secure SSH by allowing only a single user or group access.
- Perform any other system security fortification.
- Configure miscellaneous settings, such as
 - Energy Saver settings
 - Keyboard and mouse settings
 - Network settings
 - QuickTime settings
 - Sharing settings
 - Login Window settings
 - Auto-login settings
 - Name and password or list of users
- Run all available software updates.
- Turn off the Software Update schedule.
- Confirm Universal Access settings.
- Confirm Directory Access settings.
- LDAPv3 bindings can often be built into your image.
- Active Directory bindings should not be built into the image. Each computer must join the domain.
- Make sure the Trash is empty.

Packaging the OS

When you're finished configuring the OS, boot to another Mac OS X volume to build the DMG.

To build an OS package:

- 1. Open Composer and authenticate locally.
- 2. Click the **New** button in the toolbar.
- 3. Under the Operating System heading in the sidebar, select **Build OS Package**.
- 4. Select the disk you want to package and click Next.

5. Choose options for removing unnecessary files from the package, and then click **Next**.

	Choose options for building your OS package:
	Compress disk image
	Delete temp files
	Delete virtual memory files
	☑ Delete special files
	☑ Delete caches
	Remove Kerberos certificate
	Ensure trashes are empty
	Delete MCX records in the local directory service
(Cancel Previous Next

6. Enter a package name and select a location to save the package, and then click **Build**.

Managing Composer Preferences

Composer lets you manage the following settings:

- Toolbar preferences
- Package preferences
- Cleanup options for OS packages
- Excluded files
- Location of the work directory
- Default bundle identifier

You can access Composer preferences by choosing "Preferences" from the Composer menu.

The information in this section provides a detailed explanation of Composer preferences.

Toolbar Preferences

Composer allows you to customize the toolbar by adding and removing items.

To add items to Composer's toolbar, Control-click (or right-click) the toolbar and select **Customize toolbar**. Then drag desired items to the toolbar.

To remove an item from Composer's toolbar, simply drag the item off of the toolbar.



Package Preferences

Composer allows you to manage Package preferences from the pane in the screen shot below.



This pane includes the following preference settings:

Build flat PKGs

By default, Composer builds flat PKGs. Flat PKGs consist of a single file and allow for easier and more reliable deployment than non-flat PKGs. You cannot view or modify the contents of a flat PKG after it is built.

Remove .DS_Store Files in Common Locations

Enabling this option ensures the removal of any files that disturb the way Finder windows are presented on a user's computer. Any .DS_Store files necessary to configure views of deployed files and folders will not be removed.

This feature removes . DS_Store files in the following locations:

/.DS_Store
/Applications/.DS_Store
/Applications/Utilities/.DS_Store
/Developer/.DS_Store
/Library/.DS_Store
/System/.DS_Store
/Users/.DS_Store
/Users/ <username>/.DS_Store</username>
/Users/ <username>/<first_level_directory>/.DS_Store</first_level_directory></username>

Scan Images When Building DMGs

Scanning images when building a DMG calculates the checksum of the DMG and stores it in the disk image file.

The checksum is used to ensure proper installation of the DMG package.

Play Sounds

Composer plays a sound each time a package source is created or deleted.

Reveal in Finder when done

When this option is enabled, Composer reveals newly built packages in a Finder window.

Exclusion List

The exclusion list allows you to specify files and folders that should be ignored when creating a package using a snapshot or file system monitoring.

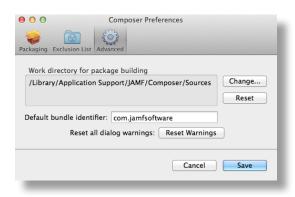
To view the exclusion list, click the **Exclusion List** button in the toolbar. A list of common files and folders is provided by default.

To add and remove files, use the Add (+) and Delete (-) buttons at the bottom of the list.



Advanced Preferences

Composer allows you to manage some advanced preferences from the pane in the screen shot below.



This pane includes the following preference settings:

Work Directory

When Composer creates a package source, files are copied from the hard drive to a work directory. This work directory must reside on a volume that has permissions enabled.

To change this directory, click the **Change** button, or hold down the Option key when you open Composer.

Default Bundle Identifier

The default bundle identifier is used when creating the info.plist file for a new package source. For example, if the default bundle identifier is "com.jamfsoftware", and a package source named "Composer" is created, the bundle identifier for the package source is "com.jamfsoftware. composer".

Building Your Client Management Framework

Integrating with LDAP Servers

If you utilize one or more directory services to store information about the users in your organization, you can integrate the JAMF Software Server (JSS) with the directory service(s) to do the following:

- Look up and populate user information for inventory purposes
- Authenticate users to the Casper Suite
- Authenticate users to Self Service
- Assign policies and Managed Preference Profiles to user groups

Note: Integrating with Open Directory lets the JSS access both user and computer list information. For details on accessing computer list information from Open Directory, see the "Adding an LDAP Server Connection Manually" section.

This section explains how to do the following:

- Add an LDAP server connection using the LDAP Server Connection Assistant or manually
- Test LDAP server connections
- Edit and delete LDAP server connections
- Troubleshoot an LDAP server connection

Using the LDAP Server Connection Assistant

The LDAP Server Connection Assistant is designed to walk you through the process of adding an LDAP server connection to the JSS.

You can use the assistant to integrate with the following directory services:

- Apple's Open Directory
- Microsoft's Active Directory
- Novell's eDirectory

Note: To integrate with other directory services or access computer list information from Open Directory, you must configure the connection manually.

To use the LDAP Server Connection Assistant:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the LDAP Server Connection link.
- 4. Click the Add LDAP Server Connection button.
- 5. Choose the LDAP server you want to integrate with and click the **Continue** button.
- 6. Enter the host name (DNS name or IP address) for the LDAP server and click **Continue**.
- 7. Specify credentials for the LDAP server's service account and click **Continue**.
- 8. For testing purposes, enter the user names for two different accounts in the LDAP server and click **Continue**.
- 9. Verify the returned attribute mappings are correct and click **Continue**.

erver Informati	on (Credentials M	appings Com	plete •
erifv Attrib	oute Mappings			
rify that the attrib	outes from your LDAP s	erver are mapped correctly to the ellipsis button across from it.	e JSS.	
ISS User Attribute	LDAP User Attribute	Value for bcrocker_OD	Value for dsmith_OD	
Username:	uid	bcrocker_OD	dsmith_OD	
Realname:	cn	Betty Crocker	Dave Smith	
Email:	mail	bcrocker@jamfsoftware.com	dsmith@jamfsoftware.com	•
Phone:				
Department:				
Building:				
Room:				
Position:				

- 10. If you need to change a mapping:
 - a. Click the Ellipsis button across from the mapping.
 - b. Choose the correct value for the attribute from one of the pop-up menus.

Server Information	Credentials	Mappings	Complete
		•	
	Email	nus, and then click the Return	to Verify Mannings button
_	nail	nus, and then thick the Return	to verify mappings button.
alue for bcrocker_OD:	crocker@jamfsoftware.com		\$
Value for dsmith_OD:	lsmith@jamfsoftware.com		\$

c. Click the Return to Attribute Mappings button.

- d. Verify the changes are correct and click the **Continue** button.
- 11. For testing purposes, enter the names of two different user groups in the LDAP server and click **Continue**.
- 12. Verify the group membership status of each test user is correct and click **Continue**.

Server Information	1	Credentials	Mappings O	Complete
Verify Group F	Result	s		
/erify that the member	rshin statu	is for each user is correct.		
			ext pane to verify group membersh	nip mappings.
f the results are incorre	rect, use th	ne Edit Manually button on the ne		nip mappings.
f the results are incorre			ext pane to verify group membersh dsmith_OD's Membership Status Not a member	nip mappings.
f the results are incorre	rect, use th Name	e Edit Manually button on the ne	dsmith_OD's Membership Status	nip mappings.
f the results are incorre	rect, use th Name Staff	ne Edit Manually button on the ne bcrocker_OD's Membership Status Not a member	dsmith_OD's Membership Status Not a member	iip mappings.

13. Click **Save** to save the LDAP server connection and continue using the JSS.

If you want to make changes before you save the connection, click the **Edit Manually** button, make the necessary changes, and then click the **Save** button.

Adding an LDAP Server Connection Manually

Before adding an LDAP server connection manually, it is important that you are familiar with search bases, object classes, and attributes. If you are not familiar with these concepts, use the LDAP Server Connection Assistant to ensure attributes are mapped correctly.

Adding the connection manually allows you to do the following:

- integrate with directory servers other than Open Directory, Active Directory, and Novell eDirectory
- access computer list information from Open Directory

After adding the connection, test it to make sure it's working properly. See the "Testing an LDAP Server Connection" section for testing instructions.

This section provides an overview of the Connection and Mappings panes you'll use to add the connection and step-by-step instructions on how to do so.

Connection Pane

This pane lets you configure how the JSS connects to an LDAP server.

Edit	LDAP Serv	ver Connection	
	0	22	
Cor	nnection	Mappings	
		Display Name: Host name:	
	Create	Use for: Mappings Based On: Domain:	Open Directory (OS X Server)
		Authentication Type:	None
		n/Close times out in: nnection times out in: Referrals:	
			Cancel Save

Display name

This field lets you specify a display name for the LDAP server.

Host name

This field lets you specify the DNS name or IP address for the LDAP server.

Encrypt Using SSL

You must select this checkbox if you want to connect to the LDAP server over SSL.

Note: For this to work, the LDAP server must have SSL enabled.

Use custom port

If the LDAP server is not running on the standard port, you must select this checkbox and enter the port on which it is running.

Use for

This pop-up menu lets you specify the type of information you want to access from the LDAP server.

Create Mappings Based On

This pop-up menu lets you select the LDAP server you want to connect to.

Domain

This field lets you enter the LDAP server's domain.

Authentication Type

If the LDAP server requires authentication, specify the authentication type using this pop-up menu. After choosing an authentication type, two additional fields appear in which you can enter credentials for the LDAP server's service account.

Most LDAP servers require simple authentication.

Open/Close times out in _____ seconds

This field lets you specify the maximum number of seconds you want to wait for the server to open or close a connection before it times out.

Connection times out in _____ seconds

This field lets you specify the maximum number of seconds you want to wait for the server to return results before the connection times out.

Referrals

This pop-up menu lets you specify whether to ignore, follow, or utilize default LDAP referrals to locate information.

Use wildcards when searching for objects

Select this checkbox if you want the JSS to return partial matches when searching the LDAP server for information.

Mappings Pane

This pane lets you map attributes and specify object class and search base data.

If you're not familiar with these concepts, use the LDAP Server Connection Assistant to add the connection.

Edit LDAP Serv	er Connection	
() Connection	Mappings	
Users		
ObjectC Search E	ass	ap Users to All Constant ObjectClass values below (Comma separated)
		🖲 all subtrees 🔘 first level only
		Map User ID to:
		Map Username to: Map Real Name to:
		Map Email Address to:
		Append to email results: Map Department to:
		Map Building to:
		Map Room to:
		Map Phone to: Map Position to:
		J
		Map Position to:

To configure an LDAP server connection manually:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the LDAP Server Connection link.
- 4. Click the Add LDAP Server Connection button.
- 5. Select the **Configure manually** option and click the **Continue** button.
- 6. Configure the connection using the information on the Connection and Mappings panes.
- 7. Click the **Save** button.

Testing an LDAP Server Connection

Before using an LDAP server connection as part of your framework, test the connection by looking up user (or computer list) information. If the results are returned correctly, the connection is working.

The instructions in this section explain how to look up user and computer list information.

To look up user information from an LDAP server:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the LDAP Server Connection link.
- 4. Click the Test Connection link across from the connection you want to test.

		LDAP Server Co	nnections			
-				-	-	
LDA	P Server Connection					
LDA	P Server Connection	Hostname	Used For			

- 5. To look up a user:
 - a. Click the **User Lookup** tab.
 - b. Enter a user name.

User Lookup Us	er Group Lookup		
	er Group Lookup	User Group Membership Lookup	

- c. Click the **Test** button.
- 6. To look up a user group:
 - a. Click the User Group Lookup tab.
 - b. Enter the group name.

1	11	11
Jser Lookup	User Group Lookup	User Group Membership Lookup
	Look up user g	roup:
	Look up user g	roup:
	Look up user g	roup:

- c. Click the **Test** button.
- 7. To look up a user group membership:
 - a. Click the User Groups Membership Lookup tab.
 - b. Enter a user name in the field labeled **Check if username**.

Test LDAP Server Connection: OD Connection							
L User Lookup	User Group Lookup	User Group Membership Lookup					
	Check if username:						
_			Cancel (Test)				

- c. Enter a group name in the field labeled Is a member of group.
- d. Click the **Test** button.

To look up computer list information from Open Directory:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the LDAP Servers Connection link.
- 4. Click the Test Connection link next to the Open Directory connection you want to test.

					
LDA	P Server Connection				
LDA	P Server Connection				
LDA	P Server Connection	Hostname	Used For		

- 5. To look up a computer:
 - a. Click the **Computer Lookup** tab.
 - b. Enter a computer name.
 - c. Click the **Test** button.
- 6. To look up a computer group:
 - a. Click the Computer Group Lookup tab.
 - b. Enter a group name.
 - c. Click the **Test** button.
- 7. To look up a computer group membership:
 - a. Click the Computer Group Membership Lookup tab.
 - b. Enter a MAC address in the field labeled Check if computer with MAC address.
 - c. Enter a group name in the field labeled **Is a member of group**.
 - d. Click the **Test** button.

Editing and Deleting an LDAP Server Connection

The instructions in this section explain how to edit and delete an LDAP server connection.

To edit an LDAP server connection:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the LDAP Servers Connection link.
- Click the Edit link across from the connection you want to edit and make changes manually.
 For more information about the Connection and Mappings panes, see the "Adding an LDAP Server Connection Manually" section.
- 5. Click the **Save** button.

To delete an LDAP server connection:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the LDAP Servers Connection link.
- 4. Click the **Delete** link across from the connection you want to delete.
- 5. Click the **Delete** button.

Tools for Troubleshooting LDAP Server Connections

This section describes two tools you can use to troubleshoot the connection between the JSS and an LDAP server.

Apache Directory LDAP Studio

The Apache Directory LDAP Studio lets you to connect to an LDAP server to pinpoint initial connections and find search bases and mappings. You can download Apache Directory LDAP Studio at:

http://directory.apache.org/studio/

Workgroup Manager

Apple's Workgroup Manager lets you view detailed information for individual LDAP server accounts.

To view LDAP information using Workgroup Manager:

- 1. Open Workgroup Manager.
- 2. Connect to your server.
- 3. Navigate to Workgroup Manager > Preferences.
- 4. Select the checkbox labeled Show "All Records" tab and inspector, and then click OK.
- 5. Click the All Records tab (target icon) displayed in the sidebar to view the records.

Managing JSS User Accounts

The JAMF Software Server (JSS) is a multi-user application. You can grant different levels of access to each user by setting up JSS user accounts and assigning different privileges to each one.

Individual JSS user accounts can be created manually or—if you have an LDAP server connection set up—added from a directory server. You can also grant access to groups from an LDAP server.

The instructions in this section explain how to do the following:

- Create a new user account in the JSS
- Add a user account from an LDAP server
- Upgrade the Distinguished Name (DN) from an LDAP account
- Grant access to a group from an LDAP server

Note: JSS users added from an LDAP server receive the privileges assigned to their individual user accounts. LDAP members that don't have individual accounts in the JSS, but are members of one or more groups with access, receive the privileges assigned to each group.

Important: It is recommended that you have at least one JSS user account that is not from an LDAP server in case the connection between the JSS and the LDAP server is interrupted.

To create a new user account in the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Accounts link.
- 4. Click the **Create New Account** button.

			Accounts and Gro	ups	
_			L .	11.	
	lew Account	Add Assourt	nt from LDAP Add Grou	p from LDAP	
ate N	iew Account	Add Accour	It from LDAP Add Grou	p nom Lova	
eate N	iew Account	Add Accour	it from LDAP Add Grou		
	ounts	Add Accour	it from LDAP Add Grou	p nom EDAr	
		Real Name	Email Address	Phone Number	

5. Enter user information on the Account pane.

Create New	Account			
Account	Privileges	API Privileges	Notifications	
		Username: Realname:	JSS User	
		Email Address: Phone:		
		Password: Verify Password:		
				Cancel Save

6. Click the **Privileges** tab and select the checkbox next to each privilege you want to grant the user.

Create New				
Account	Privileges	API Privileges	Notifications	
	Grant All Pri Revoke All P	vileges rivileges		
		JSS – Hom	e Tab Privileges	
	🗹 Chan	ge Password		
		JSS – Invent	ory Tab Privileges	
	🗹 View	Inventory Tab		
	🗹 Perfo	rm Advanced Searc	hes	
	Save Save	Advanced Searches		

7. Click the **API Privileges** tab and select the API privileges you want to grant the user.

Create New	Account					
Account	Privileges	API Privileges	Notific	ations		
	Buildings		Read	Update	Create	Delete
	Categories			Π	√	Π
	Computer	Groups				
_	Departme	nts				

8. Click the **Notifications** tab and select the checkbox next to each event you want to user to receive a notification about.

Note: A valid email address must be entered on the Account pane for notifications to be sent.

Create New	Create New Account						
Account	Privileges	API Privileges	Notifications				
		Set All Notificatio Revoke All Notific					
			Notifications				
			Added from PreSta Autorun Error	age			

9. Click Save.

To add a user account from an LDAP server:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Accounts** link.
- 4. Click the Add Account from LDAP button.

If you don't see this button, you need to set up an LDAP server connection before completing these steps. (For more information, see the "Integrating with LDAP Servers" section.)



5. Enter the user name for the account you want to add and click **Next**.

Add User From LD	AP Server		
	Add User with username:	Bcrocker_OD	
			Cancel Next

6. When the results are returned, click the **Add** <**username**> link next to the user you want to add.



- 7. Configure accounts settings on the Privileges, API Privileges, and Notifications panes.
- 8. Click Save.

To update the Distinguished Name (DN) for an LDAP account:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Accounts** link.
- 4. Click the **Edit Account** link next to the account you want to modify.
- 5. Click the button labeled **Update DN**.

Create New	Account			
Account	Privileges	API Privileges	Notifications	
		Username:	bcrocker_OD	
			Betty Crocker bcrocker@jamfsoftware.co	
	Di	Phone: stinguished Name:	uid=bcrocker_OD,cn=user	
		(This user is fro	Update DN m an LDAP Server)	
				(Cancel) (Save)
_				

6. Specify the new Distinguished Name and click **Save**.

Create New	Account				
Account	Privileges	API Privileges	Notifications		
		New Dist	inguished Name		
	uid=bcrocker_	OD,cn=users,dc=od	dc=jamfsw,dc=corp		
				(Cancel) (S	Save)
_					

To grant access to an LDAP group:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Accounts link.

4. Click the Add Group from LDAP button in the toolbar.

If you don't see this button, you need to set up an LDAP server connection before completing these steps. (For more information, see the "Integrating with LDAP Servers" section.)



5. Enter the name of the group you want to add and click **Next**.

Add User From LDAP Server		
Lookup Group by Name: sta	íf	
	(Cancel) (Next)	

6. When the results are returned, click the **Add** <**group name**> link next to the group you want to add.

Group ID	Group Name		
20	staff	Add staff	
1025	alljamfstaff	Add alljamfstaff	
1038	financestaff	Add financestaff	
1039	culinarystaff	Add culinarystaff	

7. Set privileges for the group on the Privileges pane and click **Save**.

Adding Software Update Servers

Apple allows you to host your own software update server internally using Mac OS X Server. This reduces bandwidth by downloading the packages once per server instead of once per client and lets you approve updates before they become available.

Before using Casper Remote or a policy to run Software Update from an internally hosted software update server, you need to specify one or more servers in the JAMF Software Server (JSS).

When Casper Remote runs Software Update on remote computers, the process takes place in the background, so users don't see the process and are not prompted to authenticate. This also means the user does not need to be an administrator or even be logged in for Software Update to run on the client.

Running Software Update with Casper Remote or a policy installs all available software updates for the computer. You can control which updates are available using the Server Admin application on Mac OS X Server.

The instructions in this section explain how to add, edit, and delete a software update server.

To add a software update server:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Servers** link.
- 4. Click the **Add Server** button in the toolbar.
- 5. Select the **Software Update** option and click **Continue**.
- 6. Enter a display name for the server.
- 7. Specify the DNS name or IP address for the Mac OS X Server on which the Software Update service is running.
- 8. If you are not using port 8088, specify the port you are using in the **Port** field.
- 9. If you do not want to use this server as the default software update server for all users, deselect the **Set Server System Wide** checkbox.

10. Click the **Save** button.

Display Name	: Software Update Serve
DNS Name or IP	SoftwareUpdate.mycor
Port	8088
Set Server System Wide	: 🗹

To edit a software update server:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Servers** link.
- 4. Click the **Software Update Servers** tab.
- 5. Click the **Edit Server** link next to the server and make the necessary changes.
- 6. Click the **Save** button.

To delete a software update server:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Servers** link.
- 4. Click the **Software Update Servers** tab.
- 5. Click the **Delete Server** link next to the server.
- 6. Click the **Delete** button to confirm.

Adding NetBoot Servers

If you have one or more NetBoot servers configured in the JAMF Software Server (JSS), you can reboot clients to a NetBoot server remotely using a policy or Casper Remote.

NetBoot servers are not set up automatically. To set up a NetBoot server, you need to set up Mac OS X Server, configure the NetBoot service, and then create the NetBoot image.

There are a few different ways you can set up a NetBoot server when you add it to the JSS—each gives you a different level of control. You can set up a NetBoot server that allows you to do the following:

- Boot to a default image
- Boot to a non-default image
- Boot using manually entered information

In addition to setting up NetBoot server, this section also explains how to edit and delete them in the JSS.

To boot a NetBoot server to a default image:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Servers link.
- 4. Click the **Add Server** button in the toolbar.
- 5. Select the **NetBoot** option and click **Continue**.
- 6. Enter a display name for the server.
- 7. Specify the NetBoot server's IP address.

Display Name:	NetBoot Server
IP Address:	192,168,1,100

8. Click the **Save** button.

To boot a NetBoot server to a non-default image:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Servers link.
- 4. Click the Add Server button in the toolbar.

- 5. Select the **NetBoot** option and click **Continue**.
- 6. Enter a display name for the server.
- 7. Specify the NetBoot server's IP address.
- 8. Select the Use Specific Image option.
- 9. Use the Target Platform pop-up menu to specify the NetBoot image's processor architecture.
- 10. In the Share Point field, specify the share point for the image. This is usually something like NetBootSP0. You can locate the directory name in the folder on Mac OS X Server in the following location: /Library/NetBoot/
- 11. In the Set field, enter the set in the directory you specified in the Share Point field. This usually starts with Image_ followed by the index of the NetBoot image, and the .nbi file extension. For example, image_10012049807.nbi.
- 12. In the Image field, enter the NetBoot image in the directory you specified in the Share Point field. This is usually identified as System.dmg.
- 13. Choose NFS or HTTP from the Protocol pop-up menu.

Display Name:	NetBoot Server
IP Address:	192.168.1.100
Use Default Image:	0
Use Specific Image:	•
Target Platform:	Intel/x86 🗘
Share Point:	NetBootSP0
Set:	image_10012049801.nbi
Image:	System.dmg
Protocol:	NFS
Configure Manually:	0
boot-args:	
boot-file:	
boot-device:	enet:192.168.1.100
	Cancel) (Save)

14. Click the **Save** button.

To boot a NetBoot server using manually entered information:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Servers** link.
- 4. Click the **Add Server** button in the toolbar.

- 5. Select the **NetBoot** option and click **Continue**.
- 6. Enter a display name for the server.
- 7. Specify the NetBoot server's IP address.
- 8. Select the **Configure Manually** option.
- 9. In the fields provided, enter the boot -args, boot-file, and boot-device that should be set in Open Firmware/EFI and click the **Save** button.

Note: These items must be entered exactly. The arguments for NetBoot images used with PowerPC-based hardware should look similar to this:

Boot-args
rp=nfs:192.168.1.9:/private/tftpboot/NetBoot/NetBootSP0:Image_10012040959.
nbi/System.dmg
Boot-file
enet:192.168.1.9,NetBoot\NetBootSP0\Image_10012040959.nbi\mach.macosx
Boot-device
enet:192.168.1.9,NetBoot\NetBootSP0\Image_10012040959.nbi\booter

The arguments for NetBoot images used with Intel-based hardware should look similar to:

Boot-args
rp=nfs:192.168.1.9:/private/tftpboot/NetBoot/NetBootSP0:image_10012040959.
nbi/System.dmg
Boot-file
tftp://192.168.1.9/NetBoot/NetBootSP0/image_10012040959.nbi/i386/mach.
macosx
Boot-device
tftp://192.168.1.9/NetBoot/NetBootSP0/image_10012040959.nbi/i386/booter

Display Name:	NetBoot Server
IP Address:	192.168.1.100
Use Default Image:	0
Use Specific Image:	0
Target Platform:	PowerPC 🛟
Share Point:	
Set:	
Image:	
Protocol:	NFS 🛟
Configure Manually:	•
boot-args:	rp=nfs:192.168.1.9:/private/tftpboot/NetBoot/NetBootSP0:Image_100120409
boot-file:	enet:192.168.1.9,NetBoot\NetBootSP0\Image_10012040959.nbi\macb.macos
boot-device:	enet:192.168.1.9,NetBoot\NetBootSP0\Image_10012040959.nbi\booter

To edit a NetBoot server:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Servers** link.
- 4. Click the **NetBoot Servers** tab.
- 5. Click the **Edit Server** link next to the server and make the necessary changes.
- 6. Click the **Save** button.

To delete a NetBoot server:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Servers** link.
- 4. Click the **NetBoot Servers** tab.
- 5. Click the **Delete Server** link across from the server.
- 6. Click the **Delete** button to confirm.

Managing Buildings and Departments

Buildings and departments are organizational components that give you an easy way to perform inventory searches, assign policies to client computers, and assign Managed Preferences to client computers.

Buildings

The instructions in this section explain how to create, edit, and delete a building in the JAMF Software Server (JSS).

To create a building:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Buildings** link.
- 4. Click the **Create New Building** button.
- 5. Enter a name for the building and click the **Save** button.

Building Name: JAMF EC	3
	Cancel Save
	Building Name: JAMF EC

To edit a building:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Buildings** link.
- 4. Click the **Edit Building** link across from the building that you want to edit.
- 5. Change the name of the building.
- 6. Click Save.

To delete a building:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Buildings** link.

- 4. Click the **Delete Building** link across from the building that you want to delete.
- 5. Click **Delete** to confirm.

Departments

The instructions in this section explain how to create, edit, and delete a department in the JSS.

To create a department:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Departments** link.
- 4. Click the **Create New Department** button.
- 5. Enter a name for the department and click the **Save** button.

Edit Department	
Department Name: Development	
	Cancel Save

To edit a department:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Departments** link.
- 4. Click the Edit Department link across from the department that you want to edit.
- 5. Change the name of the department.
- 6. Click Save.

To delete a department:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Departments** link.
- 4. Click the **Delete Department** link across from the department that you want to delete.
- 5. Click **Delete** to confirm.

Managing Network Segments

A network segment is a range of IP addresses that can be used to perform the following actions:

- Assign client computers to the closest distribution point
- Update the department and/or building to which client computers belong
- Limit a policy's scope to ensure that the policy does not run when client computers are offsite
- Limit a PreStage's scope to image only client computers within the specified IP range

Network segments can be class B or class C subnets, or any IP range therein.

The instructions in the section explain how to create, edit, and delete a network segment in the JAMF Software Server (JSS).

To create a network segment:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Network Segments** link.
- 4. Click the **Create New Network Segment** button in the toolbar.
- 5. Enter a display name for the network segment.
- 6. Specify an IP range for the network segment by entering starting and ending IP addresses.
- 7. If you want to assign a distribution point, NetBoot server, or Software Update server to the network segment, make your selections from the corresponding pop-up menus.

Display Name: Network Segment	
Starting IP Address: 10.10.12.1	
Ending IP Address: 10.10.14.255	
Default Distribution Point: No Distribution Point	\$
Default NetBoot Server: No NetBoot Server	
Default Software Update Server: No Software Update Server	
Default Department: No Department 文	
0 📃 Override Departments in Inventory	
Default Building: No Building 🗘	
💿 📄 Override Buildings in Inventory	
	(Cancel) (Save)

- 8. If the IP range falls within a specific department and/or building, use the **Default Department** and **Building** pop-up menus to specify which one(s) it belongs to.
- If you want clients within the network segment to reflect this department and/or building in their inventory record when they enter the segment, select the Override Departments/Buildings in Inventory option(s).

10. Click the **Save** button.

To edit a network segment:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Network Segments link.
- 4. Click the **Edit Network Segment** link across from the network segment that you want to edit and make the necessary changes.
- 5. Click Save.

To delete a network segment:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Network Segments** link.
- 4. Click the **Delete Network Segment** link across from the network setting you want to delete.
- 5. Click **Delete** to confirm.

Managing Packages

This section explains how to do the following:

- Add a new package
- Change package attributes
- Add a disk image of an Adobe Installer DVD
- Add a disk image of an Adobe Updater
- Add a disk image of Mac OS X Installer DVD
- Index packages
- Delete packages

Adding a New Package

Before you deploy a package, you must add it to the JAMF Software Server (JSS) using Casper Admin and assign it to one or more distribution points.

There are two ways to add a new package to Casper Admin:

- Drag a package into Casper Admin
- Copy the package directly to a distribution point

Dragging a Package into Casper Admin

When you drag a package into Casper Admin, it is copied to the master distribution point and displayed in blue text in the **Unknown** category until you assign it to a software category.

To add a package to Casper Admin:

- 1. Open Casper Admin and authenticate to the JSS.
- 2. Drag the package from the Finder to the Package pane in Casper Admin.

Copying the Package Directly to the Distribution Point

This method copies the package to the Packages folder at the root of the file share. You can enter information about the package into the JSS manually.

If you open Casper Admin after adding the package, the name of the package is displayed in blue text in the **Unknown** category in the sidebar.

To add a package manually:

- 1. Copy the package to the Packages folder on your distribution point.
- 2. Log in to the JSS with a web browser.

- 3. Click the **Settings** tab.
- 4. Click the Casper Admin link.
- 5. Click the **New Package** button and enter information about the package on the Info pane.

Note: The information entered in File Name field must match the name of the file exactly.

6. Click Save.

Edit	Package:		
1			
Info	o Options	Self Healing	
	Package Info		
	Display Name:	Firefox.dmg Category: Unknown	
	File Name:	Firefox.dmg	
		Note: If you change the file name here, you will need to do so manually on your Distribution Point(s)	
	Info:		
	Notes:		
		Cancel) (Save)

Changing Package Attributes

You can change the attributes that determine how a package is installed.

This section explains the following:

- how to modify package attributes using Casper Admin or the JSS
- the attributes listed on the Summary, Info, and Options panes

To change package attributes using Casper Admin:

- 1. Open Casper Admin.
- 2. Select the package that you want to change.
- 3. Click the **Info** button in the toolbar.
- 4. Make changes to the information on the Info and Options panes, and then click OK.

To change package attributes using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Casper Admin** link and click the package name.
- 4. Make changes on the Info and Options panes, and then click **Save**.

Summary Pane

This pane displays an overview of the package. The button labeled **Reveal in Finder** displays the package in a Finder window.

Note: The Summary pane exists in the Casper Admin application only. It is not included in the web version of Casper Admin.

Display Name: Firefox 3.6.dmg File Name: Firefox 3.6.dmg Category: Software		Reveal in Finder
Kind: JAMF Package	Format:	DMG Package
Size: n/a	Priority:	10
Date Created: 2/18/11 at 3:28 PM	User Templates:	No
Date Modified: 2/18/11 at 3:28 PM	Existing Users:	No
JSS ID: 106	Reboot Required:	n/a
Executable: n/a	Stage:	Deployable
Computers that have a package re		
Configurations that this is Computers that use this for		

Info Pane

This pane lets you modify basic information about a package.

	Summary	Info Options	
Display Name		Category	
Firefox 3.6.dmg		Software	•
ile Name			
Firefox 3.6.dmg			
Notes			
lotes			

The following attributes are displayed on this pane:

Display Name

This is the customizable name that identifies a package when it is displayed in a list of packages or policies. The display name does not have to match the name of the package file.

File Name

This is the name of the package file.

If you change a file name using the web version of Casper Admin, you must manually update the file name on each distribution point. If you change a file name using the Casper Admin application, this information is automatically updated for you.

Category

This identifies the organizational category to which a package belongs.

Info

The information displayed to the administrator when a package is being deployed.

Notes

Notes are only displayed in Casper Admin. They are helpful when tracking information about a package, such as who created it and when it was built.

Options Pane

This pane lets you specify deployment information and set criteria that limits whether a client computer can install or uninstall a package.

Setting these limitations prevents packages from being deployed to client computers that should not receive them.

Package O	ntions
Priority:	10 Fill User Templates
Requ	ires Reboot Fill Existing User Home Directories
This	package must be installed to the boot volume at imaging time
Package Li	mitations
Stage:	Depioyable
Allow	w this package to be uninstalled by Casper or a Policy
OS Requ	lirements:
	nter possible matches (such as 10.4 or 10.4.1) separated by commas. If you ould like to include all versions of 10.4, enter "10.4.x".
🗌 Insta	all Only if Processor is: PowerPC \$
If t	he target computer is not PowerPC Do not install
🗌 Insta	Il only if SWU reports the package as available

The following attributes are displayed on this pane:

Priority

This determines the order in which packages are installed. For example, an OS package should have a priority of 1 to ensure that it is installed first. An updater or a package that needs to overwrite files that may exist in another package should have a priority of 20.

Fill User Templates

The default settings for a new user's home directory are located in the User Template folder. When you select this option, the files and folders in the first home directory located in /Users/ are copied to the User Template directories at:

```
/System/Library/User Template/
```

Selecting this option allows you to distribute preferences or documents and provide a default work environment to any new user on a client computer.

Note: This option is only available for DMG-style packages.

Fill Existing User Home Directories

Selecting this option copies the files and folders in the first home directory located in /Users/ to every existing home directory on the client computer.

Note: This option is only available for DMG-style packages.

This package must be installed to the boot volume at imaging time

If this option is selected, Casper Imaging installs the package with the first run script.

Stage

You can limit how a package is used and deployed by choosing one of the following options from the Stage pop-up menu:

- Testing—The package can only be deployed using Casper Remote (not a policy), and can only be pushed to five computers at a time.
- Non-Deployable—The package cannot be deployed. This setting is useful if the package needs to be taken out of production temporarily for licensing or other reasons.
- **Deleted**—The package has been deleted from Casper Admin.

Allow Uninstall

Selecting this option allows administrators to uninstall a package using a policy or Casper Remote. Administrators will not be able to uninstall a package using a policy or Casper Remote unless this option is selected.

Some packages—for example, operating system updates and security updates—should not be uninstalled, since they contain files required to boot the client computer.

Note: A package must be indexed before this option can be selected. (For more information on indexing packages, see the "Indexing Packages" section.)

OS Requirements

If certain operating system requirements are needed to install a package, specify the requirements in this field using the following guidelines:

- If a package can be installed on any version of Mac OS X 10.6 (but not 10.5), enter "10.6.x".
- If a package can only be installed on Mac OS X 10.5.6, enter "10.5.6".
- If the entry has more than one requirement, separate each requirement with a comma.
- If a package does not have any operating system requirements, leave this field blank.

Install Only if Processor Is [PowerPC/x86]

Some packages are built only for a single architecture. You can specify this information by selecting this option and choosing **PowerPC or X86** from the pop-up menu.

To install an alternate package if a non-compliant architecture is encountered, choose an alternate package from the **If the target computer's processor is not there** pop-up menu.

Install Only if SWU Reports are Available

Selecting this option prompts Casper Remote or a policy to run Software Update for packages that may be available as updates.

For this feature to work properly, you must remove the .pkg or .mpkg file extension from the package's display name. If this still does not work, run the following command in a Terminal window:

```
softwareupdate -l
```

It is important to ensure the information provided in the **Display Name** field matches the name of the package that is displayed in Software Update's command-line version.

Note: This option is only available for PKG-style packages.

Adding a Disk Image of an Adobe Installer DVD

Adobe CS3 and CS4 products can be deployed without repackaging by adding a disk image of the Adobe Installer DVD to Casper Admin and identifying it as an Adobe Installer Image.

If you download installer media directly from Adobe, it is already in disk image format. If you have installer media on DVD, you must first create the disk image using Disk Utility. Since the Adobe Installer Image, itself, is not a deployable object, you must use Casper Admin or the JSS to create the Adobe installations that install and configure Adobe products.

Creating an Adobe installation involves the following steps:

- Creating the disk image
- Adding the Adobe Installer disk image
- Creating a new Adobe installation using Casper Admin or the JSS

Step 1: Creating the Disk Image

- 1. Insert the installer DVD into a computer running Mac OS X.
- 2. Open **Disk Utility** from the **Utilities** folder.
- 3. Click the **DVD** button in the sidebar.
- 4. Navigate to **File** > **New** > **New Image From** <**name of the DVD**>.
- 5. Save as a compressed disk image.

Step 2: Adding the Adobe Installer Disk Image

- 1. Open Casper Admin.
- Drag the disk image of the Adobe Installer DVD into Casper Admin.
 This copies the disk image directly to the master distribution point.
 After Casper Admin copies the disk image, the Info pane is displayed. If it does not appear, click the Info button in the toolbar.

3. Click the Info tab and select the This file is a disk image containing an installer (Mac OS X or an Adobe Installer/Updater) option.

It can take Casper Admin up to 30 seconds to analyze the contents of the disk image. When this process is complete, the Options pane appears and a list of payloads available with the installer is displayed.

	Summary Info	o Options	
	Summary	options	
Display Name		Category	
CS4 Web Standard.dmg		Adobe Installers	\$
ile Name			
CS4 Web Standard.dmg			
nfo			_
			- 11
Notes			
iotes			
Notes			
lotes			

4. Click **OK** and select **Adobe Installer Images** in the **View Type** list to see the listing for the disk image.

Step 3: Creating a New Adobe Install Using Casper Admin

- 1. Open Casper Admin.
- 2. Click the **New Adobe Install** button in the toolbar.
- 3. If you have multiple Adobe Installer Images, choose the one on which you want to base your installation from the **Installer Image** pop-up menu.

Please choose the the installation fro	Adobe Installer Image that you wish to create m.
Installer Image:	CS4 Web Standard.dmg
	Cancel OK

4. Enter a display name for the installation.

	Summary Info	Options	
Display Name		Category	-
CS4 Web Standard Insta	11	Adobe Installers	•
File Name			
CS4 Web Standard.dmg			
This file is a disk image	containing an installer	(Mac OS X or an Adobe Installer/Updater))
Info			
110		1	
Notes			

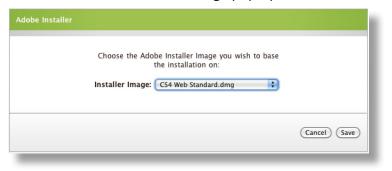
5. Click the **Options** tab and set the installation options.

nstallation Options			
	•		
Priority: 10	🗘 Install	ation Language:	en_US
Serial Number:	AAAAA-BBBBBB-	CCCCCC-DDDD	DD-EEEEEE
Suppress Insta	ller Dock Icon	Ignore C	onflicting Processes
Product Name			Version
Adobe Contribu	te CS4		5.0
Adobe Dreamwe			10.0
Adobe Firework			10.0
Adobe Flash CS			10.0
Adobe Version (4.0
Adobe Creative	Suite 4 Web Standar	d	4.0
Select All	Select None		
Default User Settings			
Suppress EULA	Suppress F	Registration	Suppress Updates
nstallation Limitations			
Stage: Deployabl	e 🔹	Allow this pack	age to be uninstalled

6. Click OK.

Step 3: Creating a New Adobe Install Using the JSS

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Casper Admin link.
- 4. Click the New Adobe Install button in the toolbar.
- 5. If you have more than one Adobe Installer Image, choose the image on which you want to base your installation from the **Installer Image** pop-up menu.



- 6. Click Save.
- 7. Enter a display name for the installation on the Info pane.

Edit Pao	ckage: Untitled	Adobe Installation
0		*
Info	Options	Self Healing
Pa	ackage Info	
	Display Name:	CS4 Web Standard Install Category: Adobe Installers
	File Name:	CS4 Web Standard.dmg
		Note: If you change the file name here, you will need to do so manually on your Distribution Point(s)
	Info:	
	Notes:	
	Notes:	
		(Cancel) (Save

8. Click the **Options** tab and set the installation options. For more information about these options, see the "Options for an Adobe Install" section.

	1	W	
	Options	Self Healing	
Insta	llation On	lana	
Insta	llation Op	tions	
Prior	ity: 10	Installation Language: en_US	
Seria	l Number:	AAAAAA-BBBBBB-CCCCCC-DDDDDD-EEE	EEE
🗹 s	uppress li	staller Dock Icon 🗹 Ignore	Conflicting Processes
0 -			
		Payload	Version
		ontribute CS4	5.0
		reamweaver CS4	10.0
	Adobe Fi	reworks CS4	10.0
	Adobe Fl	ash CS4	10.0
-	Adobe V	ersion Cue CS4 Server	4.0
	Adobe C	eative Suite 4 Web Standard	4.0
0	100000		
0	, laose el		

9. Click Save.

Options for an Adobe Installation

The Options pane lets you specify the following information for an Adobe installation:

Priority

Setting the priority determines the order in which packages are installed.

Serial Number

Providing this information identifies the serial number of products you are installing.

Suppress Installer Dock Button

An Adobe Installer icon will appear in the Dock of any logged-in user even if the installer is deployed in "silent" mode. Selecting this option ensures that the icon does not appear in the Dock.

Ignore Conflicting Processes

An Adobe Installer will fail if conflicting processes are found. Common conflicts include Safari, Firefox, and Microsoft Office applications. Selecting this option prompts the installer to ignore these conflicts.

As a result, any plug-ins installed for applications that are running during the installation will not be available until the applications are re-opened.

List of Available Payloads

This provides a list of payloads available in the Adobe Installer Image.

You can use a single Adobe Installer Image to create multiple distributions of Adobe products that may contain different sets of the payloads.

Suppress EULA

Ensures that users are not prompted with an End User License Agreement (EULA) when opening Adobe products.

Suppress Registration

Ensures that users are not prompted to register Adobe products.

Suppress Updates

Ensures that users are not prompted with available Adobe updates when using Adobe applications.

Stage

You can set limitations on the use or deployment of a package by choosing one of the following options from the Stage pop-up menu:

- Testing—The package can only be deployed using Casper Remote (not a policy) and can only be pushed to five computers at a time.
- Non-Deployable—The package cannot be deployed. This setting is useful if the package needs to be taken out of production temporarily for licensing or other reasons.
- **Deleted**—This setting indicated that the package has been deleted in Casper Admin.

Allow Uninstall

If you want the ability to uninstall the contents of your Adobe Install, select this option to make the Uninstall feature available when using Casper Remote or a policy.

The Adobe Silent Installer is used to uninstall software. Uninstalling software with this program generally takes more time than uninstalling normal PKG or DMG-style packages.

Adding a Disk Image of an Adobe Updater

Most Adobe updates available for download on the Adobe support website are already in disk image format.

Updaters that support silent installation can be installed without repackaging. If you add the disk image to Casper Admin and it is not recognized as an Adobe Updater, it is possible that the updater does not support silent installation.

To add an Adobe Updater disk image:

- 1. Open Casper Admin.
- 2. Drag the disk image of the Adobe Updater into Casper Admin.
- 3. This copies the disk image directly to the master distribution point.
- 4. After Casper Admin copies the disk image, the Info pane is displayed. If it does not appear, click the **Info** button in the toolbar.
- 5. Click the Info tab, and select the This file is a disk image containing an installer (Mac OS X or an Adobe Installer/Updater) option.

It can take Casper Admin up to 30 seconds to analyze the contents of the disk image. When this process is complete, the Options pane appears and a list of payloads available with the updater is displayed.

Adding a Disk Image of a Mac OS X Installer DVD

Installing your operating system using a disk image of the Mac OS X Installer DVD ensures that client computers receive a clean operating system without requiring you to build a separate OS package.

You create a Mac OS X Install by adding a disk image of the Mac OS X Installer DVD to Casper Admin and identifying it as a Mac OS X Installer Image.

If you download installer media directly from Apple, it is already in disk image format. If you have installer media on DVD, you must first create the disk image using Disk Utility.

You can use a single image to create multiple installations, each with custom software and language settings.

Creating a Mac OS X Install involves the following steps:

- Creating the disk image
- Adding the Mac OS X Installer DVD
- Customizing a Mac OS X Install using Casper Admin or the JSS

Step 1: Creating the Disk Image

- 1. Insert the installer DVD into a computer running Mac OS X.
- 2. Open **Disk Utility** from your **Utilities** folder.
- 3. Click the **DVD** button in the sidebar.
- 4. Navigate to **File** > **New** > **New Image From** <**name of the DVD**>.
- 5. Save as a compressed disk image.

Step 2: Adding the Mac OS X Installer Disk Image

- 1. Open Casper Admin.
- 2. Drag the disk image of the Mac OS X Installer into Casper Admin.

This copies the disk image directly to the master distribution point.

After Casper Admin copies the disk image, the Info pane is displayed. If it does not appear, click the **Info** button in the toolbar.

3. Click the Info tab and select the This file is a disk image containing an installer (Mac OS X or an Adobe Installer/Updater) option.

It can take Casper Admin up to 30 seconds to analyze the contents of the disk image.

When this process is complete, specify a default language for the installation from the Language pop-up menu.

Note: The initial Mac OS X Installer image cannot be customized beyond the language. For more information on customizing the installation, see the step entitled "Customizing the Mac OS X Install Using Casper Admin/JSS."

	fo Options
nstallation Options	
Mac OS X I	nstallation Disk
This disk image has been identified The Casper Suite can utilize this disl of Mac OS X. Installing this package will install Ma To create a customized installation, button.	k image to perform a clean install ac OS X with the default options.
Language: English	Create Custom OS Install
nstallation Limitations	
nstallation Limitations Stage: Deployable	

4. Click OK.

Step 3: Customizing a Mac OS X Install Using Casper Admin

- 1. Open Casper Admin.
- 2. Select the Mac OS X Install on which you want to base your new installation.
- 3. Click the **Info** button in the toolbar.
- 4. Click the **Options** tab and click the **Create Custom OS Install** button.

5. Enter a display name for the installation on the Info pane.

Display Name		Category	
Custom Mac OS X Sr	ow Leopard Install	Operating Systems	\$
File Name			
snowleopard_10a43	2userdvd.dmg		
✓ This file is a disk ir	nage containing an installer (Mac OS X or an Adobe Installer/U	Ipdater)
nfo			
			- 11
Notes			
Votes			
Notes			

6. Click the **Options** tab again and select the checkbox next to each package you want to install.

nstallation Options	Summary Info Options
AdditionalFo	nts
▶ LanguageTransl	ations
▶ PrinterDriversGr	
QuickTimePla	ayer7
🗌 Rosetta	
🗆 X11	
Language: Englis	sh Create Custom OS Install
Language: Englis	sh Create Custom OS Install
	sh Create Custom OS Install
nstallation Limitations	
	sh Create Custom OS Install

7. Click OK.

Step 3: Customizing a Mac OS X Install Using the JSS

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.

- 3. Click the Casper Admin link.
- 4. Click the link for the Mac OS X installation on which you want to base the new installation.
- 5. Click the **Options** tab and click the **Create Custom OS Install** button.

Edit Pa	ckage: snowle	eopard_10a432userdvd.dmg	
() Info	🥪 Options	Self Healing	
Pa	ackage Optio	ns	
	.4	Mac OS X Installation Disk	
		mage has been identified as a Mac OS X Installation Disk. r Suite can utilize this disk image to perform a clean install X.	
		his package will install Mac OS X with the default options. a cusomized install, click the Create Custom OS Install	
	Language:	English Create Custom OS Install	
In	stallation Lin	nitations	
	St	age: Deployable	
		(Cancel) (Sa	ve

6. Enter a display name for the installation on the Info pane.

dit Pa	ckage: snowleo	pard_10a432userdvd.dmg
0		*
Info	Options	Self Healing
Pa	ackage Info	
	Display Name:	Clean OS X Install Category: Operating Systems 🛟
	File Name:	snowleopard_10a432userdvd.dmg
		Note: If you change the file name here, you will need to do so manually on your Distribution Point(s)
	Info:	
	Notes:	
		(Cancel) (Save)
-	_	

7. Click the **Options** tab and select the checkbox next to each package you want to install.

dit Pac	kage: Clean	OS X Install
0		
Info	Options	Self Healing
	skans Ontis	
Pa	ckage Optio	ns
		AdditionalFonts
		EssentialSystemSoftware
		LanguageTranslations
		PrinterDriversGroup
		QuickTimePlayer7 Rosetta
		X11
	Language:	
In	stallation Lir	nitations
	St	age: Deployable
		(Cancel) (Save)

8. Click Save.

Indexing Packages

Indexing creates a log of the individual files contained within a package.

Packages must be indexed before you can perform the following tasks:

- Uninstall the package using a policy or Casper Remote
- Use the Self Healing feature
- Search the contents of the package using the JSS
- Create Application Difference reports

To index a package:

- 1. Open Casper Admin.
- 2. If prompted, authenticate to the JSS.
- 3. Select the package that you want to index in the Package pane, and then click the **Index** button at the bottom of the pane.
- 4. The user name for an account on the client computer is displayed by default. Specify the corresponding password, and then click **OK**.
- 5. When the indexing process is complete, Casper Admin defaults back to the main window.
- 6. From the File menu, click Save.

Enabling the Self Healing Feature

Self Healing is a maintenance feature used to ensure that the files from a package remain in their originally configured state on the client computer. For instance, if the permissions for an application installed on a client computer are changed due to an overwrite, Self Healing will detect the change and reinstall the application as originally configured.

Self Healing determines whether a maintenance action is needed by comparing the files in a package to those on the client computer. If the files on the client computer do not match those in the package, a Self Healing action is triggered.

There are two components that make up the Self Healing process:

- Triggering files—These are the files that you want to monitor for changes. If, at any time, the client computer does not contain matching triggering files, Self Healing will perform the specified maintenance action.
- Self Healing actions—There are three maintenance actions that Self Healing can perform in the event that the triggering files on the client computer do not match those in the package:
 - Reinstall the Entire Package
 - Reinstall the Triggering File
 - Send an Email Notification

The instructions in this section explain how to specify these components of the Self Healing process.

Note: Before you enable Self Healing on a package, the package must be indexed. See the "Indexing Packages" section for details.

To enable Self Healing:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Casper Admin** link.
- 4. In the list of packages, click the link for the package on which you want to enable Self Healing.
- 5. Click the **Self Healing** tab and select a reinstallation option:
 - If you do not want the package to be reinstalled, select the **Do Not ReInstall** option.
 - If you want to reinstall the entire package, select the **Do ReInstall Entire Package** option.
 - If you want to reinstall the triggering files only, select the **Do ReInstall Triggering Files** option.
- 6. If you want an email notification to be sent each time a Self Healing event takes place, select the **Send Email Notification** option.

Note: Emails are sent to users of the JSS that have Self Healing notification enabled on their account.

7. Use the Choose Files, Add All Apps, Add All Fonts, and Add All Plug-ins buttons in the Triggering Files for Self Healing group box to specify the files on which you want to monitor changes.

- 8. Use the **Compare** pop-up menu to specify the type of change that you want to monitor for each triggering file. For instance, if you select "File Exists" from the pop-up menu, Self Healing will be triggered if the triggering file does not exist on the client computer. If you select "Permissions" from the pop-up menu, Self Healing will be triggered if the permissions for the file on the client computer do not match those in the package.
- 9. Click Save.

Deleting Packages

If you no longer need a package, you can delete it using Casper Admin or the JSS.

When you delete a package, the package file is moved from the Packages folder to the Deleted Packages folder that is located in the Casper Data folder. To permanently delete the package, empty the trash after the package has been deleted.

After a package is deleted, change the stage to "Deleted" so it cannot be used.

The instructions in this section explain how to do the following:

- delete a package using Casper Admin or the JSS
- empty the trash using Casper Admin or the JSS

To delete a package using Casper Admin:

- 1. Open Casper Admin, and make sure the **Repository** list is highlighted in the sidebar.
- 2. Select the packages that you want to delete.
- 3. Click the **Delete** button in the toolbar.
- 4. Click **OK** to confirm the deletion.

To delete a package using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click Casper Admin link.
- 4. In the list of packages, click the link for package that you want to delete.
- 5. Click the **Options** tab and choose **Deleted** from the **Stage** pop-up menu.
- 6. Click Save.

To empty the trash using Casper Admin:

- 1. Open Casper Admin.
- 2. Click the **Empty Trash** button in the toolbar.

3. Click **OK** to confirm the deletion.

To empty the trash using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Casper Admin link.
- 4. Click the **Deleted Items** button in the toolbar and click **Empty Trash**.

Managing Scripts

This section explains how to do the following:

- Add new scripts
- Change script attributes
- Delete scripts

Adding a New Script

Before you deploy a script, you must add it to the JAMF Software Server (JSS) using Casper Admin and assign it to one or more distribution points.

There are two ways to add a new script to Casper Admin:

- Drag the script into Casper Admin
- Copy the script directly to a distribution point

Dragging a Script into Casper Admin

When you drag a script into Casper Admin, it is copied to the master distribution point and displayed in blue text in the **Unknown** category until you assign it to a software category.

To add a script using Casper Admin:

- 1. Open Casper Admin and authenticate to the JSS.
- 2. Drag the script from the Finder into the Package pane in Casper Admin.

Copying the Script Directly to the Distribution Point

This method copies the script to the Scripts folder at the root of the file share. You can enter information about the script into the JSS manually.

If you open Casper Admin after adding the script, the name of the script is displayed in blue text in the **Unknown** category in the sidebar.

To add a script manually:

- 1. Add the script to the Scripts folder on your distribution point.
- 2. Log in to the JSS with a web browser.
- 3. Click the **Settings** tab.
- 4. Click the Casper Admin link.

5. Click the **New Script** button and enter information about the script on the Info pane.

Note: The information entered in the File Name field must match the name of the file exactly.

6. Click Save.

Changing Script Attributes

You can change the attributes that determine how a script is executed.

This section explains how to do the following:

- How to change script attributes using either Casper Admin or the JSS
- The attributes listed on the Summary, Info, and Options panes

To change script attributes using Casper Admin:

- 1. Open Casper Admin.
- 2. Select the script that you want to change.
- 3. Click the **Info** button in the toolbar.
- 4. Make changes to the information on the Info and Options panes, and then click **OK**.

To change script attributes using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Casper Admin link and click the name of the script.
- 4. Make changes on the Info and Options panes, and then click Save.

Summary Pane

This pane displays an overview of the script. The button labeled **Reveal in Finder** displays the script in a Finder window.

Note: The Summary pane exists in the Casper Admin application only. It is not included in the web version of Casper Admin.

Display Name: turnOffAirport.sh File Name: turnOffAirport.sh	Info Options	
Category: Airport Management		Reveal in Finder
Kind: Script	Format:	Shell Script
Size: n/a	Priority:	After
Date Created: 4/21/10 at 9:22 AM	User Templates:	n/a
Date Modified: 4/21/10 at 9:22 AM	Existing Users:	n/a
JSS ID: 15	Reboot Required:	n/a
Executable: No	Stage:	Deployable
Computers that have a package re	ceipt for this: n/a	
Configurations that this is	a member of: 0	
Computers that use this for	autorunning: n/a	

Info Pane

This pane lets you modify basic information about a script.

	Summary Info	Options	
Display Name		Category	
turnOffAirport.sh		Airport Management	\$
File Name			
turnOffAirport.sh			
This file is a disk im	age containing an installe	r (Mac OS X or an Adobe Installer/Update	er)
	age containing an instance	in (mac 03 X or all Adobe installer/opdate	cij
nfo			_
			Ш
Notes			
Votes			
Notes			

The following attributes are displayed on this pane:

Display Name

This is the customizable name that identifies a script when it is displayed in a list of scripts or policies. The display name does not have to match the name of the script file.

File Name

This is the name of the script file. If you change a file name using the web version of Casper Admin, you must manually update the file name on each distribution point. If you change a file name using the Casper Admin application, this information is automatically updated for you.

Category

This identifies the organizational category to which a script belongs.

Info

The information displayed to the administrator when a script is being deployed.

Notes

Notes are only displayed in Casper Admin. They are helpful when tracking information about a script, such as who created it and when it was created.

Options Pane

This pane lets you specify deployment information and limit the operating systems on which a script can be run.

Script Options	
Priority: After	
The first 3 parameters are predefine	d in every script as mount point, computer name and username
Parameter 4 Label:	Parameter 8 Label:
Parameter 5 Label:	Parameter 9 Label:
Parameter 6 Label:	Parameter 10 Label:
Parameter 7 Label:	Parameter 11 Label:
Script Limitations	
Stage: Deployable	
OS Requirements:	
Enter possible n you would like t	natches (such as 10.4 or 10.4.1) separated by commas. If to include all versions of 10.4, enter "10.4.x".

The following attributes are displayed on this pane:

Priority

This determines the order in which scripts will run. For example, you can specify whether a script should run before the imaging process, after the imaging process, or the first time the computer boots after imaging.

Parameter Labels

Three parameters are predefined for every script by default, but you can assign up to eight additional parameters.

You can specify names for these additional parameters in the Parameter Labels fields. If you do not specify a name, the script will be displayed as "Parameter x" in deployment interfaces.

Stage

You can limit how a script is used and deployed by choosing one of the following options from the **Stage** pop-up menu:

- Testing—The script can only be deployed using Casper Remote (not a policy), and can only be pushed to five client computers at a time.
- Non-Deployable—The script cannot be deployed. This setting is useful if the script needs to be taken out of production temporarily.
- Deleted—The script has been deleted from Casper Admin.

OS Requirements

If certain operating system requirements are needed to run a script, specify the requirements in this field using the same guidelines that you would use for a package (see the "Managing Packages" section).

Deleting Scripts

If you no longer need a script, you can delete it using Casper Admin or the JSS.

When you delete a script, the script file is moved from the Scripts folder to the Deleted Scripts folder that is located in the Casper Data folder. To permanently delete a script, empty the trash after the script has been deleted.

After a script is deleted, change the stage to "Deleted" so it can't be used.

The instructions in this section explain how to do the following:

- Delete a script using Casper Admin or the JSS
- Empty the trash using Casper Admin or the JSS

To delete a script using Casper Admin:

- 1. Open Casper Admin, and make sure the **Repository** list is highlighted in the sidebar.
- 2. Select the scripts that you want to delete.
- 3. Click the **Delete** button in the toolbar.
- 4. Click **OK** to confirm the deletion.

To delete a script using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click Casper Admin link.
- 4. In the list of scripts, click the link for the script that you want to delete.
- 5. Click the **Options** tab and choose **Deleted** from the **Stage** pop-up menu.
- 6. Click Save.

To empty the trash using Casper Admin:

- 1. Open Casper Admin.
- 2. Click the Empty Trash button in the toolbar.
- 3. Click **OK** to confirm the deletion.

To empty the trash using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Casper Admin link.
- 4. Click the **Deleted Items** button in the toolbar and click **Empty Trash**.

Managing Printers

This section explains how to do the following:

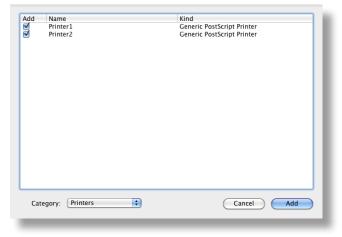
- Add a new printer
- Change printer attributes
- Delete printers

Adding a New Printer

Before you deploy a printer, you must add it to the JAMF Software Server (JSS) using Casper Admin as a deployable object.

To add a printer using Casper Admin:

- 1. Open Casper Admin and authenticate to the JSS.
- 2. Click the Add Printers button in the toolbar.
- 3. Authenticate locally if prompted.
- 4. Select the checkbox next to each printer you want to add.
- 5. Using the **Category** pop-up menu, choose the category to which the printers should be added, and then click the **Add** button.



Changing Printer Attributes

Printers, like packages and scripts, have attributes that determine how they are organized and deployed.

This section explains the following:

- How to change printer attributes using Casper Admin or the JSS
- The attributes listed on the Summary, Info, and Options panes

To change printer attributes using Casper Admin:

- 1. Open Casper Admin.
- 2. Select the printer.
- 3. Click the **Info** button in the toolbar.
- 4. Make changes to the information on the Info and Options panes, and then click **OK**.

To change printer attributes using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Casper Admin** link and click the printer name.
- 4. Make changes on the Info and Options panes, and then click **Save**.

Summary Pane

This pane displays an overview of the printer.

Note: The Summary pane exists in the Casper Admin application only. It is not included in the web version of Casper Admin.

000	Information for Printer1	
	Summary Info Options)
Display Name: Printer1		
File Name: _10_10_1		
Category: Developm	nent Printers	(Reveal in Finder
Kind: Printer	Format:	n/a
Size: n/a	Priority:	Normal
Date Created: n/a	User Templates:	n/a
Date Modified: n/a	Existing Users:	n/a
JSS ID: 1	Reboot Required:	n/a
Executable: n/a	Stage:	Deployable
Configurations	a package receipt for this: n/a : that this is a member of: 0 use this for autorunning: n/a	
(Previous) Next	_	Cancel OK

Info Pane

This pane lets you modify basic information about a printer.

2 😏	Information for Printer1
	Summary Info Options
Display Name	Category
Printer1	Development Printers
PPD	
_10_10_10_10.ppd	
This file is a disk im	nage containing an installer (Mac OS X or an Adobe Installer/Updater)
Info	
into	
Notes	
	Cancel

The following attributes are displayed on this pane:

Display Name

This is the customizable name that identifies a printer when it is displayed in Casper Imaging, Casper Remote, or policies.

This name can differ from the PPD (Postscript Printer Description) file name.

File Name

This is the name of the PPD (Postscript Printer Description) file.

Category

This identifies the organizational category to which a printer belongs.

Info

The information displayed to the administrator when a printer is being deployed.

Notes

Notes are only displayed in Casper Admin. They are helpful when tracking information about a printer or package, such as who created it and when it was built.

Options Pane

This pane lets you specify deployment information and limit the operating systems to which a printer can be mapped.

0 0 🔿	Information for Printer1
Printer Options	Summary Info Options
☐ Make Default w	ien imaging
Printer Limitations Stage: Deployable OS Requirements: Ent If v	e ter possible matches (such as 10.4 or 10.4.1) separated by commas. ou would like to include all versions of 10.4, enter "10.4.x".
Previous Next	Cancel OK

The following attributes are displayed on this pane:

Stage

You can limit how a printer is used and deployed by choosing one of the following options from the Stage pop-up menu:

- **Non-Deployable**—The printer cannot be deployed. This setting is useful if the package needs to be taken out of production temporarily for licensing or other reasons.
- Deleted—The printer has been deleted from Casper Admin.

Deleting Printers

If you no longer need a printer, you can delete it using Casper Admin.

After a printer is deleted, change the stage to "Deleted" so it cannot be used.

The instructions in this section explain how to do the following:

- Delete a printer using Casper Admin or the JSS
- Empty the trash using Casper Admin or the JSS

To delete a printer using Casper Admin:

1. Open Casper Admin and make sure the **Repository** list is highlighted in the sidebar.

- 2. Select the printers that you want to delete.
- 3. Click the **Delete** button in the toolbar.
- 4. Click **OK** to confirm the deletion.

To delete a printer using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Casper Admin link.
- 4. In the list of printers, click the link for printer that you want to delete.
- 5. Click the **Options** tab and choose **Deleted** from the **Stage** pop-up menu.
- 6. Click **Save**.

To empty the trash using Casper Admin:

- 1. Open Casper Admin.
- 2. Click the **Empty Trash** button in the toolbar.
- 3. Click **OK** to confirm the deletion.

To empty the trash using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Casper Admin link.
- 4. Click the **Deleted Items** button in the toolbar and click **Empty Trash**.

Managing Dock Items

Adding Dock Items

Before you deploy a Dock item, you must add it to the JAMF Software Server (JSS) using Casper Admin as a deployable object.

To add a Dock item:

- 1. Open Casper Admin.
- 2. Click the Add Dock Items button in the toolbar.
- 3. Select the checkbox next to each item you want to add, and then click the Add button.

dd	Type	Name	Path to item
	App	App Store	file://localhost/Applications/App%20Store.app/
	App	Stickies	file://localhost/Applications/Stickies.app/
	App	Quicken Essentials	file://localhost/Applications/Quicken%20Essentials.app/
	App	Evernote	file://localhost/Applications/Evernote.app/
	App	Microsoft Word	file://localhost/Applications/Microsoft%20Office%202011/
	App	iTunes	file://localhost/Applications/iTunes.app/
	App	Adobe Acrobat Pro	file://localhost/Applications/Adobe%20Acrobat%20X%20Pr
	App	Adobe InDesign CS5.5	file://localhost/Applications/Adobe%20InDesign%20CS5.5
	App	Adobe Photoshop CS5.1	file://localhost/Applications/Adobe%20Photoshop%20CS5
	App	OmniOutliner Professional	file://localhost/Applications/OmniOutliner%20Professional
	App	Adium	file://localhost/Applications/Adium.app
	File	Documents	file://localhost/Users/Erin/Documents/
with sper	a Policy.	Dock items can be deployed wi They cannot be deployed durin and therefore cannot be assign	ig imaging with

Deleting Dock Items

If you are no longer using a Dock item, you can delete it using Casper Admin.

To delete a Dock item:

- 1. Open Casper Admin, and make sure the **Repository** list is highlighted in the sidebar.
- 2. Select the items you want to delete.
- 3. Click the **Delete** button in the toolbar.
- 4. Click **OK** to confirm the deletion.

Creating Directory Bindings

Directory bindings bind client computers to directory servers. You can create the following directory bindings:

- Active Directory (using Apple's built-in tools)
- Open Directory (using Apple's built-in tools)
- Active Directory using Likewise
- Active Directory using ADmitMac
- Active Directory using Centrify

The instructions in this section explain how to create each directory binding in the JAMF Software Server (JSS).

To create an Active Directory binding:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Casper Admin link.
- 4. Click the New Directory Binding button in the toolbar.
- 5. Select the Active Directory Binding (built into Mac OS X) option and click the Continue button.
- 6. Enter a display name for the binding.

This is an arbitrary name that allows you to choose the correct binding if more than one exists.

- 7. Enter the Active Directory domain.
- 8. Specify the user name and password for an Active Directory account that has permissions to add computers, and enter the password again to verify it.
- 9. In the field labeled **Computer OU**, enter the OU in which the computer object should be placed.

Display Name: New AD Bind	
bisping maine. Men Ab bind	na
Active Directory Domain: ad.mycompa	
Network Admin Username: Service	
Password: ••••••	
Computer OU: CN=compute	rs,DC=domain,DC=company,DC=com
Priority: 1	

- 10. If you are binding client computers with more than one directory binding, use the **Priority** pop-up menu to assign the order in which the bindings should be applied.
- 11. Enter any additional information on the User Experience, AD Mappings, and Administrative panes. The information specified on these panes is the same information entered when using Apple's Directory Utility application.
- 12. Click Save.

To create an Open Directory binding:

- 1. Log in to the **JSS** with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Casper Admin link.
- 4. Click the **New Directory Binding** button in the toolbar.
- 5. Select the **Open Directory Binding (built into Mac OS X)** option and click the **Continue** button.
- Enter a display name for the binding.This is an arbitrary name that allows you to choose the correct binding if more than one exists.
- 7. Enter the Open Directory server's DNS name or IP address.
- 8. If you use SSL to bind to the Open Directory server, select the checkbox labeled Encrypt Using SSL.

Edit Directory Binding: New Open Directory Binding	
0	
General	
Display Name:	New Open Directory Binding
DNS Name or IP Address:	od.mycompany.com
	Encrypt Using SSL
	Se for Authentication
	Se for Contacts
	Perform Secure Bind
Priority:	1
	(Cancel) (Save)

- 9. If you want to allow users from Open Directory to log in to other bound clients, select the Use For Authentication option.
- 10. If you want users from Open Directory to be listed as contacts on other client computers, select the Use For Contacts option.
- 11. If you want to bind to Open Directory securely, select the **Perform Secure Bind** checkbox and specify the user name and password for the directory account.

- 12. If you are binding client computers with more than one directory binding, use the **Priority** pop-up menu to assign the order in which the bindings should be applied.
- 13. Click Save.

To create a Likewise Active Directory binding:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Casper Admin link.
- 4. Click the New Directory Bindings button in the toolbar.
- 5. Select the Likewise Binding option and click the Continue button.
- Enter a display name for the binding.
 This is an arbitrary name that allows you to choose the correct binding if more than one exists.
- 7. Enter the domain to which you are binding.
- 8. Specify the user name and password for an administrator account and enter the password again to verify it.
- 9. In the field labeled **Computer OU**, enter the OU in which the computer object should be placed.

Edit Directory Binding: New Like	ewise Directory Binding
() General	
Display Name	New Likewise Directory Binding
	ad.mycompany.corp
Network Admin Username: Password:	
Verify Password:	
Computer OU: Priority:	CN=computers,DC=domain,DC=com 1
	Cancel Save

- 10. If you are binding client computers with more than one directory binding, use the **Priority** pop-up menu to specify the order in which the bindings will be applied.
- 11. Click Save.

To create an ADmitMac Active Directory binding:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Casper Admin link.

- 4. Click the **New Directory Bindings** button in the toolbar.
- 5. Select the **ADmitMAC Binding** option and click the **Continue** button.
- Enter a display name for the binding.
 This is an arbitrary name that allows you to choose the correct binding if more than one exists.
- 7. Enter the DNS name or IP address for the server to which you are binding.
- 8. Specify the user name and password for an administrator account and enter the password again to verify it.
- 9. In the field labeled **Computer OU**, enter the OU in which the computer object should be placed.

<i>i</i> General	Home Folders	Login Policy	Admin	AL OUs	Mappings	
	Display Name:	New ADmitMAC	Binding			
DNS	Name or IP Address:	ad.mycompany.	corp			
Netwo	rk Admin Username:	Service				
	Password:	•••••				
	Verify Password:					
	Computer OU:	CN=computers,	DC=domain,	DC=compa	iny,DC=com	
	Priority:	1 🗘				
					(Cancel) (Save

- 10. If you are binding client computers with more than one directory binding, use the **Priority** pop-up menu to specify the order in which the bindings will be applied.
- Enter any additional information on the Home Folders, Login Policy, Admin, OUs, and Mappings panes. The information specified on these panes is the same information entered when using Thursby's ADmitMac interface.
- 12. Click Save.

To create a Centrify Active Directory binding:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Casper Admin link.
- 4. Click the **New Directory Bindings** button in the toolbar.
- 5. Select the **Centrify Binding** option and click the **Continue** button.
- Enter a display name for the binding.This is an arbitrary name that allows you to choose the correct binding if more than one exists.
- 7. Enter the domain to which you are binding.

- 8. Specify the user name and password for an administrator account and enter the password again to verify it.
- 9. In the field labeled **Container DN**, enter the DN in which the client computers should be placed.

Edit Directo	ory Binding: New Cer	ntrify Directory Binding
0	S	
General	Centrify Options	
	Display Name:	New Centrify Directory Binding
	Domain:	ad.mycompany.corp
Networ	k Admin Username:	Service
	Password:	•••••
	Verify Password:	
	Container DN:	CN=computers,DC=domain,DC=company,DC=com
	Priority:	
		(Cancel) (Save)

- 10. If you are binding client computers with more than one directory binding, use the **Priority** pop-up menu to specify the order in which the bindings will be applied.
- Enter any additional information on the Centrify Options pane.
 The information specified on this pane is the same information entered when using the Centrify interface.
- 12. Click Save.

Configuring the Computer Management Framework

Use the Global and Computer Management Framework settings to control how the JAMF Software Server (JSS) and the other applications in the Casper Suite interact with client computers.

Global Management Framework Settings

The Global Management Framework settings allow you to configure and manage the following security components for the JSS:

- JSS URL
- Public key infrastructure (PKI)
- Apple Push Notification service (APNs) certificate

JSS URL

The JSS URL is the URL that client computers connect to when communicating with the JSS. The full URL of the JSS must be entered on this pane, including the correct protocol, domain, and port. For example:

https://jss.mycompany.com:8443/

If this field is blank or the URL is incorrect, client computers are unable to connect to the server.

To view the JSS URL:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Global Management Framework Settings link.
- 4. Click the JSS URL tab.

The URL of the JSS is entered in the **JSS URL** field.

		Global M	Management Fra	mework Settings	
4 JSS URL	Public Key	(Infrastructure	•	j tion Certificate	
JSS U	JRL				
This is t				nnect to when communicat	
JSS UF	-	https://norman.lo		Example: https://jss.m Example: http://jss.my	
		are installing Enrol	Iment Profiles with	l for accessing the built–in S th iPhone Configuration Util 1 leave this field blank.	
					Cancel Save
-	_	_	_		

5. Click Save.

Public Key Infrastructure

To ensure the security of over-the-air tasks, the JSS requires a PKI that supports certificate-based authentication. This includes:

- A certificate authority (CA) with Simple Certificate Enrollment Protocol (SCEP) capabilities
- A signing certificate
- A root CA certificate

If your organization currently uses a CA with SCEP capabilities, you can integrate it with the JSS. If not, the JSS has a built-in CA that is enabled by default. The built-in CA has the signing and root CA certificates uploaded for you.

To integrate with an existing CA:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Global Management Framework Settings link.
- 4. Click the Public Key Infrastructure tab.
- 5. Select Use External Certificate Authority and enter information about the CA.

	Global Mana	agement Framework Settings
4 JSS URL	Public Key Infrastructure Push	Notification Certificate
Publi	c Key Infrastructure	
requires		messages between itself and mobile devices. The JSS also tificate Authority. If you do not have access to this, you can urpose.
🔾 Use	Built-in Certificate Authority	
💽 Use	External Certificate Authority	
	Base URL for the SCEP Serve	r: [required]
т	he name of the instance: CA-IDEN	T: [optional]
Subjec	t (Representation of a X.500 name	(optional)
	Subject Alternative Name Typ	e: None +
	Challeng	e: [optional]
	Verify Challeng	e: [optional]
	Key Size in bit	s: 1024 ‡
	Use as digital signatur	
	Use for key enciphermer Fingerprint hex strin	
	ringerprint nex strin	9.
	Signing Certificat	e: Signing Certificate Assistant
		Cancel Save
		Cancel Save

6. To upload the signing and root CA certificates, click the **Signing Certificate Assistant** link and follow the onscreen instructions.

The assistant guides you through the steps to generate a certificate signing request (CSR) and upload the signing and root CA certificates.

7. When you complete the assistant, click **Save**.

Apple Push Notification Service Certificate

For the JSS to perform over-the-air management tasks, it must be able to communicate with Apple Push Notification service (APNs). To enable this communication, you must obtain an APNs certificate from Apple and upload it to the JSS.

The JSS guides you through the process of generating or renewing an APNs certificate from the Apple Push Certificate Portal. This process requires:

- A valid JAMF Nation account
 To create a JAMF Nation account, go to: <u>https://jamfnation.jamfsoftware.com/createAccount.html</u>
- A valid Apple ID

To generate or renew an APNs certificate:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Global Management Framework Settings** link.
- 4. Click the Push Notification Certificate tab.
- 5. To generate an APNs certificate for the first time, click the **Create a certificate using the Push Notification Certificate Assistant** link.

To renew your APNs certificate, click the Renew your Push Notification Certificate link.

- 6. Choose how you want to obtain the CSR.
 - If the server hosting the JSS has an outbound connection, select Request Signed CSR Automatically through JAMF Nation. Enter the user name and password for your JAMF Nation account, and then click Continue.

Get Signed CSR	Request Cert	Upload Cert	Complete
Get Signed CSR			
	by your JSS and sent to JAMF Softwa will be returned in a plist file, JAM		
generate the CSR.		lation	
 generate the CSR. Request Signed CSR. 	Automatically through JAMF N	lation	
 generate the CSR. Request Signed CSR JAMF Nation Us 	Automatically through JAMF N	lation	
generate the CSR.		lation	

The JSS connects to JAMF Nation over port 443 and obtains the signed CSR. (You will download the CSR in the next step.)

If the server hosting the JSS does not have an outbound connection, select **Download CSR and Request Signing Manually**. Then, follow the onscreen instructions to get the CSR signed.

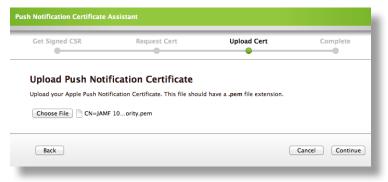
Get Signed CSR	Request Cert	Upload Cert	Complete
Get Signed CSR			
		se, JAMF Software must provide are. Once JAMF Software has veri	
		IF Software never has access to t	
Request Signed CSR A	utomatically through IAMF N	lation	
	utomatically through JAMF M quest Signing Manually	Nation	
Download CSR and Rev 1. Download PushCerti	quest Signing Manually ficateCSR.certSigningRequest		
 Download CSR and Rep 1. Download PushCerti 2. Upload PushCertific 	quest Signing Manually	to JAMF Nation here	
 Download CSR and Rep 1. Download PushCerti 2. Upload PushCertific 	quest Signing Manually ficateCSR.certSigningRequest cateCSR.certSigningRequest SignedCSR.plist file from JAM	to JAMF Nation here	
 Download CSR and Rep 1. Download PushCerti 2. Upload PushCertific 3. Download the JAME 	quest Signing Manually ficateCSR.certSigningRequest cateCSR.certSigningRequest SignedCSR.plist file from JAM	to JAMF Nation here	

7. On the Request Cert pane, follow the onscreen instructions to request an APNs certificate from Apple.



It is recommended that you sign in to the Apple Push Certificate Portal with a corporate Apple ID, since the account will be associated with your corporate APNs certificate.

8. On the Upload Cert pane, click **Choose File.** Select the APNs certificate (.pem) that you want to upload and click **Choose**. Then, click **Continue** in the JSS.



9. Click **Done** to save the certificate.

Computer Management Framework Settings

The Computer Management Framework settings allow you to set up and manage preferences for the following aspects of client management:

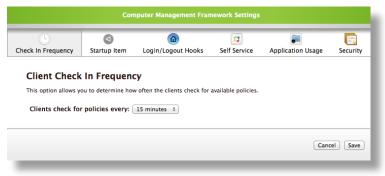
- Client check-in frequency
- Login and logout hooks
- Self Service application
- Application Usage
- Security

Check-In Frequency

The check-in frequency allows you to control how often client computers check the JSS for available policies.

To view or modify the check-in frequency:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Computer Management Framework Settings link.
- 4. On the Check-In Frequency pane, choose a check-in frequency from the pop-up menu.



5. Click Save.

Startup Item

Use this pane to create or remove a startup item and set preferences for how you want to use it. The following options are displayed on this pane:

Create startup item

Creates a launchd item that executes once at startup. The launchd item is stored in the following location:

/Library/LaunchDaemons/com.jamfsoftware.startupItem.plist

Log startup action

Logs the startup action and IP address of each client computer at reboot

Check for policies triggered by startup

Enables computers to check the JSS for policies triggered at startup

Apply Computer Level Enforced Managed Preferences

Applies computer-level Managed Preferences

Ensure SSH is running

Ensures SSH is active at reboot using the startup script

To set up or modify startup item preferences:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Computer Management Framework Settings link.
- 4. Click the **Startup Item** tab.
- 5. Select or deselect the Create startup item checkbox to create or remove the startup item.
- 6. Select or deselect additional options as needed.

0	٩	۵			
Check In Frequency	Startup Item	Login/Logout Hooks	Self Service	Application Usage	Security
Startun Itam					
Startup Item					
This option will crea preferences, and en		the clients that can log the	startup action, trig	ger policies, apply manag	ed
preferences, and en	sure that sorris act				
🗹 Create startu	p item				
🗹 Create startu 🗹 Log startu					
🗹 Log starti		d by startup			
☑ Log startu ☑ Check for	p action policies triggere	d by startup prced Managed Preferenc	es		
 ✓ Log startu ✓ Check for □ Apply Cor 	p action policies triggere		es		
 ✓ Log startu ✓ Check for □ Apply Cor 	up action policies triggere nputer Level Enfo		es		
 ✓ Log startu ✓ Check for □ Apply Cor 	up action policies triggere nputer Level Enfo		es		

7. Click Save.

Login and Logout Hooks

Use this pane to create or remove login/logout hooks and set preferences for how you want to use them. The following options are displayed on this pane:

Create login and logout hooks

Creates hooks that execute each time a user logs in or logs out

Log username with login and logout

Logs user names at login/logout and updates the computer's IP address in the JSS

Check for Policies with login and logout

Runs policies at login or logout that are used for tasks such as extending login/logout hooks by running custom scripts

Apply User Level Managed Preferences

Applies user-level and user-level enforced Managed Preferences

Hide Restore partition at login

Hides the Restore partition when a two or three-scheme partition is in use

Perform login actions in background

Allows large package deployments triggered at login or logout to take place without stopping the user's login process

Display status to user during login and logout

Displays the status of non-background login/logout hook actions to users when they log in or out of a computer

To set up or modify login and logout hook preferences:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Computer Management Framework Settings** link.
- 4. Click the Login/Logout Hooks tab.
- 5. Select or deselect the Create login and logout hooks checkbox to create or remove login/logout hooks.

	Co	mputer Management Fra	mework Setting	s	
9	٩	۵			
Check In Frequency	Startup Item	Login/Logout Hooks	Self Service	Application Usage	Security
Login and Lo	ogout Hooks	i			
		hooks on your client compu- , and hide a Restore partition		used to log computer usa	ge, check
Warning: If you have	e existing login hoo	ks on your client computers,	they may be over	vritten if you enable this c	ption.
Create login a	and logout hooks				
				Ca	incel Save

- 6. Select or deselect additional options as needed.
- 7. Click Save.

Self Service

The Self Service pane allows you to perform the following management tasks for Self Service:

- Automatically install Self Service on all managed computers
- Configure User Authentication preferences
- Add plug-ins

For more information about these tasks and how to perform them, see the following sections in this guide:

"Installing Self Service"

- "Managing User Authentication Preferences"
- "Managing Self Service Plug-ins"

Application Usage

Use this pane allows you to enable application usage for client computers. For information about application usage, see the "Application Usage" section.

To enable application usage monitoring:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Computer Management Framework Settings link.
- 4. Click the **Application Usage** tab.
- 5. Select or deselect the **Enable application usage monitoring** checkbox to enable or disable application usage monitoring, and then click **Save**.

C	٩	۵			
Check In Frequency	Startup Item	Login/Logout Hooks	Self Service	Application Usage	Security
Application	Usage Monit	toring			
	ou to track applicat	tion usage on your clients. Ap	oplication usage d	ata will be submitted to th	e JSS each
This option allows y time an inventory re	ou to track applicat	tion usage on your clients. Ap	oplication usage di	ata will be submitted to th	e JSS each
This option allows y time an inventory re	ou to track applicat port is submitted.	tion usage on your clients. Ap	oplication usage di	ata will be submitted to th	e JSS each

Security

Use this pane to set up or modify the following security preferences for client management:

Enable Certificate-Based Communication

Ensures that all messages from Mac OS X clients to the JSS are signed with a valid signature. The JSS rejects the message if the signature is invalid. (This option is selected by default for all fresh installs of the JSS.)

Enable Push Notifications for Mac OS X 10.7 clients

Allows Mac OS X 10.7 clients to perform secure transactions between the jamf binary and the JSS.

Note: This option is only displayed if certificate-based communication is enabled and an APNs certificate is uploaded to the JSS. See the "Apple Push Notification Service Certificate" section for more information.

This JSS has a valid certificate installed

Indicates that there is a valid web server certificate installed on the server.

Maximum Clock Skew

Sets a maximum difference in clock settings for the server and managed computers.

To set up or modify security preferences:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Computer Management Framework Settings** link.
- 4. Click the **Security** tab.
- 5. Select or deselect options as needed.

	٩	(2	.	
Check In Frequency	Startup Item	Login/Logout Hooks	Self Service	Application Usage	Security
Security Sett	inas				
		ecurity settings for communi	cation between co	nputers and the JSS.	
	🗹 Ena	ble Certificate-Based Co	mmunication		
		Enable Push Notifications	for Mac OS X v	10.7 clients	
	🔲 This	s JSS has a valid certifica	te installed		
	the	ning: If you do not have a va box labeled This JSS has a not be able to connect to th	valid certificate in	stalled, the client compu	
Maximum Clo	ock Skew: Do no	t verify 💠			
	con	rning: If the Maximum Clock puters differs more than the JSS, the client computers wil	selected number	of minutes from the UTC	

- 6. Set or modify a maximum clock skew by choosing an option from the Maximum Clock Skew pop-up menu.
- 7. Click Save.

Managing Removable MAC Addresses

Computers are identified by their MAC addresses during the imaging process. This makes utilizing USB Ethernet dongles during imaging problematic, since the JAMF Software Server (JSS) assumes that each computer with a specific dongle is connected to the same computer.

To work around this issue, you can specify a list of MAC addresses that the JSS should ignore when identifying a computer.

The instructions in this section explain how to add, edit, and delete a removable MAC address.

To add a removable MAC address:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. Click the Removable MAC Addresses link.
- 5. Click the Add Address button.

	Removable MAC Addresses	
•		
Add Address		
	No Removable MAC Addresses entered	
		_

6. Enter the MAC address you want the JSS to ignore in the Mac Address field.

ddress:		
		Cancel Save
	ddress:	ldress:

7. Click the **Save** button.

To edit a removable MAC address:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. Click the **Removable MAC Addresses** link.

5. Click the Edit MAC Address link across from the MAC address you want to edit and update the address.



6. Click Save.

To delete a removable MAC address:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. Click the **Removable MAC Addresses** link.
- 5. Click the **Delete MAC Address** link across from the MAC address you want to delete.

Removable MAC Addresses							
Add Address							
	Removable MAC Address						

6. Click **Delete** to confirm.

Policies

Policies allow you to automate remote management tasks on client computers by pre-configuring the tasks and caching them in the JAMF Software Server (JSS). This reduces the time you spend configuring individual tasks and pushing them out to computers by allowing clients to initiate the tasks when they check in with the JSS.

The following tasks are common tasks that you can perform with a policy:

- Installing and uninstalling packages
- Running scripts
- Adding and removing printers
- Running Software Update
- Adding and removing Dock items
- Binding clients to directory services
- Updating computer inventory
- Performing maintenance functions (Self Healing, fix permissions, update computer names, etc.)
- Managing account passwords

How Policies Work

Using policies to automate remote management tasks allows you to specify the task(s) you want to perform, when and how often the task(s) should take place, and the clients that should execute the task(s).

After saving the policy, it is stored in the JSS. Each time clients check in with the JSS, they check to see if any policies are available.

Clients execute policies based on three main criteria: trigger, scope, and execution frequency.

Trigger

A trigger is the action on a client that executes the policy. Clients can execute policies at the following triggers:

- None (Self Service only)—Users initiate the policy through the Self Service application
- Any—The next time the client checks in with the JSS
- Startup—When the client starts up
- Login—When a user logs in on a client
- Logout—When a users logs out on a client
- Check-In Frequency—This is one of the following intervals:
 - 5 minutes
 - 15 minutes
 - 30 minutes
 - Hour

Check-in frequency is configured as part of your Computer Management Framework settings. For information on how to change the check-in frequency, see the "Changing the Computer Management Framework" section.

• Other—A custom trigger

Scope

The scope is the computer or group of computers that executes the policy. Scopes can be based on one or more of the following components:

- Individual computers
- Computer groups
- Departments
- Buildings
- LDAP user groups
- Network segments

Execution Frequency

The execution frequency is how often clients execute the policy. This depends largely on the task you want to perform. For example, if you're installing a piece of software, you may want to choose "Once Per Computer" to ensure only one copy of the software is installed on each computer. If you're updating inventory or performing a routine maintenance tasks, you may want to choose "One Every Day, "Once Every Week," or "Once Per Month."

Policies can be set at the following execution frequencies:

- Once per computer
- Once per user (At login or logout)
- Once every day
- Once every week
- Once per month (Every 30 days after the first day the policy runs on the computer)
- Ongoing (Every time the trigger takes place)
- Disable (Makes the policy inactive)

Configuring Policies

There are two ways to configure policies with the Casper Suite: using the Policy Assistant or manually.

The Policy Assistant guides you through the process of configuring a policy to perform the following, basic tasks:

- Install a package
- Cache a package
- Install a cached package

- Uninstall a package
- Add a printer
- Remove a printer
- Run a script

Configuring a policy manually gives you a variety of extended policy options. The following options allow you to configure date, time, and network limitations:

- Overriding default settings
- Performing multiple tasks with a single policy
- Setting reboot criteria

The manual policy interface is made up of the following panes:



The General and Scope panes let you configure trigger, scope, and execution frequency, while the other eight panes let you set tasks and specify additional criteria.

This section explains each pane in the policy framework and provides basic instructions on how to configure policies using the Policy Assistant and manually.

General Pane

1 eneral	Scope	Self Service	😻 Packages	Scripts	Printers	SS Dock	Accounts	() Reboot	🔅 Advanced
				,					
Dis	play and Ex	ecution Setting	s						
	Disp	lay Name: Untit	led Policy						
		Category: No (Category 🛟						
		ggered By: Non							
	Execution F	Frequency: Disa	ibled	•					
► Dat	te and Time	e Limitations							
► Net	twork Limit	tations							
► Ov	erride Defa	ult Policy Settin	gs						

This pane lets you configure the following criteria for a policy:

Display Name (Required)

Enter a display name for the policy.

Category

Assign the policy to a category.

Triggered By (Required)

Choose the event in which client computers initiate the policy.

Execution Frequency (Required)

Specify how often client computers execute a policy.

Server-Side Limitations

Specify when you want the policy to become active and expire on the server. The policy is available to client computers between the times you specify.

Client-Side Limitations

Specify the days and times you don't want client computers to execute the policy.

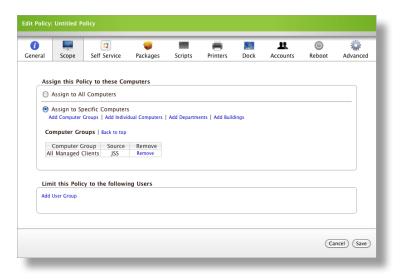
Network Limitations

Specify the network requirements client computers must meet to run a policy.

Override Default Policy Settings

Specify the distribution point, Software Update Server, or NetBoot Server from which client computers should pull packages, run software updates, or reboot. This lets you install packages to a drive other than the current boot drive.

Scope Pane



This pane lets you specify which client computers execute the policy.

If you integrate with an LDAP server, you can further limit the scope to users of an LDAP group.

Self Service Pane

Self Service O	Self Ser	vice Pa	ckages	Scripts					A share so and
Self Service O				5-1.pt5	Printers	Dock	Accounts	Reboot	Advanced
	ntions								
	ptions								
		🗹 Allow thi	s Policy t	o be used fe	or Self Servi	ce			
Install B	utton Text:	Install							
		Force us	ers to view	w descriptio	on				
	escription:	-		or soul					
								1	
	Icon:	None Chose	n Choose	File					
-									
		Feature	This Policy	y on the Ma	in Page				
	Categories:	Category	Display	Featured					
		Apps	1						
		OS							
		Scripts							
		Unknown							

This pane lets you make the policy available through Self Service. For detailed instructions on how to make policies available through Self Service, see the "Making Policies Available in Self Service" section.

Packages Pane

() ieneral	Scope	Self Service	💝 Packages	Scripts	Printers	Sala Dock	Accounts	() Reboot	🌞 Advanced
Pac	:kages								
	Packag	ge Name	Action	FUT	FEU	Autorun Remove			
			There	are no packa	ges in this po	licy			
	Package	ackages			Software	Update			
	I Cached Pa	ackages Install All Cached	d Packages				Install All Soft	ware Update	5
	I Cached Pa		d Packages				Install All Soft	ware Update	5

This pane lets you configure the policy to perform the following software distribution tasks:

- Install, cache, install cached, or uninstall a package
- Set the default Software Update server
- Run Software Update

For detailed instructions on how to configure a policy to perform these tasks, see the "Software Distribution" chapter and the "Running Software Update" section.

Scripts Pane

() General	Scope	Self Service	Sackages	Scripts	Printers	Dock	Accounts	(U) Reboot	Advanced
Script	5								
		Script Name			Priority		R	emove	
			There	e are no scrip	ots in this pol	icy			
Add	Script								

This pane lets you configure the policy to run a script and set the following script-related information:

- Priority (Run the script at the beginning or end of the policy.)
- Parameters

For detailed instructions on how to configure a policy to run a script, see the "Running Scripts" section.

Printers Pane

() General	Scope	CC Self Service	🥪 Packages	Scripts	Printers	Dock	Accounts	(U) Reboot	dvanced
Print	ers								
	Name	URI	Model	Action	1	Make D	efault	Remov	re .
			There	are no printe	ers in this po	licy.			
Add	Printer								
)

This pane lets you configure the policy to add or remove a printer. For detailed instructions on how to configure a policy to add or remove a printer, see the "Managing Printers" section.

Dock Pane

Remove

This pane lets you configure the policy to add or remove a Dock item. If you are adding a Dock item, you can also specify where to add the item on the Dock.

For detailed instructions on how to configure a policy to add or remove a Dock item, see the "Managing Dock Items" section.

Accounts Pane

neral Scope Self-Service Packages Scri	ts Printers Dock Accounts Reboot Advance				
Create Accounts/Reset Passwords/Delete Account Usemame Action Edit Remove There are no changes to local accounts.	Change Management Account Password Do Not Change Randomly Generated Passwords Number of Characters: Change To: Change To				
New Account Reset Password Delete Existing Account					
Directory Bindings There are no Directory Bindings.	Open Firmware/EFI Password Set Open Firmware/EFI Password Mode: None Password: Verify:				

This pane lets you configure the policy to perform the following account-related tasks:

- Create and delete local accounts
- Reset local, management, and Open Firmware/EFI account passwords
- Create directory bindings

For detailed instructions on how to configure a policy to perform these tasks, see the following sections:

- "Managing Local Accounts"
- "Binding to a Directory Service"
- "Managing Open Firmware/EFI Passwords"

Reboot Pane

If Nobody Is Logged In If Anybody Is Logged I	n
O Do not Reboot	
Reboot Immediately Reboot	
Reboot only if a package or SWU requires Reboot only if a package	age or SWU requires
Give User 5 minutes a	after clicking OK
O Reboot Immediately	
Reboot Options)
Message: This computer will reboot in 5 minutes. Please save anything you are working on and log out by choosing Log Out from the bottom of the Apple Menu.	Display message if not rebooting
Reboot To: Current Startup Disk 🔹 Disk Name:	

This pane lets you set reboot specifications for client computers executing the policy, display a message at reboot, and specify the drive to which clients reboot.

Advanced Pane

() eneral	Scope	Self Service	🥪 Packages	Scripts	Printers	Nock	Accounts	() Reboot	Advanced
Mai	ntenance								
0.	Ipdate Inven	tory	🗆 L	Jpdate Prebi	ndings		Flush System	Caches	
E R	leset Compu	ter Names	E F	ix Permissio	ins		Flush User Ca	ches	
🗆 S	elf Heal Pack	kages	F	ix ByHost Fi	les		Verify Startup	Disk	
	th for file by Spotlight S Search for P	Search:						Update L	
	Run Com	nmand:							
▶ Man	agement Fra	amework Optior	ns - Not requir	ed for clien	s running 7.	3 or later			

This pane lets you configure the policy to execute the following maintenance-related tasks:

- Update inventory
- Reset computer names
- Update pre-bindings
- Fix permission
- Fix ByHost file
- Flush system caches

- Flush user caches
- Verify startup disk

If you are using the Self Healing feature, you can also configure the policy to run Self Healing on this pane. For detailed instructions on how to configure a policy to run Self Healing, see the "Using the Self Healing Feature" section.

To configure a policy using the Policy Assistant:

- 1. Open the JSS in a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Click the **Create Policy** button.
- 5. Select the task you want to perform with the policy, and then click **Continue**.
- 6. Follow instructions on each pane to configure the policy.

When you're finished using the assistant, you can make changes or configure additional options manually by clicking the **Edit Manually** button on the last pane.

To configure a policy manually:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Policies** link.
- 4. Click the **Create Policy** button.
- 5. Enter a display name for the policy and assign it to a category.
- 6. Choose a trigger from the **Triggered By** pop-up menu.

If you choose Other, you will need to specify a manual trigger.

- 7. Choose an execution frequency from the **Execution Frequency** pop-up menu.
 - If you choose Ongoing, you can make the policy available to client computers that are offline by selecting the Make Available Offline checkbox.

This caches each component of the policy on client computers, making them available even when clients are not on the network.

- If you choose **Disable**, clients do not execute the policy.
- 8. Click the **Scope** tab and specify the computers you want to execute the policy.
 - If you want every computer to execute the policy, select the Assign to All Computers option.
 - If you only want certain computers to execute the policy:
 - a. Select the Assign to Specific Computers option.
 - b. Click the Add <group> link that corresponds to the computers you want to add.

c. Select the Add checkbox across from the computers or groups you want to add.

() General	Scope	Self Service	🥪 Packages	Scripts	Printers	Dock	Accounts	() Reboot	Advanced
		Computer Gro	qu		Compi	uters	Source		Add
		All Managed Cli			0		JSS		
		All Managed Ser	vers		0		JSS		
	jam	f Binary Version	Mismatch		0		JSS		
			(Add Compute	er Group(s)				

- d. Click the **Add** <**group**> button at the bottom of the list.
- 9. If you integrate with an LDAP server and you want to limit the scope to members of an LDAP group:
 - a. Click the Add User Group link.
 - b. Select the Add checkbox across from the groups you want to add.
 - c. Click the Add button at the bottom of the list.
- 10. Use the rest of the tabs to configure the policy.
- 11. Click Save.

Client computers execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

Managing Policies

The instructions in this section explain how to do the following:

- View the plan for a policy
- View the status of a policy
- Duplicate a policy
- Edit a policy
- Delete a policy

To view the plan for a policy using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.

4. Click the **Show Plan** link across from the policy.

A complete task list for the policy is displayed.

Plan for Policy: Install Firefox	
Install Firefox.dmg	
Run Recon	
	(Continue)

5. Click Continue.

To view the status of a policy:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Policies** link.
- 4. Click the **View Status** link across from the policy.

The table at the top of the page displays an overview of the policy's status. Beneath it is a list of client computers that have executed the policy.

Clients that have encountered a problem while executing the policy are displayed in red text.

- 5. If there are clients that encountered problems, you can have them execute the policy again by clicking the **Flush All History With Problems** link.
- 6. If you want to execute the policy again on all clients, click the **Flush Entire Policy History** link. This resets the policy, making it appear as if it had never been executed.
- 7. Click Continue.

Clients execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To duplicate a policy:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Policies** link.
- 4. Click the **Duplicate Policies** button.
- 5. Locate the policy you want to duplicate and click the **Duplicate** link across from it.
- 6. Make changes if necessary.
- 7. Click Save.

To edit a policy using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Click the **Edit Policy** link across from the policy and make changes.
- 5. Click Save.

To delete a policy using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Click the **Delete Policy** link across from the policy.
- 5. Click **Delete**.

Inventory

Managing Inventory Preferences

Inventory preferences are divided into two sections:

- Inventory Collection preferences—These preferences let you collect additional inventory items and specify how you want to collect them.
- Inventory Display preferences—These preferences let you change how inventory data is displayed in the JAMF Software Server (JSS).

This section explains both types of inventory preferences and how to set them.

Inventory Collection Preferences

Inventory Collection preferences let you manage inventory data by doing the following:

- Collecting additional inventory items
- Creating extension attributes to collect custom data
- Specifying additional locations in which to search for software

Collecting Additional Inventory Items

If the items you want to collect are not included in your inventory by default, you can choose to add any of the following items:

- Application details
- Fonts
- Plug-ins
- UNIX executables
- Package receipts
- Software updates
- Accounts
- Home directory sizes

- Hidden accounts
- Printers
- Running services
- Scheduled tasks
- Command-line tools
- Mobile devices
- Mobile device app purchasing information

Collecting some of these items may add reporting time and network traffic to the inventory process. The following table provides an estimate of how much time and traffic each item adds.

Note: These numbers are based on a MacBook Pro with approximately 100 applications, 2000 UNIX executable files, 300 fonts, 900 plug-ins, and 300 GB of user home directories.

Additional Inventory Items	Time	Traffic
	(Seconds)	(KB)
Default	9	102
(No Additional Items)		
Application Details	30	133
(Size, Copyright Info, Date Modified, Bundle ID, and Permissions)		
Fonts	10	128
Plug-ins	13	248
UNIX Executable Files	28	200
Available Software Updates	110	104
Sizes of Home Directories	25	104
All Additional Options	180	726

To collect additional inventory items:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. Click the Inventory Collection Preferences link.
- 5. Click the tabs to see a list of additional items in each category and select the checkbox next to each item you want to add.

Note: If you choose to collect application details, the .app bundles on Mac OS X computers are searched for additional applications. If you choose to collect application details and UNIX executables, the executable files in any .app bundle are also searched.

6. Click Save.

Creating Extension Attributes

Extension attributes are custom fields that allow you to collect almost any data from a computer. You can create an extension attribute manually or from a template stored in the JSS. You can also upload an extension attribute obtained from an outside source, such as JAMF Nation.

Creating an extension attribute manually allows you to populate data by displaying a text field or pop-up menu, or by running a custom script. Extension attributes created from a template or obtained from an outside source are populated by script.

When an extension attribute is populated by a script, the text between the <result></result> tag is stored in the JSS. For Mac OS X computers, scripts can be written in any language that has an interpreter installed. All scripts must start with a shebang (#!) followed by the absolute path to the interpreter. The most common interpreters are:

/bin/bash /bin/sh /usr/bin/perl /usr/bin/python

For example, the script for an extension attribute that collects the host name from Mac OS X computers looks like this:

```
#!/bin/sh
echo "<result>`hostname 2>&1`</result>"
```

For Windows computers, scripts can be written in VBScript, Batch file, and PowerShell.

Note: PowerShell scripts only run on computers that have components installed to execute the script.

Extension attributes can add time and network traffic to the inventory process depending on the type of data you choose to collect and how you choose to collect it.

Like other inventory data, extension attributes can be used as criteria for smart computer groups and advanced computer searches.

To create an extension attribute manually:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. Click the Inventory Collection Preferences link.
- 5. Click the **Extension Attributes** tab.
- 6. Click the Add Extension Attribute link.



- 7. Enter a display name for the attribute.
- 8. (Optional) Enter a description.

This description is displayed when you hover over the **Info 1** icon in the list of extension attributes on the Extension Attributes pane.

- Choose String, Integer/Real or Date from the Data Type pop-up menu.
 This is how the field is evaluated when creating smart computer groups or performing advanced computer searches.
- 10. Choose whether to populate the information using a text field, pop-up menu, or script.
 - If you choose a text field or pop-up menu, choose the pane on which you want to display the attribute in Recon's interface.
 - If you choose to run a script, type or paste the script into the field that appears.
- 11. If you chose to populate the information using a pop-up menu, click the **Add Value** link and specify menu options for the pop-up menu.

24		(e)	<u>11</u>	-	*	7.0	
oftware	Package Receipts	Software Updates	Accounts	Printers	Services	Extension Attributes	Mobile Devices
Edit I	Extension Attrib	ute					
	Display Name:	VIP					
	Description:						
	Data Type:	String	; 0				A
	Input Type:	Popup Menu)				
		Extension Attributes	tab in Recor	1			
	Choices:	Value					
		No Values Specified					
		Add Value					

12. Click the **OK** button, and then click **Save**.

To create an extension attribute using a template:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. Click the Inventory Collection Preferences link.
- 5. Click the **Extension Attributes** tab.
- 6. Click the Add Extension Attribute From Template link.

7. Click the disclosure triangles to see a list of the templates in each category and click the **Add** link across from the template you want to add.

	. 🤪 🐚 🏛 🚔 🖳 🚦							
ware	Package Receipts	Software Updates	Accounts	Printers	Services	Extension Attributes Mobile Device	s	
-								
:xtei	nsion Attribute T	emplates						
lick th	e link labeled Add next to t	he Extension Attribute	that you would	like to add.				
▼ Net	tworking							
	Display Name				Description			
1	Host name	This attribute returns	the host name of	the computer.	This attribute ap	plies to both Mac and Windows.	Add	
1	Network Services List	This attribute lists all network services present on a machine. This attribute applies to both Mac and Windows.						
1	Active Network Interface	This attribute displays the currently active network interface. This attribute applies to both Mac and Windows.						
	AirPort Power	This attribute displays	the AirPort powe	r status. This at	tribute applies to	o Mac only.	Add	
		This attribute displays	the network the	AirPort is joined	to. This attribu	te applies to Mac only.	Add	
	Current AirPort Network	rvers This attribute lists all DNS servers set on the active network connection. This attribute applies to both Mac and Windows.						
0	DNS Servers	This attribute lists all						
0				et on the active	network connect	tion. This attribute applies to both Mac and Window	rs. Add	
([DNS Servers			et on the active	network connec	tion. This attribute applies to both Mac and Window	rs. Add	
C E S ► Ant	DNS Servers Search Domains			et on the active	network connec	tion. This attribute applies to both Mac and Window	rs. Add	
E Ant ► Ant ► Vir	DNS Servers Search Domains tiVirus tualization			et on the active	network connec	tion. This attribute applies to both Mac and Window	rs. Add	
► Ant ► Vir ► Dis	DNS Servers Search Domains tiVirus tualization sk Encryption			et on the active	network connec	tion. This attribute applies to both Mac and Window	rs. Add	
► Ant ► Viri ► Dis ► Ser	DNS Servers Search Domains tiVirus tualization sk Encryption			et on the active	network connec	tion. This attribute applies to both Mac and Window	rs. Add	

8. Click Save.

Computers run the script and populate the attribute field each time they submit inventory to the JSS.

To upload an extension attribute to the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. Click the Inventory Collection Preferences link.
- 5. Click the **Extension Attributes** tab.
- 6. Click the **Upload Extension Attribute** link.
- 7. Click **Choose File** and select the extension attribute that you want to upload. Then, click **Upload Extension Attribute**.

The extension attribute must have a .xml file extension.



8. Click Save.

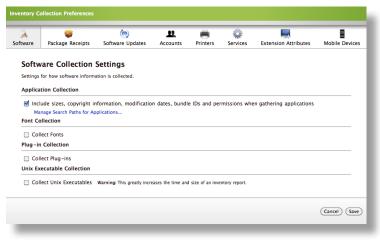
Computers run the script and populate the attribute field each time they submit inventory to the JSS.

Adding Custom Search Paths

By default, Recon searches for software items (application details, fonts, plug-ins, and UNIX executables) in common locations on Mac OS X and Windows computers. You can define additional locations in which you want Recon to search by adding one or more search paths.

To add custom search paths:

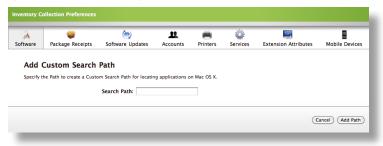
- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. Click the Inventory Collection Preferences link.
- 5. On the Software pane, click the Manage Search Paths for <item> link below the software item.



6. Click the Add Search Path for <platform> link that indicates the correct platform.

Inventory Collection Preferences									
Software	e e la compañía de la		۲	1		÷	.		
Software	Package Recei	pts S	oftware Updates	Accounts	Printers	Services	Extension Attributes	Mobile Devices	
			tions are located on a	a hard drive.					
Mac OS	^								
	arch Path								
		uilt-in)							
Window	earch Path for Mac	US X							
S	earch Path								
C:\P	rogram Files\	(Built-in)							
Add Se	earch Path for Wine	dows							
_								Cancel Save	

7. Type the search path you want to add, and then click Add Path.



8. Click Save.

Inventory Display Preferences

Inventory Display preferences let you modify how inventory data is displayed throughout the JSS.

The instructions in this section explain how to do the following:

- Add or remove attribute fields from the default inventory search results (Standard Webpage report)
- Create custom field labels
- Group extension attributes on the Computer Details page and the Criteria pane for advanced inventory searches and smart computer groups
- Display app icons on the Mobile Device Details page

To change the attribute fields displayed in inventory search results:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. Click the Inventory Display Preferences link.
- 5. Click the tabs to locate the attribute fields you want to display or remove.

6. Select the **Default** checkbox to display the attribute or deselect it to remove the attribute.

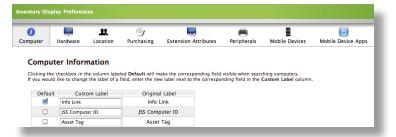
nventory Display Preferences								
0	<u> </u>	11	1				\odot	
Computer	Hardware	Location	Purchasing	Extension Attributes	Peripherals	Mobile Devices	Mobile Device Apps	
Clicking the If you would Default	like to change	ne column labe	led Default will m field, enter the new Origina	ake the corresponding field v label next to the correspo I Label	visible when sear nding field in the	thing computers. Custom Label column		
	Info Link		Info L	lnk				
	JSS Comput	er ID	JSS Comp	outer ID				
	Asset Tag		Asset	Tag				
	Platform		Platfo	orm				
	Computer N	lame	Compute	r Name				
	Bar Code		Bar C	ode				
	Last Contac	t Time	Last Conta	act Time				
	Last Report	Date	Last Repo	ort Date				
1	Managed		Mana	ged				
	jamf Binary	Version	jamf Binar	Version				
	IP Address		IP Add	ress				
	Operating S	vstem	Operating	System				

7. Click Save.

To change the name of an attribute field:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. Click the Inventory Display Preferences link.
- 5. Click the tabs to locate the attribute field you want renamed.
- 6. Type a new name in the **Custom Label** field next to it.

If you are renaming an extension attribute, type a new name in the **Display Name** field.



7. Click Save.

To group extension attributes:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. Click the Inventory Display Preferences link.

5. Click the **Extension Attributes** tab and use the **Display in Section** pop-up menus to choose a category in which to display the attribute.

This determines where the attributes are displayed on the Computer Details page and the Criteria pane when you are configuring advanced inventory searches and smart computer groups.



6. Click Save.

To display app icons in the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. Click the Inventory Display Preferences link.
- Click the Mobile Device Apps tab and select the Display icons for mobile device applications checkbox.
 This displays the icons in the Installed Applications section on the Mobile Device Details page.



6. Click Save.

Managing Peripheral Types

You can track an unlimited number peripherals as part of your inventory. Purchasing and location information are included for each peripheral by default.

The instructions in this section explain how to add, edit, and delete a peripheral type in the JAMF Software Server (JSS).

To add a peripheral type:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. Click the **Peripheral Types** link.
- 5. Click the **Create Peripheral Type** button in the toolbar.
- 6. Enter a name for the peripheral type, such as "Scanner" or "Printer".
- 7. In the fields labeled **Field 1–7 Label**, enter the name of attribute that you want to track, such as "Make", "Model", "Serial Number", or "Connection Type".
- 8. If you entered an attribute that has a finite number of choices, such as "Connection Type":
 - a. Select the Menu option.
 - b. Use the **Choices** pop-up menu to specify the number of menu options you want to include in the menu. For instance, if your connection possibilities are USB, FireWire, and Parallel, and SCSI select "4" from the **Choices** pop-up menu.

Add New Peripheral Type			
Peripheral Type:	Scanner		
Field 1 Label:	Make	Text 💿 Menu 🔘 Choices 1 🛟	
Field 2 Label:	Model	Text 💿 Menu 🔿 Choices 1 🛟	
Field 3 Label:	Asset Tag	Text 💿 Menu 🔿 Choices 1 🛟	
Field 4 Label:	Serial Number	Text 🖲 Menu 🔿 Choices 1 🛟	
Field 5 Label:	Connection Type	Text 🔘 Menu 💿 Choices 🚺 😫	
Field 6 Label:		Text 💿 Menu 🔘 Choices 1 🛟	
Field 7 Label:		Text 💿 Menu 🔿 Choices 1 😝	
	Next	t)	
			Cancel

9. Click the **Next** button.

10. If you chose to display an attribute field as a menu, specify the menu options by typing them in the fields provided.

Peripheral Type:	Scanner
Make:	Text Field
Model:	Text Field
Asset Tag:	Text Field
Serial Number:	
Connection Type:	USB
	Firewire
	Parallel
	SCSI
(Finish

11. Click the **Finish** button.

To edit a peripheral type:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. Click the **Peripheral Types** link.
- 5. Click the Edit Peripheral Type link across from the peripheral you want to edit.
- 6. If you want to change the order in which the fields are listed, use the **Reorder** pop-up menus to do so, and then click the **Change Order** button.
- 7. Make the necessary changes and click the **Confirm Changes** button.
- 8. Verify the changes and click the **Save Changes** button.

To delete a peripheral type:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Inventory Options link.
- 4. Click the **Peripheral Types** link.
- 5. Click the **Delete Peripheral Type** link across from the peripheral you want to delete.
- 6. Click **Delete** to confirm.

Acquiring Mac OS X Computers

There are a number of ways to acquire Mac OS X computers as part of your inventory. Each method has advantages depending on the situation.

The primary methods for acquiring Mac OS X computers are:

- Scanning the network
- Using a QuickAdd package

There are also several alternative methods:

- Acquire a single computer remotely.
- Run Recon locally.
- Image new computers with a PreStage.
- Image computers with a configuration that is associated with an SSH account.
- Acquire a computer manually.

Scanning the Network

You can use Recon's network scanner to acquire computers that have SSH (Remote Login) enabled. This requires you to specify a range of IP addresses and one or more administrator accounts that have SSH access to the computers. Recon then scans the specified IP range and acquires any computers that it can connect to over SSH.

To acquire computers by scanning the network:

- 1. Open Recon.
- 2. Authenticate to the JSS and click **Connect**.
- 3. Select Network Scanner in the sidebar.
- 4. If you have network segments specified in the JSS, choose the network segment(s) you want to scan by clicking the **Network Segments** button below the IP ranges list.

Alternatively, you can create custom IP ranges by clicking the **Add** (+) button below the IP Ranges list and entering the beginning and ending IP address. Then, use the pop-up menus to set default locations and servers for the computers, and click **OK**.

Starting IP Address:		
Ending IP Address:		
efaults for Computers Fo	ound in this IP Rar	ige
Department:	None	\$
Building:	None	\$
File Server:	None	\$
Software Update Server:	None	\$
NetBoot Server:	None	¢

5. Specify one or more administrator accounts that have SSH access to the computers by clicking the Add (+) button below the Possible SSH Accounts list.

If more than one administrator account exists on the network, enter credentials for each account. Recon tries each set of credentials until it finds a valid account for the computer.

6. To ignore computers that are already in the JSS, select the **Do not scan IPs of computers already in the JSS** checkbox.

E Cocal Inve	ntory	tor my compa	ny – Network Scanner		-
Remote In		work Scanner			
QuickAdd		work Scanner			
Network			Possible SSH A		
	IP Ranges				
	Starting IP	Ending IP	Username	Password	
	10.10.14.22	10.10.14.255	admin	•••••	
	+ - Netw	ork Segments 🔻	+ -		
	_				
	🗹 Do not so	an IPs of computers already in the	JSS		
	Rescan IP Ra	nges: Don't Rescan ‡			
+ -				Scan	
· · ·				Jean	

- 7. To continuously scan the network for new computers, specify how often Recon should rescan by choosing from the **Rescan IP Ranges** pop-up menu.
- 8. Click **Save As** to save the settings.

This creates a .recon file that can be opened with Recon.

9. Click the **Scan** button.

Once these steps are complete, Recon attempts to connect and authenticate to each IP address that has SSH enabled. The results of the scan are displayed on the Inventoried, Not Found, and Problems panes.

Using a QuickAdd Package

A QuickAdd package is a standard PKG that you can install on computers to acquire them. Recon allows you to create QuickAdd packages that you can deploy using a remote desktop tool (such as Apple Remote Desktop) or give to end users to install.

When you create a QuickAdd package, you can configure it to perform the following actions on computers:

- Set a management account. (Required)
- Enable SSH (Remote Login).
- Check for policies after the package is installed.
- Launch Self Service after the package is installed.

To create a QuickAdd package:

- 1. Open Recon.
- 2. Authenticate to the JSS and click **Connect**.
- 3. Select QuickAdd Package in the sidebar.
- 4. To change the account that the QuickAdd package uses to authenticate, click the **Change** button. Enter credentials for the account, and then click **Connect**.

00	Recon for My Company – Quick Add Package
Local Inventory Carlot Remote Inventory QuickAdd Package	🥪 QuickAdd Package
Q Network Scanner	Enter a service account that the QuickAdd package will use to add the computers to the JSS. The account must have the Add Hardware privilege in the JSS.
	Authenticate to JSS as: admin Change
	Enter management account information.
	Username:
	Password:
	Verify Password:
	Create this account if it does not exist
	Hide this account from the Mac OS X Login Window
	Configure SSH (Remote Login) to only allow access for this user
	Enable SSH (Remote Login)
	Check for policies when done
	Launch Self Service when done
+ -	Create

5. Specify the account that you want to use for management.

This can be a new account or an existing account.

If the management account is a new account, select the checkbox labeled **Create this account if it does not exist** and Recon will create the account for you.

- 6. If the management account is a new account, you can configure the following additional options:
 - Hide the account by selecting the Hide this account from the Mac OS X Login Window checkbox.
 - Make the account the only account that has SSH access to the computers by selecting the Configure SSH (Remote Login) to only allow access for this user checkbox.

0 0	Recon for My Company – Quick Add Package
Local Inventory Carlot Remote Inventory QuickAdd Package Carlot Network Scanner	😺 QuickAdd Package
e Network Scanner	Enter a service account that the QuickAdd package will use to add the computers to the JSS. The account must have the Add Hardware privilege in the JSS.
	Authenticate to JSS as: admin Change
	Enter management account information.
	Username: admin
	Password:
	Verify Password:
	Create this account if it does not exist
	☐ Hide this account from the Mac OS X Login Window
	Configure SSH (Remote Login) to only allow access for this user
	Enable SSH (Remote Login)
	Check for policies when done
	Launch Self Service when done
+ -	Create

- 7. To enable SSH on the computers, select the Enable SSH (Remote Login) checkbox.
- 8. If you want the computers to check for policies immediately after the package is installed, select the **Check for policies when done** checkbox.
- 9. If you want computers to launch Self Service immediately after the package is installed, select the Launch Self Service when done checkbox.

This option is only available if you selected the **Check for policies when done** checkbox.

10. Click the **Create** button.

0 0	Recon for My Company - Quick Add Package
Local Inventory Remote Inventory QuickAdd Package	QuickAdd Package
Overwork Scanner	Enter a service account that the QuickAdd package will use to add the computers to the JSS. The account must have the Add Hardware privilege in the JSS.
	Authenticate to JSS as: admin Change
	Enter management account information.
	Username: admin
	Password: ••••••
	Verify Password:
	Create this account if it does not exist
	Ilide this account from the Mac OS X Login Window
	${oxed V}$ Configure SSH (Remote Login) to only allow access for this user
	☑ Enable SSH (Remote Login)
	Check for policies when done
	Launch Self Service when done
+ -	Create

- 11. Save the package to the desired location.
- 12. Deploy the package using a remote desktop tool or give the package to end users to install.

Acquiring a Single Computer Remotely

If you know the DNS name or IP address for the computer that you want to acquire, you can use Recon to acquire it remotely without scanning the network. This allows you to enter detailed information for the computer before you acquire it.

To use this method, the computer must have SSH enabled.

To acquire a single computer remotely:

- 1. Open Recon.
- 2. Authenticate to the JSS and click **Connect**.
- 3. Select **Remote Inventory** in the sidebar.
- 4. Enter the IP address of the computer you want to add.

Local Inventory	
Remote Inventory	
QuickAdd Package	
Quickeud Fackage	Enter information about the remote computer that ou would like to add to the JSS.
	Connect

5. Enter credentials for an administrator account that has SSH access to the computer, and click the **Connect** button.

6. (Optional) Select Location, Purchasing, Extension Attributes, and/or Peripherals in the categories list and enter information as needed.

00	Recon for M	My Company - Remote Computer Inventory
Local Inventory Remote Inventory	Computer 10.1.24.76	Computer
QuickAdd Package Q Network Scanner	Location	
	Purchasing	Computer Name: MyCompany0004
	Extension Attributes	Asset Tag:
		Bar Code 1:
	Peripherals 0 Peripherals	Bar Code 2:
		Username: admin
		Password:
		Verify Password:
		Account: 😁 Ready to submit.
		SSH: 😑 SSH (Remote Login) is running.
+ -		Close Submit

7. Click the **Submit** button.

When Recon is finished acquiring the computer, the computer's JSS ID is displayed at the top of the pane.

Running Recon Locally

Running Recon locally allows you to collect detailed location information for a specific computer, but it requires your time at the workstation.

You can use this method to acquire computers running Mac OS X v10.6 or later.

To acquire a computer by running Recon locally:

1. Copy Recon to the local hard drive.

Note: Recon is a self-contained application and does not require an installer.

2. Open Recon.

If prompted, enter the DNS name or IP address for the JSS.

3. Select Local Inventory in the sidebar.

4. Enter the asset tag in the field provided and/or utilize a barcode scanner to enter a bar code. The computer name appears by default.

00	Recon for	My Company – Local Computer Inventory
Local Inventory Remote Inventory QuickAdd Package	<i>i</i> Computer 10.1.20.117	Ocomputer
Network Scanner	Location	Computer Name: MyCompany0004
	Purchasing Extension Attributes	Asset Tag:
	Peripherals	Bar Code 1: Bar Code 2:
	0 Peripherals	Username:
		Password:
		Verify Password: Account: O No account for remote management.
		SSH: 😁 SSH (Remote Login) is running.
+ -		Submit

5. If you want to manage the computer, enter credentials for the account that you want to use for management.

This can be an existing account or a new account. If it is a new account, Recon creates the account for you. If SSH (Remote Login) is not enabled on the computer, Recon activates it automatically.

(Optional) Select Location in the categories list and enter location information for the computer.
 If an LDAP connection is set up in the JSS, click the Search icon to populate information from the LDAP server.

00	Recon for	My Company - Local Computer	Inventory	
Local Inventory Remote Inventory	Computer 10.1.20.117	Location		
QuickAdd Package QuickAdd Package Network Scanner	Location			0
	Purchasing	Username: Real Name:		
	Extension Attributes	Email Address:		
	Peripherals 1 Peripheral	Phone:		
		Position:		_
		Department:	Choose ‡	- 1
		Building:	Choose ‡	
		Room:		- 1
				_
+ -	-		Subm	it

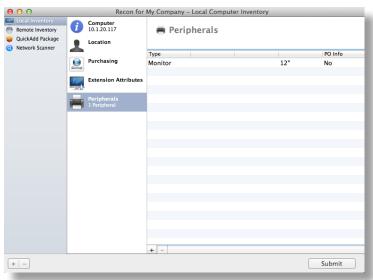
7. (Optional) Select **Purchasing** in the categories list and enter purchasing information for the computer. If a GSX connection is set up in the JSS, click the **Search** icon to populate information from Apple's Global Service Exchange (GSX).

00		Recon for	My Company – Local Computer Inventory	,	
Local Inventory Remote Inventory	į	Computer 10.1.20.117	Purchasing		0
QuickAdd Package Q Network Scanner	1	Location	Purchased	CLeased	
		Purchasing	PO Number:	Leased	
		Extension Attributes	Vendor:		
		Peripherals 1 Peripheral	AppleCare ID:		
	-	1 Peripheral	OS AppleCare ID:		
			Purchase Price:		
			Account:		
			PO Date:	÷ ÷	
			Warranty Exp:	÷ ÷	
			Lease Expires:	÷	
			Maintenance Expires:	•	
			Life Expectancy:	\$	
			Contact:		
+ -				Su	bmit

- 8. (Optional) Select Extension Attributes in the categories list and enter additional information as needed.
- 9. (Optional) Select **Peripherals** in the categories list. Click the **Add (+)** button to enter information for a new peripheral, and then click **OK** when you are done.

	Type:	Monitor	\$	Serial Number		
	Make			Asset Tag		
	Model					
	Size	12*	\$			
8	ar Code 1:			Bar Code 2:		
Sh	ow Purchasi	ing Informatio	on			
					Cancel	OK

10. Click the **Submit** button.



When Recon is finished acquiring the computer, the computer's JSS ID is displayed at the top of the pane.

Using a PreStage

Imaging new computers by using a PreStage adds the computers to your inventory automatically. See the "PreStage Imaging" section for more information.

Using a Configuration

Imaging computers by using a configuration that is associated with an SSH account adds the computers to your inventory automatically. See the "Managing Configurations" section for detailed instructions.

Acquiring a Computer Manually

This allows you to manually enter computer information into the JSS.

To acquire a computer manually:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Click the Add Computer Manually link.
- 4. In the **Computer Name** field, enter the name of the computer.

Computer Name: MAC Address:	
2nd MAC Address:	
One mating System Name	
Operating System Name: Operating System Version:	
Serial Number:	
Make:	
Model:	

5. In the MAC Address and 2nd MAC Address fields, enter one or more MAC addresses.

6. Enter operating system information as needed.

You can enter the operating system name and version.

Computer Name: MAC Address:	
2nd MAC Address:	00.23.10.34.00
Operating System Name:	
Operating System Version:	
Serial Number:	
Make:	
Model:	

- 7. Enter hardware information as needed.You can enter the serial number, make, and model.
- 8. Click the **Save** button.
- 9. Use the Details report pane to enter additional information as needed. (See the "Viewing Computer Details" section for more information.)

Acquiring Windows Computers

There are a few ways to acquire Windows computers as part of your inventory. Each method has advantages depending on the situation.

The primary method for acquiring Windows computers is to create and deploy a QuickAdd package.

There are also two alternative methods:

- Acquire a single computer remotely.
- Acquire a computer manually.

Using a QuickAdd Package

A QuickAdd package is a .mist file that you can install on Windows computers to acquire them. Recon.exe allows you to create QuickAdd packages that you can deploy using a remote desktop tool or give to end users to install.

To create a QuickAdd package:

1. Open Recon.exe.

If prompted, enter the DNS name or IP address for the JSS.

- 2. Authenticate to the JSS and click **OK**.
- 3. Click the **QuickAdd Package** button.
- 4. To change the account that the QuickAdd package uses to authenticate, click the **Change** button. Enter credentials for the account, and then click **OK**.



- 5. If you want to create an inventory schedule, click the **Schedule ongoing inventory updates** link. Configure the schedule and click **Save**.
- 6. Click the **Create** button.
- 7. Save the package to the desired location.
- 8. Deploy the package using a remote desktop tool or give the package to end users to install.

Running Recon Locally

Running Recon locally allows you to collect detailed location information for a specific computer, but it requires your time at the workstation.

To acquire a computer by running Recon locally:

1. Copy Recon.exe to the local hard drive.

Note: Recon.exe is a self-contained application and does not require an installer.

2. Open Recon.exe.

If prompted, enter the DNS name or IP address for the JSS.

3. Enter the asset tag in the field provided and/or utilize a barcode scanner to enter a bar code.

The computer name appears by default.

4 R	lecon f	for J	AMF Soft	ware - Loc	al Computer Invento	ry				_ 🗆 ×
File	e Ed	it	Window	Help						
	-1]								
Qui	الا ickAdd	9√ Pad	kane							
44							0			
	Compu	ter l	nformation	Location	Purchasing Information	Extension Attributes	Peripherals			
			Comp	uter Name	COMPANY-M1ILCQL		Asset Tag			_
				Bar Code 1	1		Bar Code 2			_
					,					
	-									
				Jsemame:		Account:	~			
					·	Account:	0			
				Password:			~			
			Verify	Password:		SSH:	0			
		_								
										Submit
									_	
	_	÷	_	_	_	_	_	_	_	_

4. (Optional) Click the Location tab and enter location information for the computer.

If an LDAP connection is set up in the JSS, click the **Check Name** button to populate information from the LDAP server.

🔍 R	econ	for]	IAMF Soft	ware - Loo	al Computer Invento	ry		
File	e E	dit	Window	Help				
	1	P						
Qui	ick.Add	d Pac	kage					
	Comp	outer l	nformation	Location	Purchasing Information	Extension Attributes	Peripherals	
			u	lsemame			Phone	
			Re	al Name			Department	•
			Email	Address			Building	_
				Position			Room	
								Clear Check Name
								Submit
	-	-	-	-	_	_	_	

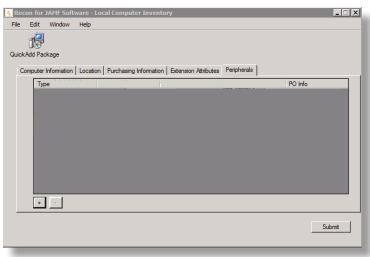
5. (Optional) Click the **Purchasing Information** tab and enter purchasing information for the computer.

nsion Attributes Peripherals
O Leased
PO Date
Warranty Expires
Life Expectancy
Contact:
Submit

- 6. (Optional) Click the Extension Attributes tab and enter additional information as needed.
- 7. (Optional) Click the **Peripherals** tab. Click the **Add** (+) button to enter information for a new peripheral, and then click **OK** when you are done.



8. Click the **Submit** button.



When Recon.exe is finished acquiring the computer, the computer's JSS ID is displayed at the top of the pane.

Acquiring a Computer Manually

This allows you to manually enter computer information into the JSS.

To acquire a computer manually:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Click the Add Computer Manually link.
- 4. In the **Computer Name** field, enter the name of the computer.

Computer Name:	
MAC Address:	
2nd MAC Address:	
Operating System Name:	
Operating System Version:	
Serial Number:	
Make:	
Model:	

- 5. In the MAC Address and 2nd MAC Address fields, enter one or more MAC addresses.
- 6. Enter operating system information as needed.

You can enter the operating system name and version.

Create New Computer Record	
Computer Name:	Company0005
MAC Address:	00:25:4b:ge:a0
2nd MAC Address:	
Operating System Name:	
Operating System Version:	
Serial Number:	
Make:	
Model:	
	(Cancel) (Save)

7. Enter hardware information as needed.

You can enter the serial number, make, and model.

- 8. Click the **Save** button.
- 9. Use the Details report pane to enter additional information as needed. (See the "Viewing Computer Details" section for more information.)

Acquiring Mobile Devices

You can acquire mobile devices by syncing them with the iTunes library on a Mac OS X or Windows computer. This allows Recon to collect information about the device from the iTunes library and send it back to the JAMF Software Server (JSS) each time the computer submits an inventory report.

Recon collects the following information from the iTunes library:

- General information
- Location information
- Purchasing information
- Apps
- App purchasing information (Optional)

To ensure that the JSS reflects updated inventory information for a synced device, make sure the device is synced regularly.

Syncing a device with a computer's iTunes library does not *enroll* the device with the JSS for management. For instruction on enrolling devices, see "Enrolling Mobile Devices with the JSS".

In addition, syncing a managed device with a computer's iTunes library does not update the device's inventory in the JSS. Managed devices submit inventory over-the-air. For more information on collecting inventory from managed devices, see "Inventory Collection Frequency" in the "Configuring the Mobile Device Management Framework" section.

The instructions in this section explain how to acquire synced devices.

To acquire synced mobile devices:

- 1. Log in to the JSS in a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. Click the Inventory Collection Preferences link.
- 5. Click the Mobile Devices tab.
- 6. Select the **Gather mobile devices** checkbox.
- 7. To only collect devices that already exist in the JSS (from previous inventory reports), select the **Only** include mobile devices already in the JSS checkbox.
- 8. To track purchasing information for apps from the App Store, select the **Gather mobile device application purchasing information** checkbox.
- 9. Click Save.

Searching Computers

Once you acquire computers, they can be viewed for inventory or reporting purposes. Since the JAMF Software Server (JSS) is web-based, you can view your inventory from virtually any web browser on any platform.

This section explains how to do the following:

- Perform simple and advanced computer searches
- View computer search results
- View computer details

Performing a Simple Computer Search

A simple computer search functions like a search engine, allowing you to locate a general range of results quickly and easily.

Simple searches can be performed based on the following attributes of a computer:

- Computer Name
- MAC Address
- Bar Code
- IP Address
- Asset Tag
- Serial Number
- User Name

- Real Name
- Email Address
- Phone Number
- Position
- Department
- Building
- Room

Note: Performing an empty search (with no criteria in the search field) returns all computers in your database.

To perform a simple computer search:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.

The **Computers** link above the search field is selected by default.

omputers	Perinherals	Licensing	Applications	Fonts	Plug_ins	Mobile Devices	Mobile Device Apps	
somparens	- cripiterals	Licensing	, applications	- onto		Hobite bettees	mobile beriee rapps	Advanced Search
								Inventory Options

- 3. Type one or more search terms into the search field.
- 4. Click the Search Computers button, or press the Enter key.

Performing an Advanced Computer Search

When used to search for computers and create reports, advanced searches offer a variety of powerful options. The advanced computer search interface consists of three panes: General, Criteria, and Display Fields.

A detailed description of the information on each pane follows:

General Pane

Advanced	Computer Search	
<i>i</i> General	Oriteria Display Fields	1
	Report Name: Save this Report: View As: Standard Web Page	l
	Sort Results By: Then By: The	l
	Cancel Search	

This pane lets you choose a reporting format and save the report so you can access it in the future. If you choose to save a report, you can perform the same search at a later date.

Saved computer searches can be accessed on the Computer Inventory pane. You can edit or delete a saved computer search by clicking the disclosure triangle next to the search and then clicking the **Edit** or **Delete** link.

Criteria Pane

() General	Q Criteria	Display Fields					
	Field	Search Type Criteria	-	+			
		Computer Information		۲			
		Location Information		٠			
	Hardware Information						
Storage Information							
		OS Configuration Information		۲			
		Software Information		۲			
		Purchasing Information		۲			
		Receipts Information		۲			
		Extension Attributes Information		٠			

This pane lets you specify the attributes on which to base your search. These options are broken down into the following categories:

- Computer Information
- Location Information
- Hardware Information
- Storage Information
- OS Configuration Information
- Software Information
- Purchasing Information
- Receipts Information
- Extension Attributes Information (This category is only displayed if extension attributes are configured in your Inventory Collection preferences.)

Display Fields Pane

() enera	Q I Criteria Displ	ay Fields			
	Info Link	🔲 JSS C	omputer ID	Asset Tag	Platform
V	Computer Name	🔲 Bar C	ode	🗹 Last Contact Time	Last Report Date
V	Managed	🗹 jamf	Binary Version	IP Address	
V	Username	🗹 Real I	Name	🗹 Email Address	Department
V	Building	🗌 Room	ı	Phone	Position
	Live LDAP Lookups				
	Make	🗹 Mode	d.	MAC Address	NIC Speed
	Optical Drive	📃 Boot	ROM	Bus Speed	🗹 Serial Number
	Processor Speed	🔲 Numb	per of Processors	Processor Type	Processor Architecture
	Total RAM	🗌 Availa	able RAM Slots	SMC Version	Battery Capacity
	Hard Drive Size		T Status	Boot Drive Full	
1	Operating System	🔲 Servio	ce Pack	Active Directory Status	Master Password Set
	FileVault Status	🗹 swu			
	Purchased/Leased	PO N	umber	PO Date	Uendor
	Warranty Expires	📃 Lease	Expires	AppleCare ID	Purchase Price
	Life Expectancy	Purch	asing Account	Purchasing Contact	
	Active Network Interface	e 📃 Comp	outer Sleep	DNS Servers	IP Geo-Location

This pane lets you specify the attributes displayed in your search results when you view your search in one of the following reporting formats:

- Standard Webpage
- CSV
- Tab
- XML

You can change the default selections by changing your Inventory Display preferences. For more information on changing Inventory Display preferences, see the "Inventory Display Preferences" section.

To perform an advanced computer search:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.

The **Computers** link is selected by default.

3. Click the Advanced Search link.

4. If you want to save your search, enter a name for the report and select Save this Report.

Advanced	Computer Search	
() General	Q E Criteria Display Fields	
	Report Name: My Computer Search Save this Report: 🗹 View As: Standard Web Page Sort Results By:	:
	Then By:Please Choose 🗘 Then By:Please Choose 🛟	
_		Cancel Search

- 5. Using the View As pop-up menu, choose the format in which you want to view the report.
- 6. If you want the results to be sorted, specify how you want them sorted using the **Sort Results By** pop-up menus.
- 7. Click the **Criteria** tab, and narrow your search by clicking the **Add** (+) button next to each search type that corresponds to the information that you want to use.

A list of searchable items is displayed.

- 8. Click the items that you want to use in your search, and further specify the search criteria using the fields provided.
- 9. If you are viewing the report in a supported format, click the Display Fields pane and select the checkbox next to each attribute that you want displayed in your search results.
- 10. Click the **Search** button.

Viewing Computer Search Results

By default, computer search results are displayed as a Standard Webpage report. You can view your search results in a different format by choosing one from the **View Results As** pop-up at the bottom of the results list.

View Results As:	Standard Web Page	Go

The following format options are available by default:

- Standard Webpage
- Computer Details (PDF)
- Computer Details Multipage (PDF)
- Computer Overview (PDF)
- Network Overview (PDF)
- Hardware Change Report (PDF)
- Software Change Report (PDF)

- Application Difference Report (PDF)
- Application Distribution Report (PDF)
- OS Distribution Report (PDF)
- System Security Report (PDF)
- CSV
- Tab
- XML

Computer Details (PDF)

The Computer Details report displays an overview of each search result, one record per page. The Overview section contains information pertaining to physical location, hardware, and storage. The pie chart on the right side shows the percentage of the boot volume that is full. Matches for any licensed software are displayed in the licensed software section.

The rest of the report shows a list of non-suppressed applications. Since each computer record is limited to one page, the number of applications that are not displayed is noted at the bottom of the page.

Details Report Generated for	or My Company	Scarbei
BART		02/25/2007 at 2:27 PM
Overview		
Asset Tag	125883	
Make/Model	Apple 13-inch MacBook	
Serial Number	4H6382HGVMN	
OS	Mac OS X 10.4.8	
Boot Drive	[62% Full]	
Processor Speed	2. GHz x2	
Total RAM:	2 GB	
Optical Drive	MATSHITA DVD-R UJ-857	
Network	00.17.f2.2c.1b.1c [10/100/1000]	
Licensed Software		
Microsoft Office 2004		
Applications		
Acquisition.app	132.7	
AirPort Disk Utility.app	1.0	
AirPort Utility.app	5.0	
Dis Dans 4 In A Dans and		

Computer Details Multipage (PDF)

This report contains the same information as the Computer Details report, but it includes a complete list of applications as well.

Computer Overview (PDF)

The Computer Overview report provides a simple report that details a limited number of attributes. This report displays the following fields for each computer:

- Computer Name
- Operating System
- User Information (including real name, user name, and email address)
- Computer Model
- Computer Serial Number
- Processor Information
- RAM
- Hard Drive Size

Computer Overview Report Generated for My Company						Scorbei				
Computer	OS	User	Model	Serial #	Processor	RAM	HD			
JAMF-196	Mac OS X 10.3.9	Ahmad Jamal (ajamal) - ajamal@jamfsoftware.com	Power Mac G4 (QuickSilver)	XB240014MRN	867 MHz x1	512 MB	38.18 GB			
JAMF-212	Mac OS X 10.4.5	Andre Previn (aprevin) - aprevin@jamfsoftware.com	iMac (Flat Panel)	QT306ZPBN3U	800 MHz x1	512 MB	55.9 GB			
JAMF-258	Mac OS X 10.3.5	Antonio Jobim (ajobim) - ajobim@jamfsoftware.com	iMac (Flat Panel)	W8306ZEBN3U	800 MHz x1	512 MB	55.9 GB			
JAMF-522	Mac OS X 10.4.5	Art Blakey (ablakey) - ablakey@jamfsoftware.com	iMac Intel	QP606123U2S	2. GHz x2	1 GB	233.76 GB			
JAMF-1864	Mac OS X 10.4.3	Art Pepper (apepper) - apepper@jamfsoftware.com	iMac G5	W844634XPNY	1.8 GHz x1	512 MB	74.53 GB			
JAMF-524	Mac OS X 10.3.9	Art Taylor (ataylor) - ataylor@iamfsoftware.com	PowerBook G4 (15-inch 1.5/1.33 GHz)	W84340AFQHY	1.5 GHz x1	512 MB	74.53 GB			
JAMF-254	Mac OS X 10.4.7	Bill Evans (bevans) - bevans@iamfsoftware.com	iMac (Flat Panel)	W8306ZDSN3U	800 MHz x1	512 MB	55.9 GB			
JAMF-526	Mac OS X 10.4.7	Billy Martin (bmartin) - bmartin@iamfsoftware.com	MacBook Pro	W860914AVJ3	2. GHz x2	1 GB	93.16 GB			
JAMF-246	Mac OS X 10.4.5	Billy Strayhorn (bstrayhorn) - bstrayhorn@jamfsoftware.co m	iMac (Flat Panel)	W8306Z98N3U	800 MHz x1	512 MB	55.9 GB			
JAMF-245	Mac OS X 10.3.5	Billy Taylor (btaylor) - btaylor@jamfsoftware.com	Power Mac G4 (QuickSilver)	XB302004MRN	867 MHz x1	512 MB	38.18 GB			
JAMF-240	Mac OS X 10.3.9	Blossom Dearie (bdearie) - bdearie@jamfsoftware.com	17-inch iMac (Flat Panel)	QT2393M3N0S	800 MHz x1	256 MB	74.53 GB			
JAMF-233	Mac OS X 10.2.8	Brad Mehldau (bmehldau) - bmehldau@jamfsoftware.com	iMac (version = 2.1)	W8306ZB3-N3U- ff11	800 MHz x1	512 MB				
JAMF-2182	Mac OS X 10.4.6	Cannonball Adderley (cadderley) - cadderley@jamfsoftware.com	MacBook Pro	W86342A0VWY	2. GHz x2	1 GB	93.16 GB			
JAMF-456	Mac OS X 10.4.6	Carl Allen (callen) - callen@jamfsoftware.com	Mac mini	YM524140RHS	1.42 GHz x1	1 GB	74.53 GB			
JAMF-248	Mac OS X 10.3.4	Cedar Walton (cwalton) - cwalton@jamfsoftware.com	eMac	G8252521N8M	700 MHz x1	512 MB	38.16 GB			
JAMF-344	Mac OS X 10.3.5	Charlie Haden (chaden) - chaden@iamfsoftware.com	iMac (Flat Panel)	W8306ZC4N3U	800 MHz x1	512 MB	55.9 GB			

Network Overview (PDF)

The Network Overview report breaks down your search results into six sections that address the following information:

- Computers per building
- Computers per department
- Total count of each unique operating system
- Total count of each unique computer model

- Total count of each version of /usr/sbin/jamf
- Count of errors that took place in the 12 hours before the report was printed

Network Overview Generated for My Company				Scar	JUITE
Computers per Building		Operating Systems		/usr/sbin/jamf versions	
Hong Kong	11	Mac OS X 10.3.9	10	5.0	56
LA	15	Mac OS X 10.4.2	5		
nia	30	Mac OS X 10.4.3	8		
		Mac OS X 10.4.5	8		
		Mac OS X 10.4.6	2		
		Mac OS X 10.4.7	23		
Computers per Department		Models		Errors in the last 12 hours	
Copy Writers	13	Apple 13-inch MacBook	2		
Finance	21	Apple 17-inch iMac (Flat Panel)	2		
PrePress	22	Apple iBook G3 (Early 2003)	1		
		Apple iMac (Flat Panel)	6		
		Apple iMac G5	2		
		Apple iMac G5 (iSight)	3		
		Apple iMac Intel	5		
		Apple Mac mini	1		
		Apple MacBook Pro	3		
		Apple Power Mac G4 (AGP Graphics)	1		
		Apple Power Mac G4 (MDD)	7		
		Apple Power Mac G4 (QuickSilver)	10		
		Apple Power Mac G5	10		
		Apple Power Macintosh G5 (Late 2005)	2		
		Apple PowerBook G4 (15-inch 1.5/1.33 GHz)	1		

Hardware Change Report (PDF)

The Hardware Change report displays the changes that have taken place to the hardware configurations on your network over time. This information is especially useful when tracking down unauthorized changes.

The following hardware attributes are detailed in this report:

- NIC Speed
- Optical Drive
- Make
- Model
- Serial Number
- Processor Speed
- Number of Processors
- Total RAM
- Open RAM Slots
- Hard Drive Percentage Full

Report Generated for Internal Development Hardware Changes for jamf0012					S.	C	a	5	De	UITE
Report Date	NIC Speed	Optical	Make	Model	Serial #	Speed	Procs	RAM	Open	HD
2007-05-13 11:35:47.0		MATSHITA DVD-R UJ- 857	Apple	13-inch MacBook	4H6382H9VM N	2. GHz	2	1 GB	0	111.79 GB
2007-05-11 16:04:50.0		MATSHITA DVD-R UJ- 857	Apple	13-inch MacBook	4H6382H9VM	2. GHz	2	2 GB	0	111.79 GB

Any changes to the hardware configurations that took place between reports will be highlighted in red. By comparing this data with the report dates in the first column, you will be able to determine the approximate date of the change.

Software Change Report (PDF)

The Software Change report displays the changes that have taken place to the software installed on your computers over time. Anytime an application, font, or plug-in is added or removed from a computer, a record is logged. Changes to the operating system will also be displayed.

ware Change Re	port Generated for Internal Develop	oment	secorper states
ware Changes f			
App Added	7-05-13 16:04:57.0 Microsoft Word	11.3.3	/Applications/Microsoft Office 2004/Microsoft Word
App Added	Microsoft PowerPoint	11.3.2	/Applications/Microsoft Office 2004/Microsoft PowerPoint
App Added	Microsoft Messenger.app	5.1.1	/Applications/Microsoft Office 2004/Microsoft Messenger app
App Added	Microsoft Entourage	11.3.3	/Applications/Microsoft Office 2004/Microsoft Entourage
App Added	Microsoft Excel	11.3.3	/Applications/Microsoft Office 2004/Microsoft Excel
App Removed	QuarkXPress	QuarkXPress version	/Applications/QuarkXPress 6.0/QuarkXPress

Application Difference Report (PDF)

The Application Difference report compares the software that is actually installed on a computer to what the JSS projects should exist on the computer.

To run this report, there are a few prerequisites:

- All of your packages must be indexed (using Casper Admin 5.0 or later).
- Each computer you are generating the report for must contain Autorun data for the configuration and packages that should be installed.

The JSS references Autorun data to generate this report. Once it determines which packages should be installed on a computer, the JSS references the index of packages that are actually installed and generates a record of what the computer should look like.

Each Application Difference report is broken down into four sections that detail the following information:

- Overview of the computer
- A list of any unauthorized applications
- A list of any missing applications
- A list of any mismatched applications (versions are different)

JAMF-IMG	Data fro	om 02/26/2007 at 9:30 PM
Computer Overview		
Make/Model	Apple 13-inch Macl	Book
Serial Number	4H6383FDU9D	
OS	Mac OS X 10.4.8	
4 Unauthorized Applications		
MacBook EFI Firmware Update.app	1.0	
Parallels Transporter.app	2.0 Build 1078	
Parallels Image Tool.app	2.5	
Parallels Desktop.app	2.5	
2 Mis-Matched Applications		
iTunes.app	7.0.2	6.0.4
QuickTime Player.app	7.1.3	7.0.4 Pro

Application Distribution Report (PDF)

The Application Distribution report displays a count of applications on your network, broken down by version.

For example, the data in the following screen shot reflects 19 copies of Adobe Photoshop from Creative Suite 1 and 215 copies of Adobe Photoshop from Creative Suite 2. We can see that only one person has updated to version 9.0.2, with 192 people running version 9.0.1 and 22 people running 9.0.

Application Distribution Report Generated for My Co	mpany	Scorber
Application Name	Copies	Total
Adobe Photoshop CS.app		
8.0 (8.0x119)	19	
	Total Copies:	19
Adobe Photoshop CS2.app		
9.0 (9.0x196)	22	
9.0.1 (9.0.1x294)	192	
9.0.2 (9.0.2x312 [20	1	
	Total Copies:	215
Adobe Reader 6.0.app		
6.0	14	
6.0.2	1	
6.0.3	1	
6.0.4	1	
	Total Copies:	17

Operating System Distribution Report (PDF)

The Operating System Distribution report displays a total count of each unique operating system on your network. It also breaks down the results for each department and building.

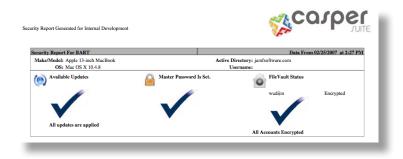
OS Distribution Report Generated for My Company	Scorbei
Operating System Name	Copies
Mac OS 9.1	1
Mac OS 9.2	9
Mac OS X 10.2.4	2
Mac OS X 10.2.6	3
Mac OS X 10.2.8	4
Mac OS X 10.3.2	4
Mac OS X 10.3.3	1
Mac OS X 10.3.4	2
Mac OS X 10.3.5	12
Mac OS X 10.3.6	1
Mac OS X 10.3.7	7
Mac OS X 10.3.8	3
Mac OS X 10.3.9	17
Mac OS X 10.4.2	18
Mac OS X 10.4.3	25
Mac OS X 10.4.4	1
Mac OS X 10.4.5	15
Mac OS X 10.4.6	4
Mac OS X 10.4.7	312
Mac OS X 10.4.8	2
Mac OS X Server 10.3.9	1
Mac OS X Server 10.4.3	1
Mac OS X Server 10.4.7	2
Mac OS X Server 10.4.9	1
Microsoft Windows XP Professional 5.1.2600	63
Total Count	: 511

System Security Report (PDF)

The System Security report displays security-related information for each computer. This report is broken down into four sections that detail the following information:

- Overview of the computer (including Active Directory status)
- List of available software updates
- Existence of a master password on the computer
- FileVault status for each account on the computer

The report for a computer that meets the criteria in each section will display blue checkmarks beneath the sections:



The report for a computer that does not meet the criteria will display the items that do not meet the criteria in the relevant section:

rity Report Generated for Internal Development			C	arbei
Security Report For jamf0012			Data From	03/30/2007 at 10:39 AM
Make/Model: Apple 13-inch MacBook		Active Directo	ry: Not Bound	
OS: Mac OS X Server 10.4.9		Usernar	ne:	
(Available Updates	Master Password	Is Not Set	FileVault Status	
AirPortExtremeUpdate2007002-1.0			admin	Not Encrypted
WebObjects5.3.3Update-5.3.3			casperadmin	Not Encrypted
QuickTime-7.1.6			casperinstall	Not Encrypted
SecUpd2007-004Univ-1.1			demo	Not Encrypted
BatteryUpdate2007001-1.2				
JavaForMacOSX10.4Release5-5.0				
RAIDAdmin151-1.5.1				
WWANSupport_Update1-1.0				

CSV

This view exports your search results into a Comma Separated Values (CSV) text file that can be opened in Microsoft Excel and other spreadsheet applications.

If you are exporting this document from a simple computer search, the attributes displayed in the file are determined by your Inventory Display preferences. If you are exporting from an advanced computer search, the attributes are determined by the settings on the Display Fields pane.

Tab

This view exports your search results into a tab delimited text file that can be opened in Microsoft Excel and other spreadsheet applications.

If you are exporting this document from a simple computer search, the attributes displayed in the file are determined by your Inventory Display preferences. If you are exporting from an advanced computer search, the attributes are determined by the settings on the Display Fields pane.

XML

This view exports your search results into an XML (Extensible Markup Language) file. XML is commonly used to move data between applications.

If you are exporting this document from a simple computer search, the attributes displayed in the file are determined by your Inventory Display preferences. If you are exporting from an advanced computer search, the attributes are determined by the settings on the Display Fields pane.

Viewing Computer Details

After performing a computer search, you can view a Details report for any search result by clicking the **Details** link across from it.

Details reports are broken down by category. Clicking a category in the sidebar displays related information in the category pane. Some panes allow you to perform actions, such as editing information, viewing history, and adding components.

Detai	ils for PHYS-SCH-213		
0		Computer Information	
TP	Hardware MacBook Pro	Computer Name: PHYS-SCH-213	
	Macbook Pro	Report Date: 02/22/2011 at 2:41 PM	
.4.	Operating System Mac OS X 10.5.7	Last Contact Time: N/A	
4	Mac OS X 10.5.7	IP Address: 10.10.12.120	
	Location	/usr/sbin/jamf version: 7.3	
-		Managed: admin	
	Provedo a la se	JSS Computer ID: 38	
9	Purchasing	Asset Tag:	
		Bar Code 1:	
72	Extension Attributes	Bar Code 2:	
	Storage 1 Hard Drive	U	
×	Peripherals 0 Peripherals		
	o Peripherais		
	Synced Mobile Devices 0 Mobile Devices	•	
	Computer Groups		
1	2 Computer Groups		
	Licensed Software 0 Licensed Software Titles		
A	Applications		
A	153 Applications		

The following table describes each category pane and the actions that you can perform from it:

Category	Description	Actions that you can perform
Computer Information	General information about the computer, including computer name, IP address, asset tag, management account, and date/time of last inventory report	Edit computer information Run a remote command (remote lock, remote unmanage, and remote wipe)
Hardware	Hardware information, including make, model, and Mac address(es)	Edit hardware information View hardware/software history

Category	Description	Actions that you can perform	
Operating System	Information about the operating system, including system and version number		
Location	Information about the computer's physical	Edit location information	
	location on the network	Perform LDAP lookup	
		View location history	
Purchasing	Purchasing information for the computer,	Edit purchasing information	
	including PO details, warranty information, and purchasing contact	Perform GSX lookup	
Extension Attributes	Extension attributes collected from the computer	Edit values for non-script extension attributes	
Storage	Storage information for each hard drive		
Peripherals	A list of peripherals associated with the	Add peripheral	
	computer	Delete peripheral	
		View peripheral details	
Synced Mobile Devices	Information about mobile devices synced with the computer	View mobile device details	
Computer Groups	A list of groups that the computer is a member of		
Licensed Software	A list of licensed software titles installed on the computer		
Applications	A list of applications installed on the computer	View application details	
UNIX Applications	A list of UNIX applications installed on the computer	View UNIX application details	
Fonts	A list of fonts installed on the computer		
Plug-ins	A list of plug-ins installed on the computer		
Management History	A list of management commands run on	Update management history	
	the computer	Cancel a remote command that is pending	
Package Receipts	A list of packages installed or cached by the Casper Suite		
	A list of packages installed by Installer.app or Software Update		
Software Updates	A list of available software updates		
Local User Accounts	A list of local user accounts and information about them, including user name, real name, UID, and Home directory		
Printers	A list of printers mapped to the computer		
Services	A list of active services		

Category	Description	Actions that you can perform
UNIX Reports	Results for the following UNIX commands run by Recon:	
	uptime - Length of time since last reboot	
	w - List of user that are logged in	
	top - Snapshot of processes that are running	
Attachments	A list of files attached to the inventory record	Upload attachments

Note: For instructions on how to suppress applications, fonts, plug-ins, UNIX executables, or accounts from inventory reports, see the "Suppressing Software from Reports" section.

Searching Peripherals

Once peripherals are added to the JAMF Software Server (JSS), they can be viewed for inventory or reporting purposes.

This section explains how to do the following:

- Perform simple and advanced peripheral searches
- View peripheral search results
- View peripheral details

Performing a Simple Peripheral Search

A simple peripheral search functions like a search engine, allowing you to locate a general range of results quickly and easily.

Simple searches can be performed based on the following attributes of a peripheral:

- Peripheral Type
- Customizable Peripheral Fields
- Bar Code(s)
- User Name
- Real Name
- Email Address
- Phone Number

- Position
- Department
- Building
- Room
- Computer Name (of the computer the peripheral is attached to)

Note: Performing an empty search (with no criteria in the search field) returns all of the peripherals in your database.

To perform a simple peripheral search:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Click the **Peripherals** link.



- 4. Type one or more search terms into the search field.
- 5. Click the Search Peripherals button, or press the Enter key.

Performing an Advanced Peripheral Search

When used to search for peripherals and create reports, advanced searches offer a variety of powerful options. The advanced peripheral search interface consists of three navigation panes: General, Criteria, and Display Fields.

A detailed description of the information on each pane follows:

General Pane

Advanced I	Peripheral Search
() General	Oriteria Display Fields
	Report Name: Save this Report: View As: Standard Web Page
-	(Cancel) (Search)

This pane lets you choose a reporting format and save the report so you can access it in the future. If you choose to save a report, you can perform the same search at a later date.

Saved peripheral searches can be accessed on the Peripheral Inventory pane. You can edit or delete a saved peripheral search by clicking the disclosure triangle next to the search and then clicking the **Edit** or **Delete** link.

Criteria Pane

() eneral	Q Criteria	Display Fields			
	Field	Search Type	Criteria	-	+
		Peripheral In	fo		\oplus
		Location Info)		\oplus
		Peripheral Purchas	ng Info		•

This pane lets you specify the attributes on which to base your search. These options are broken down into the following categories:

- Peripheral Info
- Location Info
- Purchasing Info

Display Fields Pane

Criteria	Disalary Fields		
	Display Fields		
rname	📃 Real Name	📃 Email Address	Department
ding	Room	Phone	Position
LDAP Lookups	5		
chased/Leased	📄 PO Number	PO Date	Uendor
ranty Expires	Lease Expires	AppleCare ID	📃 Purchase Price
Expectancy	Purchasing Account	📃 Purchasing Contact	
	chased/Leased rranty Expires	ding Room LDAP Lookups chased/Leased PO Number rranty Expires Lease Expires	ding Room Phone LDAP Lookups chased/Leased PO Number PO Date rranty Expires Lease Expires AppleCare ID

This pane lets you specify the attributes displayed in your search results.

You can change the default selections by changing your Inventory Display preferences. For more information on changing Inventory Display preferences, see the "Inventory Display Preferences" section.

To perform an advanced peripheral search:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Click the **Peripherals** link.
- 4. Click the **Advanced Search** link.
- 5. If you want to save your search, enter a name for the report and select the **Save this Report** checkbox.

0	0		
General	Criteria	Display Fields	
	Report N	ame: My Peripheral Search	
	Save this Re	port: 🗹	
	Vie	v As: Standard Web Page	\$
			Cancel Search

- 6. Using the View As pop-up menu, choose the format in which you want to view the report.
- Click the Criteria tab, and narrow your search by clicking the Add (+) button next to each search type that corresponds to the information that you want to use.
 A list of searchable items is displayed.
- 8. Click the items that you want to use in your search, and further specify the search criteria using the fields provided.

- 9. Click the **Display Fields** tab and select the checkbox next to each attribute that you want displayed in your search results.
- 10. Click the **Search** button.

Viewing Peripheral Search Results

If you performed an advanced peripheral search, you can view your search results in the following formats:

- Standard Webpage
- CSV
- Tab
- XML

Standard Webpage

The Standard Webpage report displays search results by peripheral type. As you scroll down the page, a list of peripherals is displayed.

CSV

This view exports your search results into a Comma Separated Values (CSV) text file that can be opened in Microsoft Excel and other spreadsheet applications.

Tab

This view exports your search results into a tab delimited text file that can be opened in Microsoft Excel and other spreadsheet applications.

XML

This view exports your search results into an XML (Extensible Markup Language) file. XML is commonly used to move data between applications.

Viewing Peripheral Details

After performing a peripheral search, you can view details for any peripheral returned in the search by clicking the **Details** link across from it.

1 Result (0.00 seconds)								
onitor –	1 Match							
onitor - : Make	1 Match Model	Size	Asset Tag	Serial Number		Computer		

Peripheral reports are broken down into four sections:

- Device Information
- Location
- Purchasing
- Attachments

talls for Monitor					
<i>i</i> Device Inform	General Information				
Location admin	Make: Acer Model:				
Purchasing	Size: 12" Asset Tag:				
Attachments 0 Attachments	Serial Number: 1234 5678				

Searching Software Inventory

Once you acquire computers, you can search and view installed applications, fonts, and plug-ins.

This section explains how to do the following:

- Perform simple and advanced software searches
- View software search results

Performing a Simple Software Search

A simple software search functions like a search engine, allowing you to locate a general range of results quickly and easily.

Simple searches can be performed based on the following attributes of a software record:

- Application Title
- Application Version

Note: Performing an empty search (with no criteria in the search field) does not return any results. Search criteria are required to search for software.

To perform a simple software search:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Click the Applications, Fonts, or Plug-ins link.

Computers Peripherals Licensing Applications Fonts Plug-ins Mobile Devices Mobile Device Apps Advanced Search Inventory Options	٩p	lication Inve	ntory							
Advanced Search Inventory Options										
Inventory Options		Computers	Peripherals	Licensing	Applications	Fonts	Plug-ins	Mobile Devices	Mobile Device Apps	
					Search	Applica	tions			

- 4. Type one or more search terms into the search field.
- 5. Click the **Search** button, or press the Enter key.

Performing an Advanced Software Search

Advanced software searches offer you a variety of powerful options. The advanced software search interface consists of three navigation panes: General, Criteria, and Display Fields.

A detailed description of the information on each pane follows:

General Pane

Advanced /	Application Sea	ırch	
0	0	4	
General	Criteria	Display Fields	
	Report N Save this Re Vier		Þ
			Cancel Search
_	_		

This pane lets you choose a reporting format and save the report so you can access it in the future. If you choose to save a report, you can perform the same search at a later date.

Saved software searches can be accessed on the Computer Inventory pane. You can edit or delete a saved software search by clicking the disclosure triangle next to the search and then clicking the **Edit** or **Delete** link.

Criteria Pane

Advanced	Application	Search	
() General	Q Criteria	A Display Fields	
		Platform pplication Name plication Version	
_			(Cancel) (Search)

This pane lets you specify the attributes on which to base your search. These options are broken down into the following categories:

- Platform
- Application Title
- Application Version

Display Fields Pane

i) neral	Q Criteria	Display I						
	pplication Path		Size			Copyright		Date Modified
B	undle ID		Permis	sions		Registered To		Company
S	erial Number 1		Serial 1	lumber 2				
🗹 li	nfo Link		JSS Cor	mputer ID		Asset Tag		Platform
🗹 (Computer Name		Bar Co	de		Last Contact Time		Last Report Date
N	lanaged		jamf Bi	nary Version		IP Address		
	Isername		Real Na	ame		Email Address		Department
B	uilding		Room			Phone		Position
	ive LDAP Lookuj	os						
	lake		Model			MAC Address		NIC Speed
-	ptical Drive	_	Boot R		_	Serial Number	_	Processor Speed
_	lumber of Proce	_		sor Type	_	Processor Architecture		Total RAM
A []	wailable RAM Slo	ots 🗌	SMC V	ersion		Battery Capacity		
H	lard Drive Size		SMART	Status		Boot Drive Full		
₫ с	perating System	n 🗆	Service	Pack		Active Directory Status		Master Password Set
F	ileVault Status		Numbe	r of Available Update	S			
P	urchased/Lease	d 🗆	PO Nur	nber		PO Date		Vendor
U	Varranty Expires		Lease I	Expires		AppleCare ID		OS AppleCare ID
_	S Maintenance I urchasing Conta		Purcha	se Price		Life Expectancy		Purchasing Account
	urchasing Conta	ici						

This pane lets you specify the attributes displayed in your search results when you view your search in one of the following reporting formats:

- Standard Webpage
- CSV
- Tab
- XML

You can change the default selections by changing your Inventory Display preferences. For more information on changing Inventory Display preferences, see the "Inventory Display Preferences" section.

To perform an advanced software search:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Click the **Applications**, **Fonts**, or **Plug-ins** link.
- 4. Click the **Advanced Search** link.
- 5. If you want to save your search, enter a name for the report and select the **Save this Report** checkbox.

6. Using the **View As** pop-up menu, choose the format in which you want to view the report.

0	Q	A	
General	Criteria Disp	lay Fields	
	Penert Name	My Application Search	
	Save this Report:		
		Standard Web Page	\$

7. Click the **Criteria** tab, and narrow your search by clicking the **Add** (+) button next to each search type that corresponds to the information that you want to use.

A list of searchable items is displayed.

- 8. Select each item that you want to use in your search, and further specify the search criteria using the fields provided.
- 9. Click the **Display Fields** tab, and select the checkbox next to each attribute that you want displayed in your search results.
- 10. Click the **Search** button.

Viewing Software Search Results

If you performed an advanced software search, you can view your search results in the following formats:

- Standard Webpage
- CSV
- Tab
- XML

Standard Webpage

Information about the software is displayed in this view. As you scroll down the page, a list of computers with software installed is displayed.

CSV

This view exports your search results into a Comma Separated Values (CSV) text file that can be opened in Microsoft Excel and other spreadsheet applications.

Tab

This view exports your search results into a tab delimited text file that can be opened in Microsoft Excel and other spreadsheet applications.

XML

This view exports your search results into an XML (Extensible Markup Language) file. XML is commonly used to move data between applications.

Performing Mass Actions on Computer Search Results

Mass actions are a quick way to perform the following tasks on the results of a computer search:

- Edit management accounts
- Edit the building, department, or servers
- Edit and delete Autorun data
- Look up and populate purchasing information from Apple's Global Service Exchange (GSX)
- Email users
- Delete from the JAMF Software Server (JSS)

Mass Editing Management Accounts

This allows you to change management account information for all results of a computer search. This is useful when the management account is from a directory service and the account has been changed.

To mass edit management accounts:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced computer search.
- 4. Choose "Edit Management Accounts" from the Take Action on Results pop-up menu. Then, click Go.
- 5. Enter the user name and password for the current management account.

Edit Management Accounts	
<i>Note:</i> Use caution when using this feature. It does not change the username or password on the computers. It is most useful when you have a network account as your management account.	
Current Username:	- 1
Current Password:	
New Username:	- 1
New Password:	- 1
Verify New Password:	- 1
	_
Cancel	Save
Cancel	Save

- 6. Enter the user name and password for the new management account. Then, type the password again to verify it.
- 7. Click the Save button.

8. Click **Continue** to confirm the change.

Mass Editing Building, Department, or Servers

This allows you to edit location information and change the primary distribution point, NetBoot Server, and Software Update server for all results of a computer search.

To mass edit the building, department, or servers:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced computer search.
- 4. Choose "Edit Building, Department, or Servers" from the **Take Action on Results** pop-up menu. Then, click **Go.**
- 5. Use the pop-up menus to specify new location and server information as needed.

	Default File Server:	No Change	\$
Def	ault NetBoot Server:	No Change	
Default Soft	ware Update Server:	No Change	\$
I	Default Department:	No Change 🛟	
	Default Building:	No Change 🛟	

- 6. Click the **Save** button.
- 7. Click **Continue** to confirm the change.

Mass Editing and Mass Deleting Autorun Data

This allows you to edit or delete Autorun data for all results of a computer search.

To mass edit or mass delete Autorun data:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced computer search.
- 4. Choose "Edit Autorun Data" from the **Take Action on Results** pop-up menu. Then, click **Go**. The Edit Autorun Data pane is displayed at its default settings.

5. If you want to edit the Autorun data, configure new settings as needed and click the **Apply Changes** button.

Target Drive:	
Erase Target Drive	
Configuration: (
Reboot To Target I Local Username:	Drive when Done
Local Password:	
AMF Software Server Optic	ons
Store on JSS	Cache Packages
Run Automatically	📃 Ignore Delay
Distribution Point: phineas	s.jamfsw.corp (afp://phineas.jamfsw.corp/CasperShare) 🛟

If you want to delete the Autorun data, click the **Delete Autorun Data for these Computers** button and click **OK** when prompted.

6. Click **Continue** to confirm the changes.

Mass Look up Purchasing Information from GSX

This allows you to look up and populate purchasing information from Apple's Global Service Exchange (GSX).

To utilize this feature, a GSX connection must be set up in the JSS. For more information on setting up this connection, see the section entitled "Integrating with GSX."

Note: GSX lookups may not always return complete purchasing information. The lookup only returns information available in GSX.

To perform a mass GSX lookup:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced computer search.

4. Choose "Look up Purchasing Info in GSX" from the **Take Action on Results** pop-up menu. Then, click **Go**. The progress of the lookup is displayed onscreen.



5. When the results are displayed, click the **Update Records** button to populate the information in the JSS. Then, click **Continue** to confirm.

If the results state that the JSS is already up-to-date, click the **Cancel** button.

Mass Emailing Users

Mass emails are a convenient way to notify users of an upcoming software upgrade, a full hard drive, or another issue.

Mass emails are sent from the SMTP server that is specified in the JSS. If you have not specified an SMTP server, see the section entitled "Enabling Email Notifications" for instructions on how to do so.

To mass email users:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced computer search.
- 4. Choose "Send Email" from the Take Action on Results pop-up menu. Then, click Go.

5. Use the options and fields provided to compose the email message.

The email address you send the message from must be associated with the SMTP server in the JSS. Replies are also sent to this address unless you specify otherwise.

oscar.peterson@mycompany.com, operations@mycompany.com, development@mycompany.com	
To Field DEC Field	
SMTPaccount@gmail.c	
A	
Cancel	Send
	© BCC Field SMTPaccount@gmail.c

- 6. Click the **Send** button.
- 7. Click **Continue** to confirm.

Mass Deleting Computers

You can remove computers from your inventory by deleting them from the JSS.

To mass delete computers from the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced computer search.
- 4. Choose "Delete Computers" from the Take Action on Results pop-up menu. Then, click Go.
- 5. Click the **Delete Permanently** button; or if peripherals are associated with one or more of the computers, click the **Delete Computers Only** or **Delete Computers and Peripherals** button.
- 6. Click **Continue** to confirm the deletion.

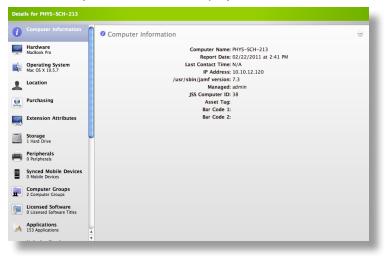
Editing a Computer Record

You can use the JAMF Software Server (JSS) to edit the following information:

- General information, including the management account
- Mac address(es)
- Location information
- Purchasing information
- Non-script extension attributes

To edit a computer record:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced computer search.
- 4. Click **Details** across from the computer record you want to edit.
- 5. Click the category you want to edit in the categories list. The following categories contain editable information:
 - Computer Information
 - Hardware
 - Location
 - Purchasing
 - Extension Attributes
- 6. Click the Ellipsis 🖤 button to display the editable fields.



7. Add or modify information as needed.

If you are editing location or purchasing information, click the **Search** e icon to perform an LDAP or GSX lookup. This populates the fields with information from an LDAP server or Apple's Global Service Exchange (GSX).

Note: The lookup feature is only available if an LDAP server and/or GSX connection is set up in the JSS. For more information on setting up these connections, see the "Integrating with LDAP Servers" and "Integrating with GSX" sections.

etai	ils for PHYS-SCH-213	
ð	Computer Information	Ledit Location
TP X	Hardware MacBook Pro	Username: O_Peterson
4	Operating System Mac OS X 10.5.7	Real Name: Oscar Peterson Email Address: oscarpeterson@mycompan
2	Location	Phone:
<u>)</u>	Purchasing	Position: Department: Choose
	Extension Attributes	Building: Choose : Room:
1	Storage 1 Hard Drive	(Cancel) (Save)
-	Peripherals 0 Peripherals	
	Synced Mobile Devices 0 Mobile Devices	
	Computer Groups 2 Computer Groups	
	Licensed Software 0 Licensed Software Titles	
A	Applications 153 Applications	Y SALAN S

8. Click Save.

Deleting a Computer from the JSS

You can remove a computer from your inventory by deleting it from the JAMF Software Server (JSS).

To delete a computer from the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced computer search.
- 4. Click **Delete** across from the computer record.
- 5. Click the **Delete Permanently** button; or if peripherals are associated with the computer, click the **Delete Computers Only** or **Delete Computers and Peripherals** button.

Creating Computer Groups

Computer groups offer an easy way to identify and manage clients that share common attributes or meet custom criteria. You can use these groups to assign computers to a policy's scope and track clients for reporting purposes.

The JAMF Software Server (JSS) allows you to create two kinds of computer groups: *smart computer groups* and *static computer groups*. Smart computer groups are based on inventory attributes and have dynamic group membership. This means that group membership changes automatically anytime a change in criteria or client inventory occurs. Conversely, static computer groups are hardcoded and have fixed memberships that can only be changed by an administrator.

Only managed computers can be members of a computer group.

The instructions in this section explain how to create two kinds of computer groups:

- Smart computer group
- Static computer group

To create a smart computer group:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the Smart Computer Groups link.
- 4. Click the **Create Smart Group** button in the toolbar.
- 5. Enter a name for the group in the **Computer Group Name** field.

ComputerGroup Name:	
Send Email Notification on Change: 🗌	
Field Search Type Criteria	- +
Computer Information	۲
Location Information	\oplus
Hardware Information	۲
Storage Information	۲
OS Configuration Information	۲
Software Information	۲
Purchasing Information	۲
Receipts Information	•

6. To send an email notification to administrators when membership changes occur, select the **Send Email Notification on Change** option.

Email notifications are sent to administrators that have smart computer group email privileges configured on their accounts in the JSS.

Note: An SMTP server must be set up in the JSS to send email notifications. For information on how to set up an SMTP server, see the "Enabling Email Notifications" section of this guide.

- 7. Click the Add (+) button next to the category on which you want to base the group.
- 8. Click the item on which you want to base the group.

Search Items	
Make	
Model	
MAC Address	
NIC Speed	
Optical Drive	
Boot ROM	
Serial Number	
Processor Speed	
Number of Processors	
Processor Type	
Processor Architecture	
Total RAM	
Available RAM Slots	
SMC Version	
Battery Capacity	

9. Specify group criteria by choosing a value from the **Search Type** pop-up menu and entering criteria in the text field.

Send Email	ComputerGrou Notification on	p Name: Laptops Change: 📃		
Field	Search Type	Criteria	-	+
	Computer In	nformation		\oplus
	Location In	formation		\oplus
	Hardware	Information		
Model	is 🗘			۲
	Storage Inf	ormation		\oplus
	OS Configuratio	n Information		\oplus
	Software In	formation		۲
	Purchasing I	nformation		۲
	Receipts In	formation		۲

- 10. Repeat steps 7 through 9 as needed.
- 11. Click the **Save** button.

To create a static computer group:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Static Computer Groups** link.
- 4. Click the **Create Static Group** button in the toolbar.
- 5. Enter a name for the group in the **Computer Group Name** field.

Computer G	roup Na	me		
Computer Name	User	Department	Building	
MyCompany0001				
MyCompany0002				
MyCompany0003				
MyCompany0004				
MyCompany0005				
MyCompany0005				

6. Select the checkbox next to each computer you want to include, and then click the **Save** button.

Suppressing Software from Reports

Inventory reports may include a large number of insignificant software titles. You can suppress one or more software titles from the following categories:

- Applications
- Fonts
- Plug-ins
- UNIX Executables
- Accounts

The instructions in this section explain how to do the following:

- Suppress software
- Unsuppress software

To suppress software from reports:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. In the **Suppress Inventory Items** category, click the link that indicates the item(s) you want to suppress.
- 5. Select the checkbox next to each title you want to suppress, or click the Select All link to suppress all of the titles.

Suppress Applications from Reporting			
	Select All		
	Application Name		
	Activity Monitor.app		
	Address Book.app		
	AirPort Admin Utility.app		
	AirPort Setup Assistant.app		
	AirPort Utility.app		

6. Click the button labeled **Suppress Selected** at the bottom of the page.

To unsuppress software from reports:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Inventory Options link.
- 4. In the **Unsuppress Inventory Items** category, click the link that indicates the item(s) you want to suppress.
- 5. Select the checkbox next to each title you want to unsuppress, or click the **Select All** link to suppress all of the titles.
- 6. Click the button labeled **Unsuppress Selected** at the bottom of the page.

Viewing Receipts

The JAMF Software Server (JSS) generates a receipt when changes are made to the following items in a computer's inventory record:

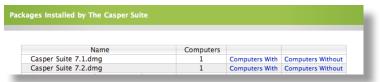
- Packages installed by the Casper Suite
- Packages installed by Installer.app or Apple's Software Update
- Packages the Casper Suite has cached and is waiting to install
- Updates available through Software Update
- Local user accounts that reside in NetInfo on client computers
- Services running on client computers

In order for the JSS to collect these receipts, the appropriate receipt type must be enabled. This can be done on the Settings pane in the JSS using the **Inventory Options** link.

You can also create smart computer groups based on client computers that do or do not have certain receipts.

To view receipts:

- 1. Log in to the JSS with a web browser.
- 2. Click the Logs tab.
- 3. Click the link for the type of receipt that you want to view. This displays a list of the receipts on your network.



4. Click the **Computers With** link to display a list of computers that have the receipt.

Note: When viewing receipts for Software Updates, you can click the **Computers With** link to see a list of client computers that have the update available.

5. Click the **Computers Without** link to see a list of client computers that do not have the receipt.

Managing Custom Reports

You can add custom reports to the JSS to extend your inventory reporting capabilities.

These reports are available when using the Inventory pane in the JAMF Software Server (JSS) to search or browse computers. A link for each custom report is displayed near the bottom of the page under the Export Options heading.

The Casper Suite comes with several templates that you can use to create custom reports. These templates are simple JavaServer Pages files (JSP) with the .jsp file extension. They are located in:

/Library/JSS/Tomcat/webapps/ROOT/WEB-INF/reporting/

Note: If you upgraded from Casper Suite 8.1 or earlier, the custom report templates are located in:

/Library/Tomcat/webapps/ROOT/WEB-INF/reporting/

Before modifying these templates, be sure to read and respect the comments in the files.

The instructions in this section explain how to create, edit, and delete custom reports.

To create a custom report:

 Create a JSP file (using one of the templates or otherwise).
 Ensure that the file has a.jsp file extension and place it in the following location on the server: /Library/JSS/Tomcat/webapps/R00T/WEB-INF/reporting/

Note: If you upgraded from Casper Suite 8.1 or earlier, place the file in this location:

/Library/Tomcat/webapps/ROOT/WEB-INF/reporting/

 Place any image files for the report (.gif, .jpg, etc.) in the follow location: /Library/JSS/Tomcat/webapps/ROOT/reporting_images/

Note: If you upgraded from Casper Suite 8.1 or earlier, place the image files in this location:

/Library/Tomcat/webapps/ROOT/reporting_images/

 Place any CSS (Cascading Style Sheet) files for the report in the following location: /Library/JSS/Tomcat/webapps/R00T/reporting_theme/

Note: If you upgraded from Casper Suite 8.1 or earlier, place the CSS files in this location:

/Library/Tomcat/webapps/ROOT/reporting_theme/

4. Log in to the JSS with a web browser.

- 5. Click the **Settings** tab.
- 6. Click the **Inventory Options** link.
- 7. Click the **Custom Reports** link.
- 8. Click Add Custom Report in the toolbar.

	Custom Reports	
Add Custom Report		
	There are currently no Custom Reports entered.	

- 9. Enter a display name for the report. For example, "My Report".
- 10. In the **Page Name** field, enter a name for the page that will display in your web browser each time you create a report.

This name does not need to match the name of the JSP file. For example, the page name can be "myReport.html".

Note: This name cannot contain spaces.

11. Enter the name of the JSP in the File Name field.

This must match the name of the JSP file exactly. For example, if the name of the JSP file you added is "myReport.jsp", you must enter "myReport.jsp".

New Custom Report	
Display Name:	
Page Name:	myReport.html
File Name:	mykeporcjsp
	This is the name of the actual jsp file that will be run. It needs to be located at /Library/Tomcat/webapps/jamf/WEB-INF/reporting/ Include Software and Peripheral Information
	(Cancel) (Save)

12. Select the **Include Software and Peripheral Information** checkbox to include software and peripheral information in the report.

Note: Selecting this option may delay the reporting process since it contains more information.

13. Click the **Save** button.

To edit a custom report:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.

- 3. Click the **Inventory Options** link.
- 4. Click the **Custom Reports** link.
- 5. Click the Edit Report link across from the report you want to edit.
- 6. Make changes as needed.
- 7. Click the **Save** button.

To delete a custom report:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Inventory Options** link.
- 4. Click the **Custom Reports** link.
- 5. Click the **Delete Report** link.
- 6. Click **Delete Custom Report** to confirm.

Imaging

Overview of the Imaging Process

This section provides information about each component of the imaging process.

Configurations

Configurations are sets of packages, scripts, printers, and directory bindings that make up an image. Configurations allow you to quickly specify what needs to be installed on a computer and make updates without rebuilding an entire image.

Smart Configurations

Smart configurations give you the ability to create similar configurations quickly by creating configurations that inherit the components of other configurations. You can then assign additional packages, scripts, printers, and directory bindings as needed.

Compiled Configurations

Compiled configurations speed up the imaging process by building a single disk image that includes each component in a configuration.

Partitioning

In addition to packages, scripts, printers, and directory bindings, configurations can contain partitioning information.

Secondary partitions can be dynamically sized based on the target drive and can receive the following payloads:

- A configuration
- A Restore partition (Casper Imaging automatically converts an OS package to a Restore partition.)
- A Winclone image
- Nothing

As a safety mechanism, drives that contain multiple pre-configured partitions are not repartitioned; however, secondary partitions can be set up to re-image the partition if it already exists.

Restore Partitions

Restore partitions are hidden partitions that allow you to re-image a computer using less network overhead. These partitions function as an alternative to NetBoot or USB/FireWire drives.

In lab environments, Restore partitions allow for fully automated re-imaging of computers. They can also cache packages and scripts locally to reduce the stress on your distribution points.

Managing Configurations

The information in this section explains how to do the following:

- Create configurations
- Create smart configurations
- Compile configurations
- Delete configurations

Creating Configurations

The instructions in this section explain how to use Casper Admin or the JAMF Software Server (JSS) to do the following:

- Create a configuration
- Set up partitioning

To create a configuration using Casper Admin:

- 1. Open Casper Admin.
- 2. Click the New Config button in the toolbar.
- 3. Enter a name for the configuration.

00	Edit Configuration
Gener	al Management Homepage Additional Partitions
Configuration	Name:
Descr	ption:
	Standard Configuration Smart Configuration
Parent Configu	· · · ·
	Cancel OK
_	

- 4. (Optional) Enter a description of the configuration.
- 5. If you want to manage the computers imaged with this configuration:
 - a. Click the **Management** tab and select the checkbox labeled **Ensure that Computers imaged with this** configuration are managed.
 - b. Enter credentials for an administrator account that has SSH access to the computers, and then type the password again to verify it.
 - c. If this is a new account, select the checkbox labeled **Create this account if it does not exist** and the account will be created for you.
 - d. If the account is a new account, you can configure two additional options:
 - You can hide the account by selecting the checkbox labeled **Hide this account from the Mac OS X login window.**

• You can make this the only account that has SSH access to the computers by selecting the checkbox labeled **Configure SSH (Remote Login) to only allow access for this user**.

000	Edit Configuration
General	Management Homepage Additional Partitions
Ensure co	mputers imaged with this configuration are managed
	Username: newadmin
	Password: ••••••
	Verify Password: ••••••
Create this	s account if it does not exist
🗌 Hide	e this account from the Mac OS X login window
Con	figure SSH (Remote Login) to only allow access for this user
	Cancel OK
-	

- 6. To set a default homepage for the clients:
 - a. Click the **Homepage** tab.
 - b. Enter the web address for the homepage.
 - c. Click OK.

000	Edit Configuration
	General Management Homepage Additional Partitions
	Set Homepage to: www.mycompany.com
	Cancel
100	

7. To add packages, scripts, printers, and directory bindings, drag them from the list in the main pane to the configuration in the sidebar.

To create a configuration using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Casper Admin link.
- 4. Click the **New Config** button in the toolbar.
- 5. Enter a name for the configuration.

6. (Optional) Enter a description of the configuration.

i General	guration: My C	Management	Sector Action of the sector of	Additional Partitions	
	-	n Name: My Config	guration		
			ation O Sma	rt Configuration	
	۲	Standard Configur	ation () Smai	rt Configuration	

7. Click the **Contents** tab and use the **Packages**, **Scripts**, **Printers**, **and Directory Bindings** tabs to locate the items you want to add to the configuration.

1 1 9 -General Contents Management Homepage Additional Partitions 💗 Packages Scripts Printers Directory Bindings Package Category Member Clean OS X Installation Adobe Installers CS4 Web Standard Install Adobe Installers Firefox Software iLife2009 Software iWork09 Adobe Installers WindowsVista.winclone Partitions Cancel Save Delete this Configuration...

To add an item, select the checkbox next to it.

- 8. If you want to manage the computers imaged with this configuration:
 - a. Click the **Management** tab and select the checkbox labeled **Ensure that Computers imaged with this** configuration are managed.
 - b. Enter credentials for an administrator account that has SSH access to the computers, and then type the password again to verify it.
 - c. If this is a new account, select the checkbox labeled **Create this account if it does not exist** and the account will be created for you.

- d. If the account is a new account, you can configure two additional options:
 - You can hide the account by selecting the checkbox labeled **Hide this account from the Mac OS X login window.**
 - You can make this the only account that has SSH access to the computers by selecting the checkbox labeled **Configure SSH (Remote Login) to only allow access for this user**.

() General	Scontents	Management	S Homepage	Additional Partitions
	🗹 Ensure th	nat computers imag	ed with this co	nfiguration are managed
		Username:	new admin	
		Password:	•••••	
		Verify Password:	•••••	
	🗹 Create thi	s account if it does	not exist	
	🗌 Hide th	is account from the	Mac OS X logir	1 window
	🗌 Configu	ire SSH (Remote Log	in) to only allo	w access for this user
	Configuration			(Cancel) (Save

- 9. To set a default homepage for the clients:
 - a. Click the **Homepage** tab.
 - b. Enter the web address for the homepage in the Homepage field.

1		1	<u>g</u>	
General	Contents	Management	Homepage	Additional Partitions
		Homepage:		

10. Click the **Save** button.

To set up partitioning for a configuration using Casper Admin:

- 1. Open Casper Admin.
- 2. Create or edit the configuration to partition.
 - To create a new configuration, click the **New Config** button in the toolbar.
 - To edit an existing configuration, select the configuration in the sidebar.
- 3. Click the Additional Partitions tab.
- 4. Click the Add (+) button.
- 5. Enter a name for the partition in the **Partition Name** field.
- 6. Specify the size you want the partition to be in the Size field.

- 7. Specify the maximum percentage of space that the partition should take up on the target drive.
- 8. To deploy a configuration to the partition:
 - a. Choose Journaled HFS+ from the Format pop-up menu.
 - b. Choose the configuration that you want to install from the Install the Configuration pop-up menu.
 - c. If you want this partition to be re-imaged on subsequent images of the primary partition, select the **Re-image this partition if it already exists** option.
 - d. To append a string to the computer name from the primary partition, specify the computer name in the field labeled **Append to Computer Name**.
 - e. Click OK.

Partition Name:	Secondary OS X	I
randon Name.	Secondary OS X	
Size:	20 GB	I
Maximum Percentage of Drive:	20 %	I
Format:	Journaled HFS+	I
	This is a Restore Partition	I
Install this Configuration:	My Configuration \$	I
	Re-image this partition if it already exists	I
Append to Computer Name:	-Secondary	I
	Cancel OK	

- 9. To deploy a Restore partition to the partition:
 - a. Choose Journaled HFS+ from the Format pop-up menu.
 - b. Select the This is a Restore Partition checkbox.
 - c. Choose an OS package from which to create the Restore partition.

Note: Casper Admin identifies any package that has a priority of 1 as an OS package.

- d. To append a string to the computer name from the primary partition, specify the computer name in the field labeled **Append to Computer Name**.
- e. Click **OK**.

Partition Name:	Restore
Size:	10 GB
Maximum Percentage of Drive:	10 %
Format:	Journaled HFS+ \$
	This is a Restore Partition
Install this OS Package:	Clean OS X Installation \$
	Re-image this partition if it already exists
Append to Computer Name:	-Restore
	Cancel

- 10. To deploy a Winclone image to the partition:
 - a. Choose NTFS from the Format pop-up menu.
 - b. Choose the image that you want to install.
 - c. Select the **Re-image this partition if it already exists** option if you want the partition to be re-imaged on subsequent images of the primary partition.

d. Click OK.

Partition Name:	Windows
Size:	50 GB
Maximum Percentage of Drive:	40 %
Format:	NTFS ‡
	This is a Restore Partition
Install this Windows Image:	Win7-WinClone.winclone \$
	☑ Re-image this partition if it already exists
Append to Computer Name:	-Restore
	Cancel OK

11. Repeat steps 2 through 10 for each additional partition.

To set up partitioning for a configuration using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Casper Admin link.
- 4. Create or edit the configuration to partition.
 - To create a new configuration, click the **New Config** button in the toolbar.
 - To edit an existing configuration, select the configuration in the sidebar.
- 5. Click the Additional Partitions tab.
- 6. Click the Add New Partition link.
- 7. Enter a name for the partition and specify the size that you want it to be.
- 8. Specify the maximum percentage space that the partition should take up on the target drive.
- 9. To deploy a configuration to the partition:
 - a. Choose Journaled HFS+ from the Format pop-up menu.
 - b. Choose the configuration that you want to install.
 - c. If you want this partition to be re-imaged on subsequent images of the primary partition, select the **Re-image this partition if it already exists** option.
 - d. To append a string to the computer name from the primary partition, specify the computer name in the field labeled **Append to Computer Name**.

e. Click OK.

Edit Configuration: My Configuration				
0		1	Q	
General	Contents	Management	Homepage	Additional Partitions
		Partition Name:	Secondary	
		Size:	20 GB	
Maximum Percentage of Drive: 20 %				
Format: Journaled HFS+				
			🗌 This is a Resto	ore partition
		Configuration:	My Configuration	\$
			🗌 Re-image this	s Partition if it already exists
	Append to C	omputer Name:	-Secondary	
			ОК	
Delete this	Configuration			Cancel Save
_	_			

- 10. To deploy a Restore partition to the partition:
 - a. Choose Journaled HFS+ from the Format pop-up menu.
 - b. Select the This is a Restore Partition checkbox.
 - c. Choose the OS package from which the Restore partition should be created.

Note: Casper Admin identifies any package that has a priority of 1 as an OS package.

- d. To append a string to the computer name from the primary partition, specify the computer name in the field labeled **Append to Computer Name**.
- e. Click OK.

aración. My c	onfiguration			
-	1	Q.		
Contents	Management	Homepage	Additional Partitions	
F	artition Name:	Restore		
	Size:	10 GB		
Maximum Percentage of Drive: 10 %				
Format: Journaled HFS+				
This is a Restore partition				
	Package:	Clean OS X Installa	ition 😫	
		Re-image this	Partition if it already ex	ists
Append to Computer Name: -Restore				
		ОК		
Configuration			Car	icel Save
	ximum Percer Append to Co	Partition Name: Size: ximum Percentage of Drive: Format: Package: Append to Computer Name:	Partition Name: Restore Size: 10 GB ximum Percentage of Drive: 10 % Format: Journaled HFS+ This is a Restor Package: Clean OS X Installa Re-image this Append to Computer Name: -Restore OK	Partition Name: Restore Size: 10 GB ximum Percentage of Drive: 10 % Format: Journaled HFS+ This is a Restore partition Package: Clean OS X Installation ; Re-image this Partition if it already ex Append to Computer Name: Restore

- 11. To deploy a Winclone image to the partition:
 - a. Choose NTFS from the Format pop-up menu.
 - b. Choose the image that you want to install.
 - c. If you want the partition to be re-imaged on subsequent images of the primary partition, select the **Re-image this partition if it already exists** option.

d. Click OK.

🧿 General	💝 Contents	L Management	Homepage	Additional Partitions	
	I	Partition Name:	Windows		
		Size:	50 GB		
Maximum Percentage of Drive: 40 %					
Format: NTFS					
Package: WindowsVista.winclone					
			Re-image this	Partition if it already ex	ists
	Append to Co	omputer Name:	-Windows		
			ОК		
	Configuration			Car	cel Save

- 12. Repeat steps 4 through 11 for each additional partition.
- 13. Click the Save button.

Creating Smart Configurations

Smart configurations are based on other configurations. When you create a smart configuration, the configuration it is based on is called the standard configuration.

Smart configurations inherit the following components from their standard configuration:

- Packages
- Scripts
- Printers
- Directory bindings
- Management account information
- Homepage
- Partitions

Making changes to a standard configuration automatically updates the smart configuration to reflect the changes.

The instructions in this section explain how to create a smart configuration using Casper Admin or the JSS.

To create a smart configuration using Casper Admin:

- 1. Open Casper Admin.
- 2. Click the **New Config** button in the toolbar.
- 3. Enter a name for the configuration.

- 4. (Optional) Enter a description of the configuration.
- 5. Select the Smart Configuration button.
- 6. Choose the configuration on which you want to base the smart configuration, and then click **OK**.
- 7. Add packages, scripts, printers, and directory bindings to the configuration, if necessary.

Note: To display only items unique to the smart configuration (the items you added in step 7), click the **Hide Items from Parent Configuration** button. To turn off this feature, click the **Hide Items from Parent Configuration** button again to depress it.

To create a smart configuration using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Casper Admin link.
- 4. Click the **New Config** button in the toolbar.
- 5. Enter a name for the configuration.
- 6. (Optional) Enter a description of the configuration.
- 7. Select the **Smart Configuration** button.
- 8. Choose the configuration on which you want to base the smart configuration, and then click **OK**.
- 9. Click the **Contents** tab and add packages, scripts, printers, and directory bindings to the configuration if necessary.
- 10. Click Save.

Compiling Configurations

The compilation process installs the contents of a configuration to a single disk image, and then makes a block copy of the configuration. You can choose to make the disk image a compressed or an uncompressed file.

The time it takes to complete the compilation process varies with the amount data in the configuration. For the fastest results, use a wired connection.

To compile a configuration using Casper Admin:

- 1. Open Casper Admin.
- 2. In the sidebar, select a configuration and click the **Compile** button.
- 3. Choose to create a compressed or an uncompressed disk image.
- 4. Specify credentials for the local administrator account.

5. Click OK.

Note: You may be prompted to authenticate multiple times during this process.

Deleting Configurations

If there are clients using Autorun with a configuration you need to delete, it is recommended that you delete the entire configuration from the JSS. This gives you the option to update the Autorun data using a new configuration.

The instructions in this section explain how to delete a configuration using Casper Admin or the JSS.

To delete a configuration using Casper Admin:

- 1. Open Casper Admin.
- 2. In the sidebar, select the configuration that you want to delete and click the **Delete** button in the toolbar.
- 3. Click **OK** to confirm.

To delete a configuration using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Casper Admin link.
- 4. In the sidebar, select the configuration that you want to delete and click the **Delete the Configuration** link.
- 5. To assign a new configuration that should be used for Autorun data, choose the configuration from the **Replace for Aurorun with** pop-up menu.

Delete Confirmation	
Configuration Name: My Configuration Description: Computers Using this Config for Autorun: 0 Replace for Autorun with: None 🛊	
(Delete Configuration)	
	Cancel

6. Click the **Delete Configuration** button.

Imaging a Drive

This section explains how to do the following:

- Prepare to image a hard drive
- Image a hard drive
- View Imaging logs using the JAMF Software Server (JSS)

Preparing to Image a Hard Drive

Before imaging a hard drive, you must boot to a different startup disk. Some of the most common options for booting to a different startup disk are as follows:

- NetBoot/NetInstall67
- a USB or FireWire drive
- a Restore partition

The JAMF Software Resource Kit includes a utility called the Casper NetInstall Creator. This utility creates a NetInstall image that has Casper Imaging automatically configured for you.

A Restore partition is a hidden partition configured to open Casper Imaging and automatically re-image a computer without intervention.

The instructions in this section explain how to do the following:

- Image a hard drive
- View imaging logs using the JSS

To image a hard drive:

- 1. Boot to a device other than the target disk.
- 2. Open Casper Imaging.
- 3. Choose the drive that you want to image from the **Target Drive** pop-up menu.
- 4. Select the **Erase <target drive>** checkbox.

Warning: Selecting this option will cause all data on the target drive to be lost.

- 5. Enter a name for the computer in the **Computer Name** field.
- 6. Choose a configuration from the **Install Configuration** pop-up menu.
- 7. Select the **Reboot to <target drive>** checkbox.

8. Choose a distribution point from the Use Distribution Point pop-up menu.

To use a local drive, choose "Choose Local Drive" and then choose the local drive.

The local drive must be an external drive that is replicated in Casper Admin. (For more information, see the "Replicating FireWire or USB Drives" section in "Managing Distribution Points.")

9. Click Install.

0 😶 0	Casper Imaging	\Box
Refresh Custom Install	Qr	8
Refresh Custom Install Refresh Custom Install Acintosh HD Isae Macintosh HD Isae Macintosh HD Isae Macintosh HD Set Name to MyCompary- Update Bryhost Files Prepare FirstRun Script New AD Binding Ad Printer 1 Update Inventory Reboot to Macintosh HD	Installation - /Volumes/Macintosh HD - disk0s2 Target Drive: Macintosh HD)
	Automated Imaging Options Store all imaging information for this computer in the JSS Automatically Image this Computer the next time Casper Imaging is launched Cache a copy of every Package and Script for re-imaging Skip the 60-120 Second Delay before Casper Imaging automatically images	

To view Imaging logs using the JSS:

- 1. Log in to the JSS using a web browser.
- 2. Click the **Logs** tab.
- 3. Click the **Casper Imaging Logs** link.
- 4. Click the **View Log** link across from the log that you want to view.

Customizing the Imaging Process

The imaging process is made up of the following components:

- Packages
- Scripts
- Printers
- A local account
- Directory bindings
- An Open Firmware/EFI password
- Network settings

Although configurations already contain most of these components, you can fully customize the imaging process by modifying each component as needed.

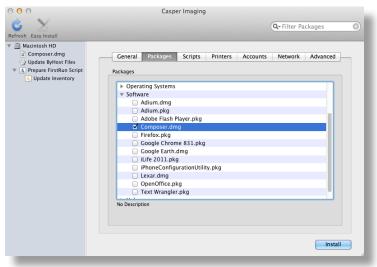
This section explains how to do the following:

- Changing the selected package
- Changing the selected scripts
- Changing the selected printers
- Creating a new local account
- Changing the selected directory bindings
- Setting an Open Firmware/EFI password

To change the selected packages:

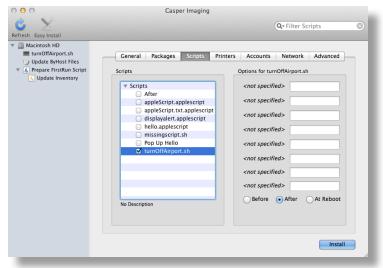
- 1. Open Casper Imaging.
- 2. Click the **Custom Install** button in the toolbar.
- 3. Click the Packages tab.

4. In the list of packages, locate the packages you want to add or remove and select the checkbox next to each one.



To change the selected scripts:

- 1. Open Casper Imaging.
- 2. Click the **Custom Install** button in the toolbar.
- 3. Click the Scripts tab.
- 4. In the list of scripts, locate the scripts you want to add or remove and select the checkbox next to each one.



5. Enter custom parameters and select a priority for each script using the **Before**, **After**, and **At Reboot** options.

To change the selected printers:

1. Open Casper Imaging.

- 2. Click the **Custom Install** button in the toolbar.
- 3. Click the **Printers** tab.
- 4. In the list of printers, locate the printers you want to add or remove and select the checkbox next to each one.

000	Casper Imaging	
<u> </u>		Q- Filter Printers
Refresh Easy Install		
Refresh Easy Install	Ceneral Packages Scripts Printers Ace Printers Printers Printer 1 Printer 2	counts Network Advanced
	No Description	Install

To create a new local account:

- 1. Open Casper Imaging.
- 2. Click the **Custom Install** button in the toolbar.
- 3. Click the **Accounts** tab.
- 4. Click the Add (+) button below the list of new local accounts.
- 5. Specify the new account information in the dialog that appears and click **OK**.

To change the selected directory bindings:

- 1. Open Casper Imaging.
- 2. Click the **Custom Install** button in the toolbar.
- 3. Click the **Accounts** tab.

4. In the list of directory bindings, select the checkbox next to each binding you want to add or remove.

00	Casper Imaging	
Cefresh Easy Install		Q. 😒
Advinto AHD Jordate ByHost Files Jordate ByHost Files Server FirstRun Script New AD Binding Update Inventory	General Packages Scripts Print New Local Accounts Real Name Username H	ers Accounts Network Advanced
	+ - Directory Bindings	Open Firmware/EFI Password
	Vew AD Binding Built-In AD New Open Director Built-In OD	Mode: none : Password: Verify:
		Install

To set the Open Firmware/EFI password:

- 1. Open Casper Imaging.
- 2. Click the **Custom Install** button in the toolbar.
- 3. Click the **Accounts** tab.
- 4. Select the **Set Open Firmware/EFI Password** checkbox.
- 5. Choose **Command** from the **Mode** pop-up menu.
- 6. Enter and verify the password for your account.

$\Theta \Theta \Theta$	Casper Imaging	
Refresh Easy Install		Q. 💿
Macintosh HD Update ByHost Files Gerepare FirstRun Script Remove Open Firmwar Update Inventory	General Packages Scripts Print New Local Accounts	ers Accounts Network Advanced
	Real Name Username H	iome Directory
	Directory Bindings Name Type New AD Binding Built-In AD New Open Director Built-In OD	Open Firmware/EFI Password ✓ Set Open Firmware/EFI Password Mode: none ÷ Password: Verify: Verify:
_		/

Computer-Specific Network Settings

In order to change a computer's network settings, Casper Imaging must be able to locate a network configuration that has the same settings (for instance, manually, using DHCP with a manual IP address, using DHCP, or using BootP) as the computer.

For example, if a computer requires a manually entered IP address, the configuration must require the same.

If only a few computers require a certain network configuration (or your OS package does not have one of the network configuration types listed in Casper Imaging), you can build a package that contains the following file:

/Library/Preferences/SystemConfiguration/preferences.plist

You should take this file from a computer that has the network configuration type you are looking for, such as manually or using DHCP with a manual IP address.

The instructions in this section explain how to do the following:

- Change the network settings
- Set the Apple Remote Desktop info fields
- Reset or fix permissions after imaging
- Display the Mac OS X Setup Assistant on the first boot

To change the network settings:

- 1. Open Casper Imaging.
- 2. Click the **Custom Install** button in the toolbar.
- 3. Click the **Network** tab.
- 4. Choose "Ethernet" or "Airport" from the **Show** pop-up menu.

5. Choose the network configuration type from the **Configure IPv4** pop-up menu, and then make the necessary changes.

Note: Any fields left blank will not be modified when Casper Imaging updates the settings.

To set the Apple Remote Desktop info fields:

- 1. Open Casper Imaging.
- 2. Click the **Custom Install** button in the toolbar.
- 3. Click the **Advanced** tab and specify any relevant information.

000	Casper Imaging	
Cefresh Easy Install		Q- 😒
Macintosh HD		
 Update ByHost Files Repare FirstRun Script 	General Packages Scripts Printers	Accounts Network Advanced
Update Inventory	Apple Remote Desktop Info Fields Par	titioning
	Info 1:	Macintosh HD - 320.07 GB
	Info 2:	
	Info 3:	
	Info 4:	
	Get Existing	
	Advanced Options	
	Fix ByHost Files	
	Update Prebindings	
	Fix Permissions	
	Show Setup Assistant After Reboot	
		Install
_		

To reset or fix permissions after imaging:

- 1. Open Casper Imaging.
- 2. Click the **Custom Install** button in the toolbar.

3. Click the **Advanced** tab and select the **Fix Permissions** checkbox.

$\Theta \Theta \Theta$	Casper Imaging	
Refresh Easy Install		Q . 🛞
Macintosh HD Update ByHost Files General Firstkun Script Firstkun Script Firstkun Script General Update Inventory	General Packages Scripts Print Apple Remote Desktop Info Fields Info 1: Info 2: Info 2: Info 3: Info 3: Info 4: Info 4:	Accounts Network Advanced Partitioning Macintosh HD - 320.07 GB
_		Install

To display the Mac OS X Setup Assistant on the first boot:

- 1. Open Casper Imaging.
- 2. Click the **Custom Install** button in the toolbar.
- 3. Click the Advanced tab and select the Show Setup Assistant After Reboot checkbox.

Note: If you do not select the **Show Setup Assistant After Reboot** checkbox, Casper Imaging will make sure the file exists in:

/private/var/db/.AppleSetupDone

Managing Autorun Preferences

Autorun preferences allow you to control delay, load balancing, and caching settings for Casper Imaging's Autorun feature. The following list explains each preference setting:

 Delay—The minimum number of seconds that Casper Imaging waits before automatically imaging a computer.

During this delay, a pane is displayed that lets administrators cancel reformatting of the drive if necessary.

Random additional delay—The number of seconds added to the delay.

Setting an additional delay can relieve stress from the distribution point when a large deployment is staggered over a period of time.

• Enable Load Balancing for distribution points—Randomly assigns distribution points for each computer if the distribution point has a backup.

This does not guarantee distribution points will balance perfectly as the balancing is done client-side.

Leave this much space available when caching packages—Caches packages locally until the specified amount of space remains on the client.

This only takes place if Casper Imaging is configured to cache packages during the Autorun process. See the "Using the Autorun Feature" section for more information.

 Compare Cached Packages using—Specifies whether file size, modification date, or checksum is used to ensure the latest copy of a package.

This only takes place if Casper Imaging is configured to cache packages during the Autorun process. See the "Using the Autorun Feature" section for more information.

To set Autorun preferences:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Autorun Preferences link.
- 4. On the pane that is displayed, set Autorun preferences as needed.

Autorun Preferences	
Autorun Preferences	
Preferences for how Casper Imaging's Autorun feature behaves.	
Dela	y: 0 seconds
Random additional dela	y: 0 seconds
Enable Load Balancing for distribution point	s: 🗌
Leave this much space available when caching package	s: 0 MB
Compare Cached Packages usin	g: 💽 File Size
	Modification Date
	Checksum (Slow)
	Cancel Save

5. Click the Save button.

Using the Autorun Feature

The Autorun feature allows you to automatically re-image computers according to a schedule. This reduces the amount of time and interaction required to prepare a lab or classroom for use.

The Autorun preferences allow you to configure delay, load balancing, and caching options for the Autorun feature. See the section entitled "Managing Autorun Preferences" for more information.

The instructions in this section explain how to do the following:

- Store Autorun data for a computer
- Create Autorun data for a computer
- Bypass the Autorun feature
- Edit Autorun data for a computer
- Delete Autorun data for a computer

You can also edit and delete Autorun data for multiple computers at one time. See the "Performing Mass Actions on Computer Search Results" section for more information.

To store Autorun data:

- 1. Open Casper Imaging on the computer you want to store Autorun data for.
- 2. Configure imaging options for the computer, and then select the checkbox labeled **Store all imaging** information for this computer in the JSS.
- 3. Enter the password for the local account if prompted and click **OK**.
- 4. To automatically re-image the computer the next time Casper Imaging is launched, select the **Automatically image this computer the next time Casper Imaging is launched** checkbox.
- 5. To reduce network traffic during subsequent re-images, select the checkbox labeled **Cache a copy of** every package and script for re-imaging.

This prompts Casper Imaging to keep a copy of each package and script.

6. To bypass the delay that takes place before the imaging process begins, select the checkbox labeled **Skip** the 60–120 Second delay before Casper Imaging automatically images.

Note: Once Autorun data is stored for the computer, it is imaged automatically when Casper Imaging is launched.

To create Autorun data for a computer:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced computer search.

- 4. Click Autorun across from the computer record.
- 5. On the Install pane, specify installation information and set imaging options.

Note: Re-imaging a computer with Autorun data does not modify the management information on the computer.

- 6. Use the six remaining tabs (**Packages**, **Scripts**, **Printers**, **Accounts**, **Network**, and **Advanced**) to specify any additional information as needed.
- 7. Click the **Save** button.

To bypass the Autorun feature:

To temporarily bypass the Autorun feature, hold down the Shift key when you open Casper Imaging.

To edit Autorun data for a computer:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced computer search.
- 4. Click **Autorun** across from the computer record you want to edit.
- 5. On the Install pane, add or modify the information as needed.

			-	11	0	÷
tall	Packages	Scripts	Printers	Accounts	Network	Advanced
Ins	tallation					
	Target	Drive: Maci	ntosh HD			
		E	rase Target I	Drive		
	Computer	Name: MyCo	ompany0005			
In	stall Configu	ration: Emp	ty	\$		
		✓ R	eboot To Ta	rget Drive Whe	en Done	
Use	e Distribution	Point: phir	eas.jamfsw.co	orp (afp://phinea	s.jamfsw.corp/	CasperShare) 🛟
Loc	al Authenticat			ging to run A	utomatically	
Loc	al Authenticat	tion to allow Local Use Local Pa	ername:	ging to run Aı	utomatically	
		Local Us Local Pa	ername: ssword:	ging to run Ai	utomatically	
JAN	NF Software Se	Local Use Local Pa erver Option	ername: ssword:			
JAN	IF Software Se Store all imag	Local Usi Local Pa erver Option ging informa	ername: ssword: is ation for this	s computer in	the JSS	is launched
JAN	1F Software Se Store all imag Automatically	Local Us Local Pa erver Option ging informa y Image this	ername:ssword:s ssword:s ation for this Computer t		the JSS	g is launched
JAN	IF Software Se Store all imag Automatically Cache a copy	Local Usi Local Pa erver Option ging informa y Image this y of the ever	ername: ssword: ssword: s ation for this Computer t y Package at	s computer in he next time C	the JSS Casper Imaging	-
JAN	IF Software Se Store all imag Automatically Cache a copy	Local Usi Local Pa erver Option ging informa y Image this y of the ever	ername: ssword: ssword: s ation for this Computer t y Package at	s computer in he next time C nd Script for re	the JSS Casper Imaging	-
JAN	IF Software Se Store all imag Automatically Cache a copy	Local Usi Local Pa erver Option ging informa y Image this y of the ever	ername:ssword:s ation for this Computer t y Package ar Delay before	s computer in he next time C nd Script for re	the JSS Casper Imagin e-imaging ing automatic	cally images

- 6. Use the six remaining tabs (**Packages**, **Scripts**, **Printers**, **Accounts**, **Network**, and **Advanced**) to specify any additional information as needed.
- 7. Click the **Save** button.

To delete Autorun data for a computer:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced computer search.
- 4. Click Autorun across from the computer record.
- 5. Click the **Remove Autorun Data for this Computer** button.

torun l	Data for MyCo	mpany0005				
4			-	11	۲	\
stall	Packages	Scripts	Printers	Accounts	Network	Advanced
Inst	tallation					
	Target	Drive: Maci	ntosh HD			
		E	rase Target I	Drive		
	Computer	Name: MyC	ompany0005			
In	stall Configur	ation: Emp	ity	\$		
		🗹 R	eboot To Ta	rget Drive Wh	en Done	
Use	e Distribution	Point: phir	neas.jamfsw.co	rp (afp://phinea	s.jamfsw.corp/	CasperShare) 🛟
		Local Us Local Pa				
JAN	IF Software Se	erver Optior	IS			
\checkmark	Store all imag	ing inform	ation for this	computer in	the JSS	
	-	-				ng is launched
				nd Script for n Casper Imag		cally images
	skip the ou-	20 Second	beiay before	casper intag	ing automatic	any mayes
_						

6. Click the **Delete Permanently** button to confirm.

PreStage Imaging

PreStage imaging allows you to image computers or groups of computers automatically as you add them to your network. When you create a PreStage, you pre-configure the imaging process to include information that you want to use to image the computers.

Using a PreStage automatically acquires newly imaged computers and manages any computers or configurations that are associated with an SSH account.

The instructions in this section explain how to create, view logs for, edit, and delete a PreStage.

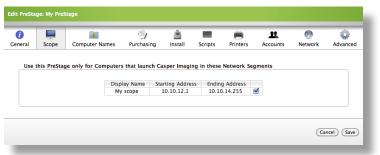
To create a PreStage:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **PreStage Imaging** link.
- 4. Click the **Create PreStage** button in the toolbar.
- 5. Enter a display name for the PreStage.
- 6. Set the date and time you want the PreStage to become active using the **Make active after** pop-up menus.
- Set the date and time you want to PreStage to expire using the Disable after pop-up menus.
 If you don't want the PreStage to expire, set a date far ahead in the future, such as "12/30/2020".
- 8. Specify how you want the PreStage to assign names to the computers:
 - If you select the List of Names option, you can provide a list of computer names from which names are assigned.
 - If you select the Using MAC Addresses option, names are assigned according to each computer's MAC address.
 - If you select the Using Serial Number option, names are assigned according to each computer's serial number.
- 9. Choose whether to limit the scope of the PreStage to computers in certain network segments, with specific MAC addresses, or with certain serial numbers.

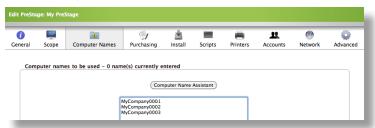
10. If you want Casper Imaging to automatically image the computer during the initial imaging, select the **Run Automatically During Initial Imaging** checkbox.

dit PreSta	ge: Untitled	PreStage							
0	100	٥	1	4			11	0	*
General	Scope	Computer Names	Purchasing	Install	Scripts	Printers	Accounts	Network	Advanced
Executi	on Options								
		Display Nam	e: My PreStage						
		Make active afte	r: 2 ÷ / 1	3 \$ / 20	12 ‡ at 4	4 \$: 00	\$ PM \$		
		Disable afte	r: 2 ÷ / 1:	3 \$ / 20	12 ‡ at 4	B ‡ : 00	¢ PM \$		
		Enable	d: 🔾 Yes 💿 No						
		Assign Names Usin			-		-	er	
		Limit Scope B	y: •Network Se	-		-	lumbers		
			Run Autom		-				
			Send Email	Notification	on Initial C	ontact from N	lew Computer		
Defa	ilt Inventor	y Settings for Comput	ters Imaged wit Department: Building:	No Departr	nent ‡	•			
								Ca	ncel Save
	-	_	-	-	-	-	-	-	-

- 11. To receive an email notification when a new computer is imaged using the PreStage, select the **Send Email Notification on Initial Contact from New Computer** checkbox.
- 12. Click the **Scope** tab.
- 13. Based on how you chose to limit the scope in step 9, select the network segments to which the PreStage should be made available or enter the computers' MAC addresses or serial numbers.



- 14. Click the **Computer Names** tab.
- 15. If you chose to assign names to the computers using a list of names in step 8, do one of the following:
 - Manually enter a list of computer names in the blank field provided.



- If the names are in numerical order, perform the following steps to have the JSS populate the list for you:
 - a. Click the Computer Name Assistant button.

- b. Specify a prefix, starting number, ending number, and suffix in the fields provided.
- c. A sample entry is displayed for your reference.
- d. Click the Add Names button.

() ieneral	Scope	Compute	r Names	Purchasing	Install	Scripts	Printers	Accounts	Metwork	Advanced
Com	puter Nam	es Assistan	t			Computer	Names Assista	nt Example		
		Prefix:	MyCompan	y			Prefix	JAMF-		
	Startin	ng Number:	0001			St	arting Number	r: 0010		
	Endir	ng Number:	0009			E	nding Number	r: 0012		
		Suffix:	×				Suffix	×		
		Add	Names			т	JAI	ces three comp MF-0010x MF-0011x MF-0012x	uter names:	
										ncel) (Sa

16. If you chose to assign names to the computers using MAC addresses in step 8, enter a prefix and suffix for the MAC addresses and specify the maximum number of computers the PreStage should be used for.

If there is no definite number, enter a large number, such as "99999".

0	100		1			-	11	۲	-
General	Scope	Computer Names	Purchasing	Install	Scripts	Printers	Accounts	Network	Advanced
	Computer	's MAC Address will b	Prefix MAC Ad Suffix MAC Ad t to This Many (dress With: dress With:	MyCompany x	1]]		
								(ncel) (Save

17. If you want new computers to include purchasing information on their inventory reports, click the **Purchasing** tab and enter the information you want them to include.

Purchased (e) Leased () PO Number: PO Date: NA (e) / NA (e) / NA (e) Vendor: Warranty Expires: NA (e) / NA (e) / NA (e) AppleCare ID: Lease Expires: NA (e) / NA (e) OS AppleCare ID: OS Maintenance Expires: NA (e) / NA (e) Purchasing Account: Purchasing Contact: No Attachments. Attach File	() General	Scope	Computer Names	Purchasing	install	Scripts	Printers	Accounts	() Network	🔅 Advanced
Vendor: Warranty Expires: NA ? / NA ? AppleCare ID: Lease Expires: NA ? / NA ? OS AppleCare ID: OS Maintenance Expires: NA ? / NA ? Purchase Price: Life Expectancy: NA ? Purchasing Account: Purchasing Contact:				Purc	hased 📀 L	eased 🔘				
AppleCare ID: Lease Expires: NA * ? / NA * ? OS AppleCare ID: OS Maintenance Expires: NA * ? / NA * ? Purchase Price: Life Expectancy: NA * ? Purchasing Account: Purchasing Contact: No Attachments.			PO Number:			PO	Date: 🛛 🛚 🖨	/ NA 🗘 /	NA 🗘	
OS AppleCare ID: OS Maintenance Expires: NA ? / NA ? / NA ? Purchase Price: Life Expectancy: NA ? Purchasing Account: Purchasing Contact: No Attachments.			Vendor:		W	/arranty Exp	oires: 🛛 🛤 😫	/ NA 🕻 /	NA 🛟	
Purchase Price: Life Expectancy: N/A Purchasing Account: Purchasing Contact: No Attachments.			AppleCare ID:			Lease Exp	oires: 🛛 🛤 🛟) / 🖪 🗘 /	NA 🛟	
Purchasing Account: Purchasing Contact: No Attachments.		OS	AppleCare ID:		OS Main	tenance Exp	oires: 🛛 🛤 📫) / 🛛 🕇 /	NA 🛟	
No Attachments.		Р	urchase Price:			Life Expect	ancy: N/A	\$		
		Purcha	ising Account:		Pur	chasing Cor	ntact:			
Attach File		No Att	achments.							
		Attach	File							

18. Use the Install, Scripts, Printers, Accounts, Network, and Advanced panes to enter any additional imaging information.

To make this information available for the computers in the future, click the **Install** tab and select the **Store all imaging information for this computer in the JSS** checkbox.

19. Click Save.

To view logs for a PreStage:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **PreStage Imaging** link.
- 4. Click the **View Status** link across from the PreStage.
- 5. Click the **View Log** link across from the log that you want to view.

To edit a PreStage:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **PreStage Imaging** link.
- 4. Click the **Edit** link across from the PreStage you want to modify and make the necessary changes.
- 5. Click **Save**.

To delete a PreStage:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **PreStage Imaging** link.
- 4. Click the **Delete** link across from the PreStage that you want to delete.
- 5. Click **Delete** to confirm.

Target Mode Imaging

Target Mode Imaging (TMI) is an alternative method for imaging large quantities of computers when using the network is not optimal. For example, MacBook Airs that do not have built-in ethernet but come with high-speed Thunderbolt ports can be imaged in mass using TMI. This method of imaging is faster than using USB Ethernet dongles, especially when using Thunderbolt.

Instead of running Casper Imaging on every computer by using NetBoot or booting from an external drive, you can run Casper Imaging on a host computer and connect other computers that are booted to Target Disk Mode.

TMI requires a host computer with a FireWire or Thunderbolt port and target computers that support Target Disk Mode.

To use TMI:

- 1. On the host computer, open Casper Imaging.
- 2. Choose "Target Mode Imaging" from the Target Drive pop-up menu.
- 3. To erase the target drives, select the Erase hard drives attached to this computer checkbox.

Warning: Selecting this option will cause all data on the target drives to be lost.

$\bigcirc \bigcirc \bigcirc$	Casper Imaging		
Refresh Custom Install		Q-	8
 The set of the set o	Computer Names: Prompt fo	ard drives attached to this computer	
	Target Mode Imaging Options		
	Computers Will Contact JSS: When a new drive is detected:		
		Start	

4. Specify how you want to name target computers by choosing an option from the **Computer Name** popup menu.

Choosing "Numerical order," "Use MAC Address," or "Use serial number" prompts you to specify a prefix and suffix. For "Numerical order," you must also specify a start number.

Choosing "Upload CSV file" prompts you to choose a CSV file. The CSV file must meet the following specifications:

- The first column contains the target computers' serial numbers or MAC Addresses.
 Acceptable delimiters for MAC Addresses are a period, a colon, or no delimiter.
- The second column contains the target computers' names.

5. Choose a configuration from the **Install Configuration** pop-up menu.

000	Casper Imaging		_
Refresh Custom Install		٩.	8
 The Cost of the second s	Computer Names: Numerical Install Configuration: Empty	rd drives attached to this computer Order sw.corp (afp://earth.jamfsw.corp/Caspe Within 4 Hours Prompt before imaging the drive	• • • •

6. Choose a distribution point from the **Use Distribution Point** pop-up menu.

To use a local drive, choose "Choose Local Drive" and then choose the local drive.

The local drive must be an external drive that is replicated in Casper Admin. (For more information , see the "Replicating FireWire or USB Drives" section in "Managing Distribution Points.")

- 7. If target computers will not be started up to contact the JSS immediately after imaging, specify an approximate contact time by choosing an option from the **Computers Will Contact JSS** pop-up menu.
- To automatically image subsequent drives when they are connected to the host computer, choose "Image automatically without prompting" from the When a new device is detected pop-up menu.
 By default, Casper Imaging displays a prompt before imaging each drive.
- 9. Click **Start**.

$\bigcirc \bigcirc \bigcirc$	Casper Imaging	
Refresh Custom Install	Q	8
 Next Attached Drive Frase drive 10.7.dmg Firefox.dmg Tirefox.dmg TurnOffAirports.h Set Name Update ByHost Files (a) Prepare FirstRun Script New AD Binding Add Printer 1 Update Inventory 	Installation - Target Mode Imaging Target Drive: Target Mode Imaging Target Drive: Target Mode Imaging Target Names: Numerical Order Install Configuration: My Configuration Use Distribution Point: earth.jamfsw.corp (afp://earth.jamf Target Mode Imaging Options Computers Will Contact JSS: Within 4 Hours When a new drive is detected: Image automatically w	÷ fsw.corp/Caspe ÷
		Start

10. Boot a target computer to Target Disk Mode.

To do this, turn on the computer and immediately press and hold down the T key.

11. Use a FireWire or Thunderbolt cable to connect the target computer to the host computer, and then click **OK** if prompted.

Casper Imaging immediately starts imaging the drive.

- 12. When the imaging process is complete, disconnect the target computer.
- 13. Repeat steps 10-12 for each target computer.

Patch Management

Running Software Update

You can automate Apple's Software Update on your client computers so that updates are installed in the background without disturbing users.

In Mac OS X 10.4 and later, Apple allows you to host your own software update server internally. This reduces bandwidth by downloading packages once per server instead of once per computer. It also allows you to control and approve updates using the Server Admin application on Mac OS X Server before you make them available.

Before using a policy to run Software Update on client computers from an internally hosted software update server, you must add one or more software update servers to the JAMF Software Server (JSS). For instructions on adding software update servers, see the "Software Update Servers" section.

The instructions in this section explain how to run Software Update using a policy or Casper Remote.

To run Software Update using a policy:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Create or edit the policy.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.
 - To edit an existing policy, click the Edit Policy link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to a category using the **Category** pop-up menu.
- 7. Choose a trigger from the Triggered By pop-up menu.
- 8. Specify how often you want clients to execute the policy using the Execution Frequency pop-up menu.
- 9. Click the Scope tab and assign computers or user groups to the scope.

10. Click the **Packages** tab and select the **Install All Software Updates** checkbox.

() eneral	Scope	Self Service	💝 Packages	Scripts	Printers	Salar Dock	Accounts	() Reboot	dvanced 🎇
Pac	:kages								
	Packag	e Name	Action	FUT	FEU	1	Autorun	Remove	
			There a	are no packa	ges in this po	licy			
	Package				6-6				
AI	I Cached Pa	ckages Install All Cachec	l Packages		Software		Install All Soft	ware Updates	

11. If you have an alternate software update server configured in your environment and you want to install the updates from this server instead of from apple.com, select the **Set Server** checkbox.

If you have multiple alternate software update servers configured, you can choose which one you want to install the updates from by:

- a. Selecting the **Set Server** checkbox.
- b. Clicking the **General** tab.
- c. Clicking the disclosure triangle next to **Override Default Policy Settings.**
- d. Selecting a server from the Software Update Server pop-up menu.

Tai	get Drive: /
Distribution Point:	Each Computer's Default Server
E Force	Distribution Points to use AFP/SMB instead of HTTP
Software Update Server:	Each Computer's Default Server 🛟
NetBoot Server:	Each Computer's Default NetBoot Server

- If an update requires client computers to reboot, the computers will do so by default.
 To change this setting or assign specific reboot criteria, click the **Reboot** tab and make the necessary changes.
- 13. Click Save.

Client computers execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To run Software Update using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, locate the clients you want to receive the software updates and select the checkbox next to each one.

3. Click the **Packages** tab and select the **Install All Updates** checkbox.

00	Casper Remote (1 Computer Selected)	
	X C	Filter Packages
w Window Screen Share Overrid	e Defaults Refresh Data	
Tasks		
(🐑 Install all availble SWUs	Computers Packages Scripts Printers Dock A	ccounts Reboot Advanced
Reboot if a package or SWU re		
elected Computers MyCompany0004	Packages	
- mycompanyooo4	▶ Software	
	No Description.	
	No Description.	
	Package Options	
	Action: Install + Fill User Templates Fill B	Existing Users Update Autorun
	All Cached Packages Software Upo	date
	Install All Cached Packages Set Set	rver 🗹 Install all updates
	Save a	as Schedule Go
	Jave	

- 4. If you have an alternate software update server configured in your environment and you want to install the updates from this server instead of from apple.com, select the **Set Server** checkbox.
- If an update requires client computers to reboot, they will do so by default.
 To change this setting or specify reboot criteria, click the **Reboot** tab and make the necessary changes.
- 6. Click Go.

Once these steps are complete, Casper Remote applies the update to each client computer by:

- 1. Logging in to each client using an SSH connection.
- 2. Verifying the client's identity using the MAC address.
- 3. Applying all available updates.
- 4. Rebooting the client, if necessary. (This step is based on any reboot settings you may have configured.)
- 5. Logging out of the SSH connection.

Installing Adobe CS3/CS4 Updaters

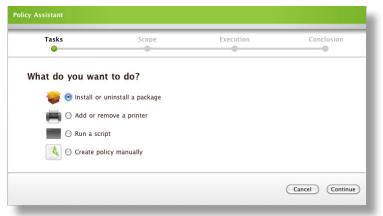
The Casper Suite allows you to deploy Adobe CS3 or CS4 Updaters without repackaging them.

Once you identify the DMG as an Adobe Updater, you can deploy it like any other package. For more information on adding a DMG of an Adobe CS3/CS4 Updater, see the section entitled "Managing Packages."

The instructions in this section explain how to install an Adobe Updater using a policy or Casper Remote.

To configure a policy to install an Adobe Updater using the Policy Assistant:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Click the **Create Policy** button in the toolbar.
- 5. Select the Install or uninstall a package option and click Continue.



6. Follow the instructions on each pane to configure the rest of the policy.

Client computers execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To manually configure a policy to install an Adobe Updater:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Policies** link.
- 4. Create a policy or edit an existing one.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.

- To edit an existing policy, click the Edit Policy link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to a category using the **Category** pop-up menu.
- 7. Choose a trigger from the **Triggered By** pop-up menu.
- 8. Specify how often you want clients to execute the policy using the **Execution Frequency** pop-up menu.
- 9. Click the **Scope** tab and assign computers or user groups to the scope.
- 10. Click the **Packages** tab and click the **Add Package** link.

Edit Policy	Install Ad	obe Updater Pol	icy						
0	100							٢	\$
General	Scope	Self Service	Packages	Scripts	Printers	Dock	Accounts	Reboot	Advanced
Pac	kages								
	Packag	ge Name	Action	FUT	FEU		Autorun	Remove	
			There a	ure no packa	ges in this po	licy			
Add	Package								
AI	I Cached Pa	ackages			Software	Update			
		Install All Cacheo	l Packages		📃 Set Se	erver 🖯	Install All Soft	ware Update	s
								Ca	ncel Save
-	_	_	_	_	_	_	_	_	_

- 11. Locate the updater you want to install and choose **Install** from the **Action** pop-up menu across from it.
- 12. Click the Add Package(s) button.



13. Click Save.

					Printers	eral Scope Self Service Packages Scripts					
InDesign CS4 Updater.dmg Install Ref									kages	Pac	
	nove	Remov	Autorun	FEU		Action					
Add Package	iove	Remove				Install	InDesign CS4 Updater.dmg				
									Package	Add	
All Cached Packages Software Update				e Update	Softwar			ackages	l Cached Pa	AI	
Install All Cached Packages Set Server Install All Software Update	tes	vare Updates	Install All Soft	erver 📃	📃 Set S		d Packages	Install All Cached			

Client computers execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To install an Adobe Updater using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, locate the clients on which you want to install the updater and select the checkbox next to each one.
- 3. Click the **Packages** tab.
- 4. In the **Packages** list, locate the updater you want to deploy and select the checkbox next to it.
- 5. Click **Go**.

Once these steps are complete, Casper Remote deploys the updater to each client computer by:

- 1. Logging in to the client using an SSH connection.
- 2. Verifying the client's identity using the MAC address.
- 3. Installing the Adobe Updater.
- 4. Logging out of the SSH connection.

Software Distribution

Installing Packages

The Casper Suite supports deployment for the following package formats:

- DMG
- PKG
- MPKG (Self-contained)
- Adobe CS3 or CS4 Installer

Make sure the software is packaged in one of these formats before you begin.

The first step to deploying a package is to upload the package using the Casper Admin application and assign it to a category. You can now configure custom deployment settings and modify the attributes of the package if necessary. For more information about uploading packages and customizing deployment settings, see the "Managing Packages" section of this guide.

Next, create a policy or use the Casper Remote application to deploy the package. Before choosing the method that you want to use, read the "Policies" section and consider the benefits of each method.

Once a package is deployed, client computers pull it from their default distribution point. Clients without default distribution point pull packages from the master distribution point. If HTTP is enabled on the distribution point, clients download the package over HTTP or HTTPS; if HTTP is not enabled, clients utilize Apple Filing Protocol (AFP) or Server Message Block (SMB) to obtain the packages. If you deploy the package using a policy, you can change these settings in the **Override Default Settings** section on the General pane when you edit or manually configure the policy.

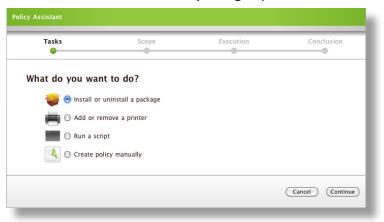
Once client computers obtain the package, it is installed in the background to avoid disturbing users.

The instructions in this section explain how to install a package using a policy or Casper Remote.

To configure a policy to install a package using the Policy Assistant:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Click the Create Policy button in the toolbar.

5. Select the **Install or uninstall a package** option and click the **Continue** button.



6. Follow the onscreen instructions to configure the rest of the policy.

Client computers execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To manually configure a policy to install a package:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Policies** link.
- 4. Create a policy or edit an existing one.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.
 - To edit an existing policy, click the Edit Policy link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to a category using the **Category** pop-up menu.
- 7. Choose a trigger from the **Triggered By** pop-up menu.
- 8. Specify how often you want clients to execute the policy using the **Execution Frequency** pop-up menu.
- 9. Click the **Scope** tab and assign computers or user groups to the scope.

10. Click the **Packages** tab and click the **Add Package** link.

dit Policy	Install Pol	licy							
() General	Scope	CO Self Service	🥪 Packages	Scripts	Printers	Dock	LL Accounts	() Reboot	Advanced
Pac	kages								
	Packag	ge Name	Action	FUT	FEU		Autorun	Remove	
	Package I Cached Pa	ackages			Software	e Update			
		Install All Cacheo	l Packages		🗆 Set Se	erver 📃	Install All Soft	ware Update:	•
								Ca	ncel Save

- 11. Locate the package you want to install and choose **Install** from the **Action** pop-up menu across from it.
- 12. Click the **Add Package(s)** button.

🥡 General	Scope	Self Service	Sackages	Scripts	Printers	Dock	Accounts	(U) Reboot	dvanced
	Pack	age Name		Category			Action		
Firefox.dmg				Software			lothing	•	
iLife 2	009.dmg			Software		0	nstall	•	
				Add Pack	(age(s)				

13. Click Save.

() General	Scope	Self Service	🨻 Packages	Scripts	Rinters	Nock	Accounts	(U) Reboot	ي Advanced
Pac	kages								
	Packag	je Name	Action	FUT	FEU		Autorun	Remove	
F	Firefox.dmg		Install					Remove	
	Package	ackages			Software	Update			
		Install All Cacheo	l Packages		🗌 Set Se	rver 📃	Install All Soft	ware Updates	

Client computers execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To install a package using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, locate the clients you want to install the package to and select the checkbox next to each one.
- 3. Click the **Packages** tab.
- 4. In the **Packages** list, locate the package you want to install and select the checkbox next to it.
- 5. Click **Go**.

Tasks (m) Install all availble SWUs (U) Reboot if a package or SWU re	Computers Packages Scripts Printers Dock Accounts Reboot Advance	d
elected Computers	Packages	
MyCompany0004	▶ Software	۱I
	No Description.	
	Package Options	
	Action: Install Fill User Templates Fill Existing Users Update Autor Update Autor	un
	Action: Install	un

Once these steps are complete, Casper Remote installs the package(s) by:

- 1. Logging in to each client using an SSH connection.
- 2. Verifying the client's identity using the MAC address.
- 3. Installing the package(s).
- 4. Logging out of the SSH connection.

Caching Packages

Caching packages allows client computers to download a series of packages over time without installing them right away. This reduces the use of bandwidth but still lets you make packages available to users simultaneously.

The same prerequisites and settings used to install packages also apply when caching packages.

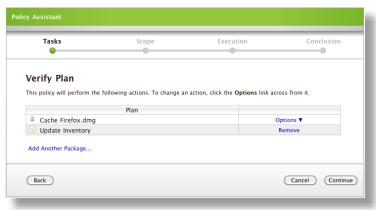
The instructions in this section explain how to cache a package using a policy or Casper Remote.

To configure a policy to cache a package using the Policy Assistant:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Click the Create Policy button in the toolbar.
- 5. Select the **Install or uninstall a package** option and click the **Continue** button.

Tasks O	Scope	Execution	Conclusion
What do you wa	nt to do?		
🌍 💿 Install o	r uninstall a package		
Add or r	remove a printer		
🗍 🔘 Run a so	ript		
🦄 🔘 Create p	olicy manually		

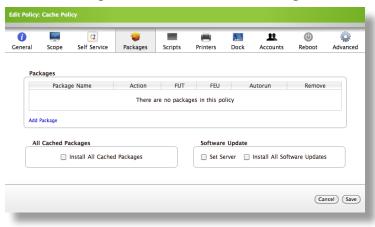
6. Follow the onscreen instructions until you get to the Verify Plan pane. Then, click **Options** and choose **Cache** from the menu.



7. Click the **Continue** button and follow the instructions on each pane to configure the rest of the policy. Client computers execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To manually configure a policy to cache a package:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Create a policy or edit an existing one.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.
 - To edit an existing policy, click the Edit Policy link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to a category using the **Category** pop-up menu.
- 7. Choose a trigger from the **Triggered By** pop-up menu.
- 8. Specify how often you want clients to execute the policy using the **Execution Frequency** pop-up menu.
- 9. Click the Scope tab and assign computers or user groups to the scope.
- 10. Click the **Packages** tab and click the **Add Package** link.



- 11. Locate the package you want to cache and choose **Cache** from the **Action** pop-up menu across from it.
- 12. Click the Add Package(s) button.

🥡 General	Scope	Self Service	🥪 Packages	Scripts	Printers	Dock	Accounts	() Reboot	🌼 Advanced
				_					
Firefo		age Name		Category Software		Action		•	
				Software					
iLife 2	009.dmg			Software			Nothing	•	
				Add Pack	(age(s)				

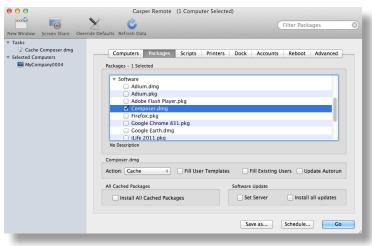
13. Click Save.

() General	Scope	CONTRACTOR Self Service	🥪 Packages	Scripts	Printers	Dock	Accounts	() Reboot	🌞 Advanced
Pac	kages								
	Packag	ge Name	Action	FUT	FEU		Autorun	Remove	
F	irefox.dmg		Cache					Remove	
	Package	skages			Coftware	Undata			
AI	I Cached Pa	ackages Install All Cacheo	l Packages		Software Update				

Clients execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To cache a package using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, locate the clients that you want to cache the package and select the checkbox next to each one.
- 3. Click the **Packages** tab.
- 4. In the **Packages** list, locate the package you want to cache and select the checkbox next to it.
- 5. Choose **Cache** from the **Action** pop-up menu.
- 6. Click Go.



Once these steps are complete, Casper Remote caches the package(s) by:

- 1. Logging in to each client using an SSH connection.
- 2. Verifying the client's identity using the MAC address.
- Caching the package(s) in the following directory: /Library/Application Support/JAMF/Waiting Room/
- 4. Logging out of the SSH connection.

Installing Cached Packages

You can choose to install one or all of the packages cached on a client computer.

The same prerequisites and settings used to install packages also apply when installing cached packages.

The instructions in this section explain how to use a policy or Casper Remote to do the following:

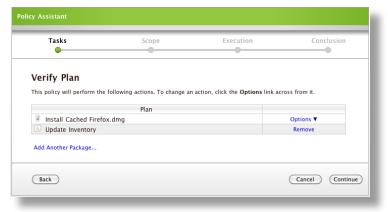
- Install a cached package
- Install all cached packages

To configure a policy to install a cached package using the Policy Assistant:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Policies** link.
- 4. Click the **Create Policy** button in the toolbar.
- 5. Select the **Install or uninstall a package** option and click the **Continue** button.

Policy Assistant								
Tasks O	Scope	Execution	Conclusion					
What do you wan	t to do?							
🌍 💿 Install or	uninstall a package							
Add or re	move a printer							
📄 🔘 Run a scr	pt							
🤇 🔿 Create po	licy manually							
			Cancel Continue					
			Cancer Continue					

6. Follow the onscreen instructions until you get to the Verify Plan pane. Then, click **Options** and choose **Install Cached** from the menu.



7. Click the **Continue** button and follow the instructions on each pane to configure the rest of the policy.

Client computers execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To manually configure a policy to install a cached package:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Create a policy or edit an existing one.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.
 - To edit an existing policy, click the **Edit Policy** link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to a category using the **Category** pop-up menu.
- 7. Choose a trigger from the Triggered By pop-up menu.
- 8. Specify how often you want clients to execute the policy using the **Execution Frequency** pop-up menu.
- 9. Click the **Scope** tab and assign computers or user groups to the scope.
- 10. Click the **Packages** tab and click the **Add Package** link.

() ieneral	Scope	I Self Service	😻 Packages	Scripts	Printers	SSS Dock	Accounts	() Reboot	dvanced
Pac	:kages								
	Packag	ge Name	Action	FUT	FEU		Autorun	Remove	
			There a	are no packag	ges in this po	licy			
	Package	ackages			Software	Update			
	I Cached Pa	ackages Install All Cacher	d Packages		Software		Install All Soft	ware Updates	5
	I Cached Pa		d Packages				Install All Soft	ware Updates	5

11. Locate the package you want to install and choose **Install Cached Copy** from the **Action** pop-up menu across from it.

12. Click the **Add Package(s)** button.

🥡 General	Scope	Self Service	P ackages	Scripts	Printers	Dock	Accounts	() Reboot	Advanced
Package Name				Category			Action		
Firefox.dmg				Software	Install Cached Copy 🗘			py 🛟	
iLife 20	09.dmg		:	Software	Nothing 🗘				
				Add Pack	age(s)				

13. Click Save.

() General	Scope	Self Service	e Packages	Scripts	Printers	Dock	Accounts	(U) Reboot	🔆 Advanced
Pac	kages								
	Package Name Action		Action		FUT	FEU	Autorun	Remove	2
F	irefox.dmg		Install Cach	ed				Remove	
	Package I Cached Pa	ickages			Softwa	re Update			
		Install All Cache	d Packages		🗌 Set	Server 🗌	Install All Soft	ware Updates	

Client computers execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To install a cached package using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, locate the clients that you want to install the package and select the checkbox next to each one.
- 3. Click the **Packages** tab.
- 4. In the **Packages** list, locate the package you want to install and select the checkbox next to it.
- 5. Choose Install Cached from the Action pop-up menu.

6. Click **Go**.

00	Casper Remote (1 Computer Selected)
New Window Screen Share Override E	Filter Packages
Tasks Install Cached Composer.dmg Selected Computers MyCompany0004	Computers Packages Scripts Printers Dock Accounts Reboot Advanced
	Vorentee Adium.dmg Adium.dmg Adium.pkg Adobe Flash Player.pkg Coogle Chromoser.dmg Firefox.pkg Google Chrome 83.1pkg Google Chrome 83.1pkg Google Chrome 83.1pkg Oocgle Carth.dmg ILife 2011.okg
	Composer.dmg Action: Install Cached : Fill User Templates Fill Existing Users Update Autorun All Cached Packages Software Update Install All Cached Packages Set Server Install all updates
	Save as Schedule Co

Once these steps are complete, Casper Remote installs the package by:

- 1. Logging in to each client using an SSH connection.
- 2. Verifying the client's identity using the MAC address.
- Installing the cached package from the following directory: /Library/Application Support/JAMF/Waiting Room/
- 4. Logging out of the SSH connection.

To install all cached packages using a policy:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Policies** link.
- 4. Create a policy or edit an existing one.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.
 - To edit an existing policy, click the **Edit Policy** link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to a category using the **Category** pop-up menu.
- 7. Choose a trigger from the **Triggered By** pop-up menu.
- 8. Specify how often you want clients to execute the policy using the **Execution Frequency** pop-up menu.
- 9. Click the **Scope** tab and assign computers or user groups to the scope.
- 10. Click the **Packages** tab and select the **Install All Cached Packages** checkbox.

11. Click Save.

Scope	Self Service	Packages	Scripts	Printers	Dock	Accounts	() Reboot	dvanced
ages								
Packag	e Name	Action	FUT	FEU	A	Autorun	Remove	
		There a	ire no packa	ges in this po	licy			
ackage Cached Pa	ckages			Software	Update			
v	install All Cached	d Packages		Set Server 📄 Install All Software Updates				
	ages Packag ackage Cached Pa	ages Package Name ackage Cached Packages	ages Package Name Action There a	ages Package Name Action FUT There are no packa ackage Cached Packages	ages Package Name Action FUT FEU There are no packages in this po ackage Cached Packages Software	ages Package Name Action FUT FEU / There are no packages in this policy ackage Cached Packages Software Update	ages Package Name Action FUT FEU Autorun There are no packages in this policy ackage Cached Packages Software Update	ages Package Name Action FUT FEU Autorun Remove There are no packages in this policy ackage Cached Packages Software Update

Client computers execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To install all cached packages using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, locate the clients that you want to install the cached packages and select the checkbox next to each one.
- 3. Click the **Packages** tab and select the **Install All Cached Packages** checkbox.
- 4. Click Go.

New Window Screen Share Overrid	e Defaults Refresh Data	(Filter Packages
 Install all Cached Packages Selected Computers MyCompany0004 	Computers Packages Scripts Printe	rs Dock Accounts Reboot Advanced
	► Software	
	No Description	
	Composer.dmg	
	Action: Install Cached 💠 🗌 Fill User Templ	ates Fill Existing Users Update Autorun
	All Cached Packages	Software Update
	Install All Cached Packages	Set Server Install all updates

Once these steps are complete, Casper Remote installs the packages by:

- 1. Logging in to each client using an SSH connection.
- 2. Verifying the client's identity using the MAC address.

- Installing the cached packages from the following directory: /Library/Application Support/JAMF/Waiting Room/
- 4. Logging out of the SSH connection.

Uninstalling Packages

You can uninstall a package from one or more client computers if the package was uploaded to the Casper Admin application prior to deployment.

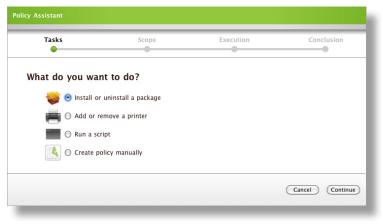
Before using the instructions in this section, index the package and enable the **Allow Uninstall** option. For instructions on how to do this, see both the "Indexing Packages" and "Changing Package Attributes" sections in this guide.

Note: You do not need to index the package and enable the **Allow Uninstall** option if you are uninstalling an Adobe CS3/CS4 Installer.

The instructions in this section explain how to uninstall a package using a policy or Casper Remote.

To configure a policy to uninstall a package using the Policy Assistant:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Click the Create Policy button in the toolbar.
- 5. Select the **Install or uninstall a package** option and click the **Continue** button.



6. Follow the onscreen instructions until you get to the Verify Plan pane. Then, click **Options** and choose **Uninstall** from the menu.

If the package is not indexed and/or the **Allow Uninstall** option is not enabled, the **Uninstall** option is not displayed.

Tasks	Scope	Execution	Conclusion
Verify Plan			
This policy will perform the	e following actions. To change a	n action, click the Options link	across from it.
Uninstall Firefox.dm	Plan		Options V
Update Inventory	9		Remove
Add Another Package			

7. Click the **Continue** button and follow the instructions on each pane to configure the rest of the policy.

Client computers execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To manually configure a policy to uninstall a package:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Create a policy or edit an existing one.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.
 - To edit an existing policy, click the Edit Policy link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to a category using the **Category** pop-up menu.
- 7. Choose a trigger from the **Triggered By** pop-up menu.
- 8. Specify how often you want clients to execute the policy using the **Execution Frequency** pop-up menu.
- 9. Click the **Scope** tab and assign computers or user groups to the scope.

10. Click the **Packages** tab and click the **Add Package** link.

Edit Policy:	Uninstall	Policy							
i) General	Scope	C Self Service	🥪 Packages	Scripts	Printers	Dock	Accounts	() Reboot	Advanced
Pac	kages								
	Packag	je Name	Action	FUT	FEU		Autorun	Remove	
			There a	ire no packa	ges in this po	licy			
Add	Package								
All	Cached Pa	ackages			Software	Update			
		Install All Cached	l Packages		📃 Set Se	erver 🗌	Install All Soft	ware Update:	5
								(5)	
								Ca	ncel Save

- 11. Locate the package you want to cache and choose **Uninstall** from the **Action** pop-up menu across from it. If the package is not indexed and/or the **Allow Uninstall** option is not enabled, the **Uninstall** option is not displayed.
- 12. Click the Add Package(s) button.

🥡 General	Scope	Self Service	🥪 Packages	Scripts	Printers	Dock	Accounts	() Reboot	Advanced
Jeneral	Scope	Jell Jelvice	Tackages	Scripts	rinters	DOCK	Accounts	KEDOOL	Advanced
	Pack	age Name		Category			Action		
Firefo	k.dmg			Software		<u> </u>	Ininstall	•	
iLife 2	009.dmg			Software		(N	lothing	•	
				Add Pack	(age(s)				
				Add Pack	(age(s)				

13. Click Save.



Client computers execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To uninstall a package using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, locate the clients that you want to remove the package from and select the checkbox next to each one.
- 3. Click the **Packages** tab.
- 4. In the **Packages** list, locate the package you want to uninstall and select the checkbox next to it.
- Choose the Uninstall from the Action pop-up menu below the list of packages.
 If the package is not indexed and/or the Allow Uninstall option is not enabled, the Uninstall option is not displayed.
- 6. Click Go.

New Window Control Observe	Verride Defaults Refresh Data	8
Tasks ② Uninstall Firefox 3.6.dmg Selected Computers ■ MyCompany0009	Computers Packages Scripts Printers Dock Accounts Reboot Advanced Packages - 1 Selected Packages - 1 Selected Firefox.3.6.dmg Birefox.3.6.dmg	

Once these steps are complete, Casper Remote uninstalls the package by:

- 1. Logging in to each client using an SSH connection.
- 2. Verifying the client's identity using the MAC address.
- 3. Uninstalling the package.
- 4. Logging out of the SSH connection.

Using the Self Healing Feature

In order to utilize the Self Healing feature, you must enforce Self Healing on your client computers.

Before you enforce Self Healing, make sure the following requirements are met:

- The package that contains the triggering file is indexed. (For more information, see the "Indexing Packages" section.)
- The Self Healing feature is enabled. (For more information, see the "Enabling the Self Healing Feature" section.)
- Each client computer on which you want to enforce Self Healing has Autorun data that includes the package that contains the triggering file. (For more information on creating Autorun data, see the section entitled "Using the Autorun Feature.")

After you enforce Self Healing, a log of each Self Healing event is stored in the JAMF Software Server (JSS).

The instructions in this section explain how to do the following:

- Enforce Self Healing using a policy or Casper Remote
- View Self Healing logs

To enforce Self Healing using a policy:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Create or edit the policy.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.
 - To edit an existing policy, click the **Edit Policy** link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to a category using the **Category** pop-up menu.
- 7. Choose a trigger from the Triggered By pop-up menu.
- 8. Specify how often you want clients to execute the policy using the Execution Frequency pop-up menu.
- 9. Click the **Scope** tab and assign computers or user groups to the scope.
- 10. Click the **Advanced** tab and select the **Self Heal Packages** checkbox.

11. Click Save.

i) neral	Scope	Self Service	😻 Packages	Scripts	Printers	Dock	Accounts	(U) Reboot	Advanced
Mai	ntenance								
🗆 U	pdate Inven	itory	🗆 L	Ipdate Prebi	ndings		Flush System	Caches	
R	eset Compu	iter Names	E F	ix Permissio	ns		Flush User Ca	ches	
🗹 S	elf Heal Pac	kages	E F	ix ByHost Fi	es		Verify Startup	Disk	
S	Spotli	le by name: ght Search: for Process:					_	Update Locat Kill if found	e DB
		Command:							
► Mana	agement Fr	amework Optio	ns – Not requii	ed for client	s running 7.3	or later			incel) (Save

Client computers execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To enforce Self Healing using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, locate the clients that you want to enforce Self Healing and select the checkbox next to each one.
- 3. Click the **Advanced** tab.
- 4. Select the **Self Heal Packages** checkbox and click **Go**.

To view Self Healing logs:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Logs** tab.
- 3. Click the **Self Healing Logs** link to display a list of Self Healing logs.
- 4. Click the **View Logs** link across from a log to see additional information.

Remote Control

Overview of Remote Control

The Casper Suite integrates screen sharing through the Casper Remote application. Casper Remote automates the tools built into Mac OS X to allow screen sharing sessions between computers.

Screen sharing sessions are tunneled through an SSH connection. These sessions are centrally authenticated and logged and do not require special software to be installed on client computers. For added security, you can configure the screen sharing server to run only for the duration of the session.

Requirements

To share the screen of another computer, the computer you want to share screens with must meet the following requirements:

- SSH is activated on the computer.
- The computer is in the JAMF Software Server (JSS) and is associated with a valid SSH account.
- The computer is able to contact the JSS at the DNS name or IP address specified in Casper Remote's Preference window.
- In addition, you must use an account with screen sharing privileges to log in to Casper Remote.

Using Screen Sharing

The instructions in this section explain how to share the screen of another computer on your network.

To share the screen of another computer:

- 1. Open Casper Remote.
- 2. Enter credentials for a JSS user account that has screen sharing privileges and then click **OK**.
- 3. In the **Computers** list, select the computer whose screen you want to share. (You do not need to select the checkbox next to the name of the computer.)

Computers Packages	Scripts Printers	Dock Accourt	nts Reboot Adv	anced
Computers				
Computer Name	User Name	Asset Tag	IP Address	
All Computers				
ENGL-CSG-147			10.10.12.120	
ENGL-CSG-233			10.10.12.120	
ENGL-LIB-268			10.10.12.120	
ENGL-SCH-163			10.10.12.120	
GEOG-CS-259			10.10.12.120	
GEOG-SPS-164			10.10.12.120	
GEOG-SPS-212			10.10.12.120	_
GEOG-SPS-274			10.10.12.120	- 11
GEOG-SPS-295			10.10.12.120	_
HIST-CSG-125			10.10.12.120	- 11
HIST-LIB-251			10.10.12.120	
HIST-LIB-284			10.10.12.120	× ×
HIST-SCH-178			10.10.12.120	Ŧ

4. Click the Screen Share button in the toolbar.

Depending on your screen sharing privileges, users may need to accept a screen sharing request before you can share their screen.

How Screen Sharing Works

Casper Remote takes the following steps to create a secure connection for screen sharing:

- 1. Casper Remote creates an SSH connection to the client computer.
- Casper Remote checks the computer for the most current version the following file: /usr/sbin/jamf

If the file is out of date or missing, Casper Remote installs the most current version over secure copy or HTTP depending on your preference settings.

3. Casper Remote checks the computer for the following file and verifies that it contains the correct information:

/Library/Preferences/com.jamfsoftware.jss.plist

If the file does not exist or contains incorrect information, Casper Remote automatically creates the file.

- 4. The jamf binary verifies that the account used to initiate the connection has screen sharing privileges.
- 5. If necessary, the user is prompted to accept the screen sharing session.
- 6. The JSS logs the connection.
- 7. Casper Remote starts the Screen Sharing service.
- 8. Casper Remote creates a temporary account with limited privileges and uses it for the screen sharing session.
- 9. Casper Remote starts the Screen Sharing application and connects to the computer over an SSH connection.
- 10. When the Screen Sharing window is closed, Casper Remote deletes the temporary account, stops the screen sharing service if it was started, and logs out of the SSH connection.

If the SSH connection is terminated before these tasks take place, a launch daemon performs them within 60 seconds.

Settings and Security Management

Managed Preferences

Managed Preferences let you specify the value for each key in a domain. These settings are stored in the directory service node for each account or client computer.

The JAMF Software Server (JSS) reads Managed Preference templates from manifest files bundled with the JSS. You can also upload manifest, or PLIST, files to create new Managed Preferences or import manifests from the Manifest Destiny project hosted at <u>http://code.google.com/hosting/</u>.

Managed Preferences are assigned to computers and users using Managed Preference Profiles. This allows you to change the scope of Managed Preferences or disable a large number of Managed Preferences quickly.

Managed Preferences can be applied at the following levels:

- User-level enforced
- User-level every login
- User-level at next login only
- System-level enforced
- Unmanaged

If you've applied Managed Client Extension settings (MCX) in Apple's Workgroup Manager, you may be familiar with the following levels:

- Always
- Often
- Once
- Always (Applied to a computer object)
- Unset

The following table shows each level, its Workgroup Manager counterpart, whether it requires a custom application to be observed, and how it is applied.

Casper Suite Managed Preference Levels	Workgroup Manager Managed Preference Levels	Requires Application Level Support	Applied At
User-level enforced	Always	Yes	Login with a login hook
User-level every login	Often	No	Login with a login hook
User-level at next login only	Once	No	Login with a login hook
Computer-level enforced	Always (Applied to a computer object)	Yes	Reboot with a startup script
Unmanaged	Unset	No	Login or reboot

This section explains how the Casper Suite's Managed Preferences may affect MCX settings from thirdparty providers. It also explains domains, keys, and values as they relate to Managed Preferences.

This section also includes instructions on how to do the following:

- Enable Managed Preferences
- Create a Managed Preference Profile
- Create a Managed Preference from a template
- Duplicate a Managed Preference
- Upload a manifest or PLIST file
- Import a Managed Preference from Manifest Destiny
- Create a Managed Preference manually

Compatibility with Third-Party MCX Providers

In some cases, Managed Preferences from the Casper Suite can interfere with or be interfered with by MCX settings from a third-party provider. Tested third-party providers include:

- Open Directory (Built-in binding)
- Active Directory (Built-in binding)
- Likewise
- ADmitMac
- Centrify

The following table shows how Managed Preferences (in Mac OS X 10.6 and later) affect MCX settings from third-party providers.

	Open Directory	Active Directory	Likewise	ADmitMac	Centrify
Local Home	Works together	Works together	Works together	Works together	Works together
Network Home	Works together	Works together	n/a	Works together	n/a
Mobile Home	Nothing applied from JSS	Works together	Nothing applied from JSS	Nothing applied from JSS	Nothing applied from JSS

Understanding Domains, Keys, and Values

Most applications written for Mac OS X store preferences in a property list or PLIST file. Each PLIST file represents a domain that contains multiple keys and values.

For example, each user has a PLIST file that determines the appearance of their Dock. This file is located in the user home directory at:

/Library/Preferences/com.apple.dock.plist

In this example, the domain for the file is:

com.apple.dock

The key that determines if the Automatically hide and show the Dock feature is enabled is:

autohide

There is a command-line utility called Defaults that allows you to read and write PLIST files. Apple's Developer Tools also contain an application called Property List Editor that allows you to view and edit PLIST files.

Using the information from the previous example, the preferences settings on your account can be displayed by executing the following command from Terminal:

defaults read com.apple.dock autohide

This command returns the value of the autohide key for the com.apple.dock domain.

If the command returns a "0", the feature is not enabled. If the command returns a "1", the feature is enabled.

To enable Managed Preferences:

1. Log in to the JSS with a web browser.

- 2. Click the **Settings** tab.
- 3. Click the **Computer Management Framework Settings** link.
- 4. To apply Managed Preferences at computer level:
 - a. Click the Startup Item tab.
 - b. Select the Create startup item checkbox.
 - c. Select the Apply Computer Level Enforced Managed Preferences checkbox.
- 5. To apply Managed Preferences at user level:
 - a. Click the Login/Logout Hooks tab.
 - b. Select the Create login and logout hooks checkbox.
 - c. Select the Apply User Level Managed Preferences checkbox.
- 6. Click the **Save** button.

To create a Managed Preference Profile:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the Managed Preferences link.
- 4. Click the **Create Managed Preference Profile** button.
- 5. Enter a display name for the profile.
- 6. Select **Yes** to enable it.

dit Profile		
<i>i</i> General	Scope Settings	
I	isplay Name: My Managed Preference Enabled: Yes 💿 No 🔘	Profile
		(Cancel) (Save)

7. Click the **Scope** tab and assign computers or user groups to the scope.

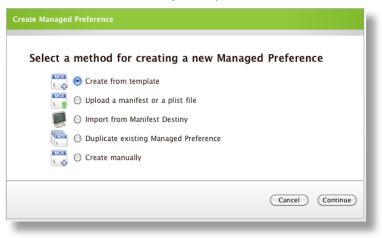
1	10	Local L
General	Scope	Settings
Ass	ign this Pr	ofile to these Computers
	5	ofile to these Computers II Computers

- 8. Click the **Settings** tab.
- 9. Select the checkbox across from the preferences you want to include in the profile and click the **Save** button.

0	T.					
eneral	Scope	Settings				
com	apple.dock					
	Setting		App Domain	Key Name	Value	
	ing Chackh	ox Disabled	com.apple.dock	autohide-immutable	false	
Hid	ing checkb					
Hid	ing checkb					
Hid	ing checkb					

To create a Managed Preference from a template:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the Managed Preferences link.
- 4. Click the **Create Managed Preference** button.
- 5. Select the **Create from template** option and click the **Continue** button.



6. Click the disclosure triangles to locate the Managed Preference you want to create and click the **Create** link across from it.

	Managed Pre			
	Search Mar	aged Preference Templates:		
.Glo	balPreferences.ByHost			
.Glo	balPreferences			
com	.adobe.acrobat.90.sh			
com	.adobe.Acrobat.Pro_x86_9.0			
com	.apple.dashboard			
• -				
com	.apple.desktop			
com	.apple.dock			
	Name	Key Name	Value	
0	Hiding	autohide	false	Create
0	Hiding Checkbox Disabled	autohide-immutable	false	Create
0	Changes Disabled	contents-immutable	false	Create
	Largest Tile Size			

- 7. Choose a level at which to apply the preference from the **Apply Setting To** pop-up menu.
- 8. Specify a value for the preference.

Edit Setting	g: Hiding Ch	eckbox Disabled	
0	1	1111	
General	Definition	Profiles	
Dis	play Name:	Hiding Checkbox Disabled	
D	escription:	Set to true to disable the Automatically Hide and Show checkbox.	
Apply	Setting To:	User Level Enforced	
		/Library/Preferences/com.apple.dock autohide-immutable	
	Value:	True 🔘 False 💿	
			Cancel Save
-	_		

- 9. Click the **Profiles** tab and select the checkbox across from the profile(s) you want to assign the preference to.
- 10. Click the **Save** button.

To duplicate a Managed Preference:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.

- 3. Click the Managed Preferences link.
- 4. Click the **Create Managed Preference** button.
- 5. Select the **Duplicate existing Managed Preference** option and click the **Continue** button.

Create Managed Preference
Select a method for creating a new Managed Preference
Create from template
Upload a manifest or a plist file
💓 🔘 Import from Manifest Destiny
💮 💿 Duplicate existing Managed Preference
Create manually
Cancel Continue

6. Click the **Duplicate** link across from the preference you want to duplicate.

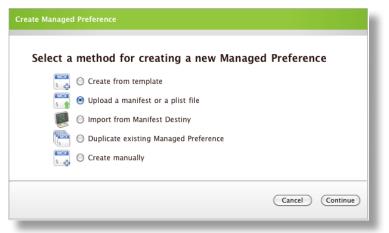
		Search MCX Settings:				
om	.apple.dock					
	Name	Key Name	Value			
0	Hiding Checkbox Disabled	autohide-immutable	false	Duplicate		

- 7. Make changes if necessary.
- 8. Click the **Save** button.

To upload a manifest or PLIST file:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the Managed Preferences link.
- 4. Click the **Create Managed Preference** button.

5. Select the **Upload from a manifest or .plist file** option and click the **Continue** button.



6. Click the **Choose File** button.

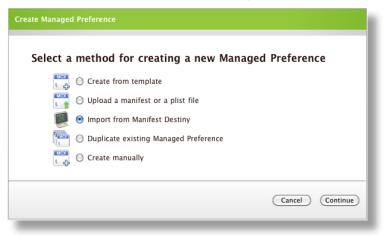
	Choose MCX Setting Template
ļ	Upload manifest or plist
(Click the Choose File button, select a valid manifest or plist file and click Upload Selected File.
	Plist files must be in XML format. If the plist you are trying to upload does not work, you may need to convert it from binary format using the following command:
	/usr/bin/plutil -convert xmll /path/to/file.plist
	Choose File no file selected Upload Selected Template
	Cancel

- 7. Select the file you want to upload, and then click the **Upload Selected Template** button.
- 8. Click Save.

To import a Managed Preference from Manifest Destiny:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the Managed Preferences link.
- 4. Click the **Create Managed Preference** button.

5. Select the Import from **Manifest Destiny** option and click the **Continue** button.



- 6. Click the disclosure triangles to locate the Managed Preference you want to create, and click the **Create** link across from it.
- 7. Choose a level at which to apply the preference from the **Apply Setting To** pop-up menu.
- 8. Specify a value for the preference.

Edit Setting	g: Enable Mi	Iltiple Libraries
() General	Definition	Profiles
		Enable Multiple Libraries Allows the use of multiple libraries.
Apply	Setting To:	User Level Enforced
		/Library/Preferences/com.insidersoftware.fontagentpro.fontmanager
	Key: Value:	o ableMultipleLibs
		(Cancel) (Save)

- 9. Click the **Profiles** tab and select the checkbox across from each profile you want to assign the preference to.
- 10. Click the **Save** button.

To create a Managed Preference manually:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the Managed Preferences link.
- 4. Click the Create Managed Preference button.

5. Select the **Create manually** option and click the **Continue** button.



- 6. Enter a display name for the preference.
- 7. (Optional) Enter a description of the preference.

Edit Setting		
() General	Definition Profiles	
Dis	lay Name: Manually Created Autohide for Dock	
D	escription:	
	Setting To: Make This Preference Unmanaged	
Apply		
	Domain: /Library/Preferences/ Key:	
	Value:	
	Value.	
	(Cancel) (Sat	ve

8. Click the **Definition** tab and select **Allowed or Not Allowed** for each level.

Note: Most custom settings only work when they are applied at user level or user-level enforced. Managed Preferences applied at system-level enforced require applications be custom written for them.

- 9. Enter the domain. For example, "com.apple.dock".
- 10. Enter the key name. For example, "autohide".
- 11. Choose a key type from the **Key Type** pop-up menu.
- 12. Click the General tab.
- 13. Choose a level at which to apply the preference from the **Apply Setting To** pop-up menu.

14. Specify a value for the preference.

🥡 General	Definition	Profiles	
Dis	play Name:	Manually Created Autohide for Dock	
D	escription:		
Apply	Satting To:	User Level At Every Login 🔷 0	
дрру		Library/Preferences/com.apple.dock	
		utohide	
	-	rue 🔘 False 💿	

- 15. Click the **Profiles** tab and select the checkbox across from each profile you want to apply the preference to.
- 16. Click the **Save** button.

Managing Mac OS X Configuration Profiles

You can use the JAMF Software Server (JSS) to create, install, update, and remove Mac OS X configuration profiles.

About Mac OS X Configuration Profiles

Mac OS X configuration profiles are XML files (.mobileconfig) that define groups of settings for computers and users. You create a configuration profile to apply to computers (computer-level) or users (user-level). Each level has a unique set of payloads and a few that are common to both. The settings are applied at the specified level when the profile is installed.

To install a configuration profile, you assign computers or users to its scope. Computer-level profiles are installed when computers in the scope contact the JSS. User-level profiles are installed when users in the scope log in to their computers with credentials for a directory account and a login hook is present.

Requirements

To install a Mac OS X configuration profile, you need:

- Computers with Mac OS X 10.7 or later
- An Apple Push Notification service (APNs) certificate uploaded to the JSS

See the "Apple Push Notification Service Certificate" section in "Configuring the Computer Management Framework" for more information.

- The following security options enabled in the JSS:
 - Certificate-based communication
 - Push notifications for Mac OS X 10.7 clients

See the "Security" section in "Configuring the Computer Management Framework" for more information.

- (For user-level profiles only) Client computers that are bound to a directory server Tested directory bindings include:
 - Active Directory
 - Open Directory
 - ADmitMac

See "Creating Directory Bindings" for more information.

 (For user-level profiles only) Login hooks configured in your environment
 See the "Login and Logout Hooks" section in "Configuring the Computer Management Framework" for more information on creating login hooks with the Casper Suite.

Creating and Installing Mac OS X Configuration Profiles

The JSS allows you to create configuration profiles using an interface similar to Apple's Profile Manager. When you are done creating the profile, you can install it by assigning computers or users to the scope.

Note: Some payloads and settings available in Profile Manager cannot be configured with the JSS.

Before creating a configuration profile, you should have basic knowledge of the payloads and settings that you can configure and how they affect devices. For detailed information, see Apple's Profile Manager Help documentation at:

http://help.apple.com/profilemanager/mac/10.7/#

To create and install a Mac OS X configuration profile using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the Configuration Profiles link.
- 4. Click the Add Profile button.
- 5. Select Create a Configuration Profile, and then click Continue.



6. Enter a display name and description for the profile.

General Scope	
General Mandatory	Identity Display Name
Not Configured Not Configured VPN Configured Certificate Not Configured Software Update Not Configured Software Update Not Configured Software Update Not Configured Not Configured	Display name of the profile (shown on the device) Profile Name 1 Description Brief explanation of the contents or purpose of the profile Level Apply to the User level or Computer level Computer Level 1

7. Choose "Computer-level" or "User-level" from the Level pop-up menu.

8. In the payloads list, select the payload that you want to add, and then click **Configure**. The payloads list displays the payloads that you can configure for the selected level.

dit Profile: Profile Name 1	
Ceneral Mandatory Configured Configured Configured	Configure Passcode Use this section to specify associde policies. (Users will not configuration profile is installed.)
VPN Nor Configured Configured Not Configured Directory Not Configured	(Configure)
Software Update Not Configured Restrictions Not Configured	
Login Items Not Configured	Cancel Save

- Use the options and fields in the main pane to configure settings for the payload.
 There are several variables that you can use to dynamically customize a payload. For more information, see the "Variables for Mac OS X Configuration Profiles" section.
- 10. To add additional payloads, repeat steps 8 and 9.
- 11. Click the **Scope** tab and assign computers or users to the scope.

Edit Profile	: Passcode	Payload
() General	Scope	
Assign t	his profile	to these Computers
🔵 Assigi	n to All Com	iputers
		: Computers s Add Individual Computers Add Departments Add Buildings
Limit thi	s profile to	the following Users
Add User G	iroup	
-		

12. Click Save.

Computer-level profiles are installed the next time computers in the scope contact the JSS. User-level profiles are installed the next time users in the scope log in to their computers.

Variables for Mac OS X Configuration Profiles

There are several variables that you can use to dynamically customize the payloads in a Mac OS X configuration profile.

Enter a variable into any text field in a payload to dynamically populate information about the computers to which you are distributing the profile. When the profile is installed, the variable is translated to the actual value stored in the JSS.

Variable	Computer Information
\$COMPUTERNAME	Computer name
\$UDID	UDID
\$SERIALNUMBER	Serial number
\$USERNAME	For a computer-level configuration profile, the user name stored in the computer's location information in the JSS
	For a user-level configuration profile, the user name for the user logging in
\$REALNAME	Real name
\$EMAIL	Email address
\$PHONE	Phone
\$POSITION	Position
\$ROOM	Room

Installing Mac OS X Configuration Profiles Created with Profile Manager

To install a Mac OS X configuration profile created with Profile Manager, you must upload the profile to the JSS, and then assign computers or users to the scope.

Note: Some payloads and settings configured with Profile Manager are not displayed in the JSS. Although you cannot view or edit these payloads, they are applied when the profile is installed.

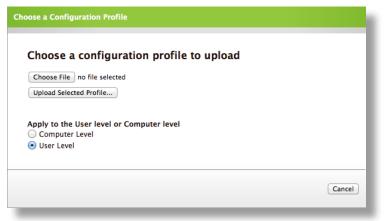
To install a Mac OS X configuration profile created with Profile Manager:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Configuration Profiles** link.
- 4. Click the **Add Profile** button.

5. Select Upload a Configuration Profile, and then click Continue.



6. Specify whether to apply the profile at computer or user-level by selecting **Computer Level** or **User Level**. Payloads that do not apply to the specified level are permanently removed from the profile.



- 7. Click **Choose File** and select the profile that you want to upload. Then, click **Upload Selected Profile**. The profile must have a .mobileconfig file extension.
- 8. Verify the display name for the profile and enter a description if desired. Then, click Save.
- 9. Click the Edit link across from the profile you uploaded.
- 10. If needed, use the payloads list to add or modify payloads.
- 11. Click the **Scope** tab and assign computers or users to the scope.

() General	Scope	
Assign t	his profile to these Computers	
O Assig	n to All Computers	
	n to Specific Computers mputer Groups Add Individual Computers Add Departments Add Buildings	
Limit thi	s profile to the following Users	

Computer-level profiles are installed the next time computers in the scope contact the JSS. User-level profiles are installed the next time users in the scope log in to their computers.

Updating Mac OS X Configuration Profiles

To update a Mac OS X configuration profile, use the JSS to add, modify, or remove payloads as needed.

Note: Some payloads and settings configured in Profile Manager are not displayed in the JSS.

To update a Mac OS X configuration profile:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Configuration Profiles** link.
- 4. Click the **Edit** link across from the profile.

Important: Choosing a new option from the Level pop-up menu permanently removes existing level-specific payloads.

- 5. Use the payloads list to add, modify, or remove payloads as needed.
- 6. Click Save.

Computer-level profiles are updated the next time computers in the scope contact the JSS. User-level profiles are updated the next time users in the scope log in to their computers.

Removing Mac OS X Configuration Profiles

To remove a Mac OS X configuration profile from a computer or for a user, remove the computer or user from the scope. When the profile is removed, all settings associated with the profile are also removed.

To remove a Mac OS X configuration profile:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Configuration Profiles** link.
- 4. Click the **Edit** link across from the profile.

5. Click the **Scope** tab and remove computers or users from the scope as needed.

() eneral	Scope	
Assign t	his profile	o these Computers
🔵 Assig	n to All Com	puters
	n to Specific	
Aug C0	inputer Group:	: Add Individual Computers Add Departments Add Buildings
		o computers in these Network Segments
nstall ti	his profile t	
nstall tl • Use P	his profile t Profile For Co	o computers in these Network Segments

6. Click Save.

Deleting Mac OS X Configuration Profiles

Deleting a Mac OS X configuration profile from the JSS removes the profile and its settings from all computers or users in the scope.

To delete a Mac OS X configuration profile from the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Configuration Profiles** link.
- 4. Click the **Delete** link across from the profile, and then click the **Delete** button to confirm.

Running Remote Commands for Mac OS X Computers

The JAMF Software Server (JSS) allows you to manage the security of Mac OS X computers by running the following commands:

- Remote Lock—Logs the user out of the computer, reboots the computer, and keeps the computer in a locked state. To unlock the computer, the user must enter a passcode specified by the administrator.
- Remote Unmanage—Makes the computer unmanaged. To manage the computer again, re-aquire it.
 See the "Acquiring Mac OS X Computers" section for instructions on how to acquire a computer.
- Remote Wipe—Permanently erases all data on the computer and deactivates it. To restore the computer to the original factory settings, you must enter a passcode specified by the administrator, reinstall the operating system, and then reboot the computer.

For detailed information on Mac OS X Lion Recovery, see the following Apple Knowledge Base article: <u>http://support.apple.com/kb/HT4718</u>

Note: Running a remote unmanage or remote wipe command on a computer does not remove the computer from the JSS or modify its inventory information.

You can also use the JSS to view the status of remote commands and cancel a remote command that is pending.

Requirements

To run remote commands for Mac OS X computers, you need:

- Computers with Mac OS X 10.7 or later and a Recovery Partition
- An Apple Push Notification service (APNs) certificate uploaded to the JSS

See the "Apple Push Notification Service Certificate" section in "Configuring the Computer Management Framework" for more information.

- The following security options enabled in the JSS:
 - Certificate-based communication
 - Push notifications for Mac OS X 10.7 clients

See the "Security" section in "Configuring the Computer Management Framework" for more information.

Running a Remote Command

You can run a remote command for a Mac OS X computer by using the icons displayed when viewing a Computer Details report.

To run a remote command for a Mac OS X computer:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab and perform a simple or advanced computer search. See the "Performing a Simple Computer Search" or "Performing an Advanced Computer Search" section in "Searching Computers" for complete instructions.
- 3. Find the computer that you want to run the remote command, and click the **Details** link across from it.
- 4. Next to the **MDM Managed** field, click the icon for the command you want to run.

The 🔛 icon runs the remote lock command.

The 🚫 icon runs the remote unmanage command.

The 🧊 icon runs the remote wipe command.

110	ils		
		O Computer Information	
	Hardware MacBook (13-inch Aluminum,	Computer Name: Example	
	Late 2008)	Report Date: 02/29/2012 at 11:45 AM	
6	Operating System	Last Contact Time: 02/29/2012 at 11:45 AM	
ł	Mac OS X 10.7.2	IP Address:	
	Location	/usr/sbin/jamf version:	
L	Location	MDM Managed: Yes 🔒 🛇 單	
		Managed: true	
	Purchasing	JSS Computer ID:	
-		Asset Tag:	
	Extension Attributes	Bar Code 1:	
et:		Bar Code 2:	
J	Storage 2 Hard Drives		
	Peripherals		
7	0 Peripherals		
1	Synced Mobile Devices 0 Mobile Devices		
	Computer Groups 2 Computer Groups		
	Licensed Software 0 Licensed Software Titles		
	Applications		

5. Follow the onscreen instructions to configure the rest of the command.

The remote command runs on the computer the next time the computer contacts the JSS.

Viewing the Status of Remote Commands

The JSS allows you to view the status of remote commands for a Mac OS X computer.

To view the status of remote commands for a Mac OS X computer:

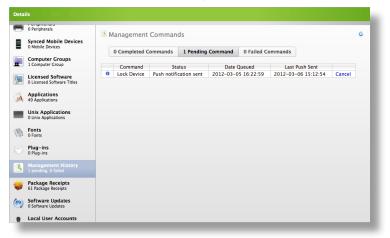
- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab and perform a simple or advanced computer search. See the "Performing a Simple Computer Search" or "Performing an Advanced Computer Search" section in "Searching Computers" for complete instructions.
- 3. Find the computer that you want to view commands for, and click the **Details** link across from it.
- 4. Click Management History in the list of categories.
- 5. Use the **Completed Commands**, **Pending Commands**, and **Failed Commands** tabs to view the status of remote commands.

Canceling a Remote Command

The JSS allows you to cancel a remote command if the command is in a pending state.

To cancel a remote command for a Mac OS X computer:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab and perform a simple or advanced computer search. See the "Performing a Simple Computer Search" or "Performing an Advanced Computer Search" section in "Searching Computers" for complete instructions.
- 3. Find the computer that you sent the command to, and click the **Details** link across from it.
- 4. Click Management History in the list of categories.
- 5. Click the **Pending Commands** tab.
- 6. Find the remote command that you want to cancel, and click the **Cancel** link across from it.



7. When prompted, click **OK** to confirm the cancelation.

Running Scripts

You can run virtually any type of script on client computers. Some of the most commonly used scripts are AppleScript, Perl, and Bash.

Scripts can be run at two priorities:

- **Run before**—Runs the script at the beginning of the policy or Casper Remote session.
- **Run after**—Runs the script just before the end of the policy or Casper Remote session.

By default, each script is passed three parameters:

- Target Drive
- Username (at login or logout)
- Computer Name

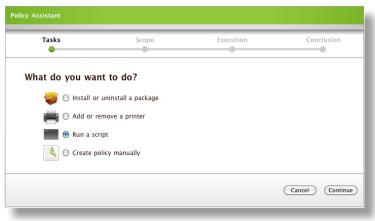
You can pass up to eight additional parameters when running the script.

Before you run a script on a remote computer, you must add the script to the JAMF Software Server (JSS) using Casper Admin.

The instructions in this section explain how to run a script using a policy or Casper Remote.

To configure a policy to run a script using the Policy Assistant:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Policies** link.
- 4. Click the Create Policy button in the toolbar.
- 5. Select the Run a script option and click the Continue button.



- 6. If you want to specify parameters for the script:
 - a. Follow the onscreen instructions until you get to the Verify Plan pane.
 - b. Click **Options**, and then click **Specify Parameters Values**.

(
/erify Plan			
his policy will perform the followi	ing actions. To change ar	n action, click the Options lin	k across from it.
	Plan		
disableBluetooth.sh			Options V
Add Another Script			
add ynforner beriptin			

c. Specify any parameters you want to pass to the script, and then click the **Return to Scripts** button.

olicy Assistant			
Tasks	Scope	Execution	Conclusion
Parameters for A	ccounts.sh		
I	Parameter 1: \$MountPoint		
I	Parameter 2: \$ComputerName	2	
I	Parameter 3: \$Username		
I	Parameter 4:		
I	Parameter 5:		
I	Parameter 6:		
I	Parameter 7:		
I	Parameter 8:		
I	Parameter 9:		
Pa	rameter 10:		
Pa	rameter 11:		
			(Return to Scripts)

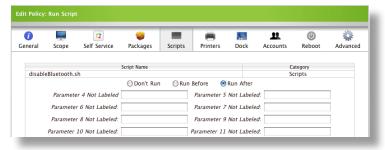
- 7. Follow the onscreen instructions to configure the rest of the policy.
- 8. If you want to set a priority for the script:
 - a. Click the Edit Manually button on the Conclusion pane.
 - b. Click the Scripts tab and select the Run After or Run Before option for the script.
 - c. Click the Save button.

Clients execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To manually configure a policy to run a script:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.

- 3. Click the **Policies** link.
- 4. Create a policy or edit an existing one.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.
 - To edit an existing policy, click the **Edit Policy** link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to a category using the **Category** pop-up menu.
- 7. Choose a trigger from the Triggered By pop-up menu.
- 8. Specify how often you want clients to execute the policy using the **Execution Frequency** pop-up menu.
- 9. Click the **Scope** tab and assign computers or user groups to the scope.
- 10. Click the **Scripts** tab and click the **Add Script** link.
- 11. Locate the script you want to run in the list of scripts and select the **Run Before** or **Run After** option.



- 12. In the parameter text fields, specify any parameters you want to pass to the script. Any parameter labels entered in Casper Admin are displayed on this here.
- 13. Click the **Add Script(s)** button.
- 14. Click Save.

Clients execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To run a script using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, locate the computers you want to run the script on and select the checkbox next to each one.
- 3. Click the Scripts tab.
- 4. In the Scripts list, locate the script you want to run and select the checkbox next to it.

5. Specify whether you want to run the script by selecting the **At Beginning** or **At End** option.

···· 6	Filter Scripts (8)
w Window Screen Share Overri	ide Defaults Refresh Data
Fasks	
🔳 Run script setAirPort.sh	Computers Packages Scripts Printers Dock Accounts Reboot Advanced
elected Computers	
MyCompany0004	Scripts - 1 Selected
	v Scripts
	✓ setAirPort.sh
	turnOffAirport.sh
	No Description
	Options for setAirPort.sh
	At Beginning At End
	<not specified=""> <not specified=""></not></not>
	<not specified=""> <not specified=""></not></not>
	<not specified=""> <not specified=""></not></not>
	<not specified=""> <not specified=""></not></not>
	<not specified=""> <not specified=""> <not specified=""></not></not></not>

- 6. Enter any parameters you want to pass to the script.
- 7. Any parameter labels entered in Casper Admin are displayed here.
- 8. Click Go.

Once these steps are complete, Casper Remote runs the script on each computer by:

- 1. Logging in to each computer using an SSH connection.
- 2. Verifying the computer's identity using the MAC address.
- 3. Running the script(s).
- 4. Logging out of the SSH connection.

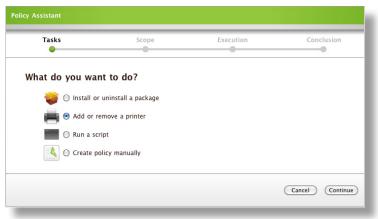
Managing Printers

Before you add or remove a printer from a remote computer, you must add the printer to the JAMF Software Server (JSS) using Casper Admin.

The instructions in this section explain how to add and remove a printer using a policy or Casper Remote.

To configure a policy to add or remove a printer using the Policy Assistant:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Click the **Create Policy** button in the toolbar.
- 5. Select the **Add or remove a printer** option and click the **Continue** button.



- 6. If you want to remove a printer:
 - a. Follow the onscreen instructions until you get to the Verify Plan pane.
 - b. Click Options, and then click Remove Printer from Computer.
 - c. Click Continue.

If you want to add a printer, skip this step.

7. Follow the instructions on each pane to configure the rest of the policy.

Clients execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To manually configure a policy to add or remove a printer:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the Policies link.

- 4. Create a policy or edit an existing one.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.
 - To edit an existing policy, click the Edit Policy link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to a category using the **Category** pop-up menu.
- 7. Choose a trigger from the **Triggered By** pop-up menu.
- 8. Specify how often you want clients to execute the policy using the **Execution Frequency** pop-up menu.
- 9. Click the **Scope** tab and assign computers or user groups to the scope.
- 10. Click the **Printers** tab and click the **Add Printer** link.
- 11. Locate the printer and choose **Install** or **Delete** from the **Action** pop-up menu across from it.

Edit Policy: Add Printer								
Scope	Self Service	e	Scripts	Printers	No.		Beboot	Advanced
Name		URI		N	lodel		Actio	'n
Printer1 lpd://10.10.10.10/			Generic PostScript Printer			Install 💠		
r2	lpd://10.	10.10.14/		Generic Pos	tScript Prin	ter	Nothing	•
			Add Pri	inter(s)				
							Ca	ncel Save
	Scope Name '1	Scope Self Service	Scope Self Service Packages	Scope Self Service Packages Scripts Name URI Ind://10.10.10.10/ Ind://10.10.10.14/ Ind://10.10.10.14/	Scope Self Service Packages Scripts Printers	Image: Scope Self Service Packages Scripts Printers Dock Name URI Model 1 Ipd://10.10.10.10/ Generic PostScript Printers Ceneric PostScript Printers 2 Ipd://10.10.10.14/ Generic PostScript Printers Ceneric PostScript Printers	Scope Self Service Packages Scripts Printers Dock Accounts Name URI Model Accounts	Scope Self Service Packages Scripts Printers Dock Accounts Reboot Name URI Model Accio Accio Install 1 Ipd://10.10.10.10/ Generic PostScript Printer Install 2 Ipd://10.10.10.14/ Generic PostScript Printer Nothing

- 12. Click the Add Printer(s) button.
- 13. If you want to make the printer you are adding the default printer, select the **Make Default** option across from it.
- 14. Click the **Save** button.

Clients execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To add or remove a printer using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, select the checkbox next to each computer you want to add the printer to or remove it from.
- 3. Click the **Printers** tab.
- 4. Select the checkbox next to the printer you want to add or remove.

5. Select the Add or Delete option below the list.

00	Casper Remote (1 Computer Sel	ected)	
	e e	Filter Pr	inters 🛞
New Window Screen Share Override	Defaults Refresh Data	Titter H	
▼ Tasks			
🚔 Add Printer Printer 1	Computers Packages Scripts Print	ers Dock Accounts Reboo	t Advanced
V Selected Computers		Cia Dock Accounts Rebot	n Auvanceu
MyCompany0004	Printers - 1 Selected		
	▼ Printers		
	Printer 1	Generic PostScript Printer	Add
	Options for Printer 1		
	Options for Printer 1		
	Add Delete Make Default		
		Save as Schedul	e Go
_			

- 6. If you want to make the printer you are adding the default printer, select the Make Default option.
- 7. Click Go.

Once these steps are complete, Casper Remote adds or removes the printer from each computer by:

- 1. Logging in to each computer using an SSH connection.
- 2. Verifying the computer's identity using the MAC address.
- 3. Adding or removing the printer.
- 4. Logging out of the SSH connection.

Managing Dock Items

Before you add an item to the Dock on a remote computer, the item must be added it to the JAMF Software Server (JSS) using Casper Admin and displayed as a deployable object.

The instructions in this section explain how to add and remove Dock items using a policy or Casper Remote.

To add or remove a Dock item using a policy:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Policies** link.
- 4. Create or edit the policy.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.
 - To edit an existing policy, click the **Edit Policy** link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to a category using the **Category** pop-up menu.
- 7. Choose a trigger from the Triggered By pop-up menu.
- 8. Specify how often you want clients to execute the policy using the Execution Frequency pop-up menu.
- 9. Click the Scope tab and assign computers or user groups to the scope.
- 10. Click the **Dock** tab and click the **Add Dock Item** link.
- 11. Locate the item and choose an action from the **Action** pop-up menu:
 - a. If you want to add the item, choose **Add to Beginning** or **Add to End** depending on where you want the item to appear in the Dock.

() General	Scope	Self Service	🥮 Packages	Scripts	Printers	Dock	Accounts	(U) Reboot	Advanced
N	lame	Туре		Path			,	Action	
iCal	Cal App		/Applications/iCal.app/				Add To End 🔷		
iChat		App	/Applications/iChat.app/				Do Nothing		
iTunes	5	Арр	/Applications/iTunes.app/				Do Nothing		
				Add Dock	ttem(s)				

- b. If you want to remove the item, choose **Remove**.
- 12. Click the Add Dock Item(s) button.

13. Click Save.

Clients execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To add or remove a Dock item using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, locate the computers you want to add or remove the Dock items from and select the checkbox next to each one.
- 3. Click the **Dock** tab and select the checkbox next to the Dock item.

Tasks							
Selected Computers MyCompany0004	Computers Packages Scripts Printers Dock Accounts Reboot Advanced	1					
MyCompany0004	Dock Items						
	Name Path to item Action						
	Downloads file://localhost/Users/Erin/Downloads/ MicrosoftOutlook file://localhost/Applications/Microsoft%200ffice%202011/Mi						
	Safari file://localhost/Applications/Safari.app/						
	Options for Downloads Dock Item						
	Install at Beginning of Dock (*) Install at End of Dock Remove from Dock						

- 4. Specify what you want to do with the item by selecting the **Install at Beginning of Dock**, **Install at End of Dock**, or **Remove from Dock** option.
- 5. Click **Go**.

Once these steps are complete, Casper Remote adds or removes the Dock item by:

- 1. Logging in to each computer using an SSH connection.
- 2. Verifying the computer's identity using the MAC address.
- 3. Adding or removing the Dock item.
- 4. Logging out of the SSH connection.

Managing Local Accounts

You can manage local user accounts remotely by performing the following management tasks:

- Creating a new account
- Deleting an existing account
- Resetting the password for an existing account
- Resetting the password for the management account

The instructions in this section explain how to perform these tasks using a policy or Casper Remote.

To create a local account using a policy:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Create or edit the policy.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.
 - To edit an existing policy, click the **Edit Policy** link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to a category using the **Category** pop-up menu.
- 7. Choose a trigger from the Triggered By pop-up menu.
- 8. Specify how often you want clients to execute the policy using the **Execution Frequency** pop-up menu.
- 9. Click the **Scope** tab and assign computers or user groups to the scope.
- 10. Click the **Accounts** tab and click the **New Account** link.

11. Enter information for the new account and click the **Add User** button.

() eneral	Scope	Self Service	e Packages	Scripts	Printers	Dock	Accounts	() Reboot	🔆 Advanced
				Create N	ew User				
				Name: Phin	neas Newborn				
					neasnewborn				
					•••••				
					•••••				
			Passwor	d Hint: optional)		1			
			Home Dir	ectory: /Us	ers/phineasne	wborn/n			
					orary/User Pict				
			MIC Allo	w user to ac	dminister con	nputer			
				Cancel	Add User				
								G	ncel Save

12. Click Save.

Clients execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To create a local account using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, locate the computers you want to add the account to and select the checkbox next to each one.
- 3. Click the **Accounts** tab.
- 4. Click the **Create** button.
- 5. Enter information for the new account in the dialog that appears, and then click **OK**.

Name:	Phineas Newborn
Short Name:	phineasnewborn
Password:	•••••
Verify:	
Password Hint: (Optional)	
Home Directory:	/Users/phineasnewborn/
Allow use	r to administer this computer
	Cancel

6. Click **Go**.

Tasks Create user phineasnewborn (p	Computers Packages Scripts Printers	Dock Accounts Reboot Advanced		
Selected Computers	Create Accounts/Reset Passwords/Delete Accounts	Change Management Account Password		
	Username Action phineasnewborn Create	Do Not Change Randomly Generated Passwords Number of Characters: 8 Change To:		
	Directory Bindings	Open Firmware/EFI Password		
	Directory Type	Set Open Firmware/EFI Password Mode: none : Password: Verify:		

Once these steps are complete, Casper Remote creates the account by:

- 1. Logging in to each computer using an SSH connection.
- 2. Verifying the computer's identity using the MAC address.
- 3. Creating the account.
- 4. Logging out of the SSH connection.

To delete a local account using a policy:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Create or edit the policy.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.
 - To edit an existing policy, click the **Edit Policy** link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to a category using the **Category** pop-up menu.
- 7. Choose a trigger from the Triggered By pop-up menu.
- 8. Specify how often you want clients to execute the policy using the Execution Frequency pop-up menu.
- 9. Click the **Scope** tab and assign computers or user groups to the scope.
- 10. Click the **Accounts** tab.
- 11. Click the **Delete Existing Account** link.
- 12. Enter the short user name for the account.

Choose whether to archive or delete the user's home directory, and then click OK.
 If you choose to archive the home directory, specify where you want to store the archive.

() General	Scope	Self Service	🥪 Packages	Scripts	Printers	Dock	Accounts	() Reboot	Advanced
		ſ		Delete Loca	al Account				
			Delete User V	/ith Name:	mikeiones		1		
			O Archive Ho	me Directo	ry				
				eted Users/m					
			Permanent	ly Delete H	ome Directo	у			
				Cancel) (OK)				
					_				
								Ca	ncel Save

14. Click Save.

Clients execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To delete a local account using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, locate the computers you want to delete the account from and select the checkbox next to each one.
- 3. Click the **Accounts** tab.
- 4. Click the **Delete** button.
- 5. Enter the short user name for the account that you want to delete.
- Specify whether to archive or delete the user's home directory, and then click OK.
 If you choose to archive the home directory, specify where you want to store the archive.

Delete User with Name:	phineasnewborn
O Archive Home Direc	ctory
/Users/Deleted U	sers/phineasnev
 Permanently Delete 	Home Directory
Cancel	ОК
Cancer	

7. Click Go.

00	Casper Remote (1 Computer Selected)
New Window Screen Share Override	Defaults Refresh Data	Q. (S)
Y Tasks ▲ Tasks Selected Computers MyCompany0004	Computers Packages Scripts Printers Create Accounts/Reset Passwords/Delete Accounts Username Action phineasnewborn Delete Create Reset Password Delete –	Dock Accounts Reboot Advanced Change Management Account Password •
	Directory Type	Open Firmware/EFI Password Set Open Firmware/EFI Password Mode: none : Password: Verify: Save as Schedule Co

Once these steps are complete, Casper Remote deletes the account by:

- 1. Logging in to each computer using an SSH connection.
- 2. Verifying the computer's identity using the MAC address.
- 3. Deleting the account.
- 4. Logging out of the SSH connection.

To reset the password for a local account using a policy:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Create or edit the policy.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.
 - To edit an existing policy, click the Edit Policy link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to category using the **Category** pop-up menu.
- 7. Choose a trigger from the Triggered By pop-up menu.
- 8. Specify how often you want clients to execute the policy using the Execution Frequency pop-up menu.
- 9. Click the **Scope** tab and assign computers or user groups to the scope.
- 10. Click the **Accounts** tab.
- 11. Click the **Reset Password** link.
- 12. Enter the short user name and password for the account.

13. Type the password again to verify it, and then click **OK**.

Edit Policy	: Reset Pas	sword for Local	Account						
() General	Scope	CC Self Service	🤪 Packages	Scripts	Printers	SS Dock	Accounts	() Reboot	🔅 Advanced
			Short N Passw	Password o ame: oscar vord: ••••• erify: ••••• Cancel		ount			
								Ca	ncel) (Save)

14. Click Save.

Clients execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To reset the password for a local account using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, locate the computers that have the account and select the checkbox next to each one.
- 3. Click the **Accounts** tab.
- 4. Click the **Reset Password** button.
- 5. Enter the short user name and password for the account.
- 6. Type the password again to verify it, and then click **OK**.
- 7. Click Go.

Fasks				
Reset password for phineasne Selected Computers MyCompany0004	Computers Packages Scripts Printers	Dock Accounts Reboot Advanced		
	Create Accounts/Reset Passwords/Delete Accounts	Change Management Account Password Do Not Change Randomly Generated Passwords		
	Username Action phineasnewborn Reset			
		Number of Characters: 8		
		Change To:		
	Create Reset Password Delete -	Open Firmware/EFI Password		
	Directory Bindings			
	Directory Type	Set Open Firmware/EFI Password		
		Mode: none +		
		Password:		
		Verify:		
		verny:		

Once these steps are complete, Casper Remote resets the password by:

1. Logging in to each computer using an SSH connection.

- 2. Verifying the computer's identity using the MAC address.
- 3. Resetting the password.
- 4. Logging out of the SSH connection.

To reset the password for the management account using a policy:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Policies** link.
- 4. Create or edit the policy.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.
 - To edit an existing policy, click the Edit Policy link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to a category using the **Category** pop-up menu.
- 7. Choose a trigger from the Triggered By pop-up menu.
- 8. Specify how often you want clients to execute the policy using the **Execution Frequency** pop-up menu.
- 9. Click the **Scope** tab and assign computers or user groups to the scope.
- 10. Click the **Accounts** tab.
- 11. To randomly generate a new password, select the **Randomly Generated Passwords** option and specify how many characters you want the password to have.
- 12. To assign a password, select the **Change To** option and enter and verify the new password.
- 13. Click Save.

() eneral	Scope	Self Service	Sackages	Scripts	Printers	Dock	Accounts	() Reboot	Advanced
enerai	scope	Self Selvice	Fackages	scripts	Finters	DUCK	Accounts	Rebool	Auvanceu
Cre	eate Accoun	ts/Reset Passwo	ords/Delete A	ccounts	Change	Manageme	ent Account Pa	ssword	
	Username	Action	Edit Re	move	0	Do Not Ch	ange		
	There ar	e no changes to	local accounts	i.	0	Randomly	Generated Pass	swords	
	ere u					Number of	Characters: 8		
N	lew Account I	Reset Password De	lete Existing Acc	ount	•	change ro			
	New Account Reset Password Delete Existing Account								
Di	irectory Bind	lings			Open Fir	mware/EFI	Password		
Di		l ings Directory Service		Bind			Password vare/EFI Passw		
Di	N	Directory Service ew AD Binding			🗆 Set O	pen Firmv	vare/EFI Passw		
Di	New A	Directory Service aw AD Binding DmitMAC Bindin	5		🗆 Set O	pen Firmw Mode: No	vare/EFI Passw		
Di	New A New Cent	Directory Service aw AD Binding DmitMAC Bindin rify Directory Bir	nding		🗆 Set O	pen Firmv	vare/EFI Passw		
Di	New A New Cent New Like	Directory Service aw AD Binding ADmitMAC Bindin rify Directory Bir vise Directory Bir	nding		Set O Pass	pen Firmw Mode: No	vare/EFI Passw		
Di	New A New Cent New Like	Directory Service aw AD Binding DmitMAC Bindin rify Directory Bir	nding		Set O Pass	pen Firmw Mode: No word:	vare/EFI Passw		
Di	New A New Cent New Like	Directory Service aw AD Binding ADmitMAC Bindin rify Directory Bir vise Directory Bir	nding		Set O Pass	pen Firmw Mode: No word:	vare/EFI Passw		
Di	New A New Cent New Like	Directory Service aw AD Binding ADmitMAC Bindin rify Directory Bir vise Directory Bir	nding		Set O Pass	pen Firmw Mode: No word:	vare/EFI Passw		

Clients execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To reset the password for the management account using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, locate the computers that have the account and select the checkbox next to each one.
- 3. Click the **Accounts** tab.
- 4. To randomly assign a new password for the management account, select **Randomly Generated Passwords** and specify the number of characters that you want the password to have.
- 5. To assign a specific password for the management account, select **Change To** and enter the new password.
- 6. Click Go.

Tasks	Computers Packages Scripts Printers	Dock Accounts Reboot Advanced
Selected Computers	Create Accounts/Reset Passwords/Delete Accounts	Change Management Account Password
	Username Action	O Do Not Change
		Randomly Generated Passwords
		Number of Characters: 8
		Change To:
	Create Reset Password Delete -	••••••
	Directory Bindings	Open Firmware/EFI Password
	Directory Type	Set Open Firmware/EFI Password
		Mode: none +
		Password:
		Verify:

Once these steps are complete, Casper Remote resets the password by:

- 1. Logging in to each computer using an SSH connection.
- 2. Verifying the computer's identity using the MAC address.
- 3. Resetting the password.
- 4. Logging out of the SSH connection.
- 5. Storing the new password in the JSS.

Binding to a Directory Service

Before you can bind remote computers to a directory service, the JAMF Software Server (JSS) must contain a record of the directory bindings. For more information about creating directory bindings in the JSS, see the "Creating Directory Bindings" section.

The instructions in this section explain how to bind to a directory service using a policy or Casper Remote.

To bind to a directory service using a policy:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Create or edit the policy.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.
 - To edit an existing policy, click the **Edit Policy** link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to a category using the **Category** pop-up menu.
- 7. Choose a trigger from the Triggered By pop-up menu.
- 8. Specify how often you want clients to execute the policy using the **Execution Frequency** pop-up menu.
- 9. Click the Scope tab and assign computers or user groups to the scope.
- 10. Click the **Accounts** tab and select the **Bind** checkbox across from each directory server you want to bind to.
- 11. Click Save.

() ieneral	Scope	Self Service	🥪 Packages	Scripts	Printers	Dock	Accounts	() Reboot	Advanced
Cre	eate Accoun	nts/Reset Passwo	ords/Delete A	ccounts	Change	Manageme	ent Account Pa	ssword	
	Username	Action	Edit Re	move	•	Do Not Ch	ange		
	There a	re no changes to	local account	s	0	Randomly	Generated Pass	words	
	ere u					Number of	Characters: 8		
						Change To			
N	New Account	Reset Password De	lete Existing Acc	ount		Change 10			
Di	irectory Bin	dings			Open Fire	mware/EFI	Password		
Di		Directory Service		Bind			Password /are/EFI Passw	ord	
Di	N	Directory Service lew AD Binding			🗆 Set O	pen Firmv	are/EFI Passw	rord	
Di	New .	Directory Service lew AD Binding ADmitMAC Bindin	9		Set O	pen Firmw Mode: No		rord	
Di	N New New Cen	Directory Service lew AD Binding ADmitMAC Bindin itrify Directory Bin	nding		Set O	pen Firmv	are/EFI Passw	rord	
Di	New New Cen New Like	Directory Service lew AD Binding ADmitMAC Bindin trify Directory Bin wise Directory Bin	nding		Set O Pass	pen Firmw Mode: No	are/EFI Passw	rord	
Di	New New Cen New Like	Directory Service lew AD Binding ADmitMAC Bindin itrify Directory Bin	nding		Set O Pass	pen Firmw Mode: No word:	are/EFI Passw	rord	
Di	New New Cen New Like	Directory Service lew AD Binding ADmitMAC Bindin trify Directory Bin wise Directory Bin	nding		Set O Pass	pen Firmw Mode: No word:	are/EFI Passw	rord	
Di	New New Cen New Like	Directory Service lew AD Binding ADmitMAC Bindin trify Directory Bin wise Directory Bin	nding		Set O Pass	pen Firmw Mode: No word:	are/EFI Passw	rord	

Clients execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To bind to a directory service using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, locate the computers you want to bind to the directory server and select the checkbox next to each one.
- 3. Click the **Accounts** tab.
- 4. In the list of directory bindings, select the checkbox next to each server that you want to bind to.
- 5. Click Go.

New Window Screen Share Overrid	e Defaults Refresh Data	
Selected Computers	Computers Packages Scripts Printers	Dock Accounts Reboot Advanced
MyCompany0004	Create Accounts/Reset Passwords/Delete Accounts	Change Management Account Password
	Username Action	 Do Not Change
		Randomly Generated Passwords
		Number of Characters: 8
		Change To:
	Create Reset Password Delete -	
	Directory Bindings	Open Firmware/EFI Password
	Directory Type	Set Open Firmware/EFI Password
	 New AD Binding Built-In AD ✓ New Open Directory Binding Built-In OD 	Mode: none +
		Password:
		Verify:

Once these steps are complete, Casper Remote binds each computer to the directory servers by:

- 1. Logging in to each computer using an SSH connection.
- 2. Verifying the computer's identity using the MAC address.
- 3. Binding the computer to the directory server(s).
- 4. Logging out of the SSH connection.

Managing Open Firmware/EFI Passwords

You can manage Open Firmware or EFI passwords remotely to ensure the security of client computers.

The instructions in this section explain how to set and remove an Open Firmware/EFI password using a policy or Casper Remote.

To set or remove an Open Firmware/EFI password using a policy:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Create or edit the policy.
 - To create a policy, click the Create Policy button in the toolbar, select the Create policy manually option, and then click Continue.
 - To edit an existing policy, click the **Edit Policy** link across from it.
- 5. Enter a display name for the policy.
- 6. Assign the policy to a category using the **Category** pop-up menu.
- 7. Choose a trigger from the Triggered By pop-up menu.
- 8. Specify how often you want clients to execute the policy using the Execution Frequency pop-up menu.
- 9. Click the **Scope** tab and assign computers or user groups to the scope.
- 10. Click the Accounts tab and select the Set Open Firmware/EFI Password checkbox.
- 11. If you want to set the password, choose **Command** from the **Mode** pop-up menu, and then enter and verify a password.

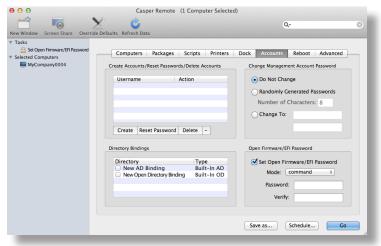
eneral	Scope	Self Service	🥪 Packages	Scripts	Printers	Nock	Accounts	(U) Reboot	Advanced
Cr	eate Accounts	/Reset Passwo	rds/Delete A	ccounts	Change	Manageme	ent Account Pa	ssword	
	Username			nove					
	osemanie	Action	curt Ker	nove	-	Do Not Ch	-		
	There are	no changes to l	ocal accounts	.	0	Randomly	Generated Pass	swords	
						Number of	Characters: 8		
					0	Change To			
	New Account Re	set Password Del	ete Existing Acco	ount	0	change re	·.		
)					
Di	irectory Bindi	ngs			Open Fire	nware/EFI	Password		
Di		ngs rectory Service		Bind	<u> </u>			vord	
Di	Di	•		Bind	Set O	pen Firmv	vare/EFI Passw	vord	
Di	Di	rectory Service	9		Set O	pen Firmv Mode: Co	vare/EFI Passw	vord	
Di	Di Nev New AE	rectory Service v AD Binding			Set O	pen Firmv	vare/EFI Passw	vord	
D	Di Nev New AE New Centri	rectory Service v AD Binding OmitMAC Binding	ding		Set O Pass	pen Firmv Mode: Co word: •••	ware/EFI Passw mmand 💠	/ord	
D	Di Nev New AE New Centri New Likewi	rectory Service v AD Binding DmitMAC Binding ify Directory Bin	ding ding		Set O Pass	pen Firmv Mode: Co	ware/EFI Passw mmand 💠	/ord	
D	Di Nev New AE New Centri New Likewi	rectory Service v AD Binding OmitMAC Binding ify Directory Bin ise Directory Bin	ding ding		Set O Pass	pen Firmv Mode: Co word: •••	ware/EFI Passw mmand 💠	/ord	
D	Di Nev New AE New Centri New Likewi	rectory Service v AD Binding OmitMAC Binding ify Directory Bin ise Directory Bin	ding ding		Set O Pass	pen Firmv Mode: Co word: •••	ware/EFI Passw mmand 💠	/ord	
D	Di Nev New AE New Centri New Likewi	rectory Service v AD Binding OmitMAC Binding ify Directory Bin ise Directory Bin	ding ding		Set O Pass	pen Firmv Mode: Co word: •••	ware/EFI Passw mmand 💠	/ord	

- 12. If you want to remove the password, choose None from the Mode pop-up menu.
- 13. Click Save.

Clients execute the policy the next time they check in with the JSS and meet all of the criteria on the General and Scope panes.

To set or remove an Open Firmware/EFI password using Casper Remote:

- 1. Open Casper Remote.
- 2. In the **Computers** list, locate the computers on which you want to set an Open Firmware/EFI password and select the checkbox next to each one.
- 3. Click the Accounts tab and select the Set Open Firmware/EFI Password checkbox.
- 4. If you want to set the password, choose **Command** from the **Mode** pop-up menu, and then enter and verify a password.



- 5. If you want to remove the password, choose **None** from the **Mode** pop-up menu.
- 6. Click **Go**.

Once these steps are complete, Casper Remote sets or removes the password by:

- 1. Logging in to each computer using an SSH connection.
- 2. Verifying the computer's identity using the MAC address.
- 3. Setting or removing the password.
- 4. Logging out of the SSH connection.

License Management

Creating Licensed Software Records

Creating licensed software records in the JAMF Software Server (JSS) let you store information about the software licensed to your organization. This information can be used to create inventory reports, ensure licensing compliance, and access licensing information quickly.

Licensed software records can include the following information:

- Details about each license owned by your organization, including serial number and purchasing information
- Software titles that should be present for a computer to count towards the licensed software

The JSS automatically determines licensed software records that supersede similar titles based on the software definitions.

There are three ways to create licensed software records:

- Using the pre-defined templates in the JSS
- Manually
- Duplicating existing licensed software records

The instructions in this section explain how to do the following:

- Create licensed software records
- Store software licenses
- Specify software definitions for licensed software records

To create a licensed software record from a template:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Licensed Software Management link.
- 4. Click the Licensed Software from Template button in the toolbar.
- 5. Click the **Create** link across from the software for which you want to create a record.
- 6. (Optional) Enter information on the Licenses and Software Definitions panes.

7. Click Save.

To create a licensed software record manually:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Licensed Software Management link.
- 4. Click the **Create Licensed Software** button in the toolbar.
- 5. Enter a display name for the record.
- 6. (Optional) Specify the publisher of the software in the **Publisher** field.
- 7. Specify the platform to which the record applies using the **Platform** pop-up menu.

Edit Lic	ensed Software:
() Info	Licenses Software Definitions
	Display Name: Adobe CS4 Web Standard Publisher: Adobe Systems Incorporated
	Platform: Macintosh : Send Email Notification on Violation Remove Software Titles from Inventory Reports
	Notes:
	(Cancel) (Save)
-	

- 8. To receive an email notification if you exceed the licensing limit, select the **Send Email Notification on Violation** checkbox.
- 9. If you want inventory reports to include the licensed software record, but you do not want to see a list of the individual software titles in the record, select the **Remove Software Titles from Inventory Reports** checkbox.
- 10. (Optional) Enter additional information about the software in the **Notes** field.
- 11. Click the Licenses and Software Definitions tabs to specify additional information.
- 12. Click Save.

To duplicate an existing licensed software record:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.

- 3. Click the Licensed Software Management link.
- 4. Click the Duplicate Licensed Software button in the toolbar.
- 5. Click the **Duplicate** link across from the software that you want to duplicate.
- 6. Enter a new display name.
- 7. Click the Licenses and Software Definitions tabs to specify additional information.
- 8. Click Save.

To store licenses with a licensed software record:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Licensed Software Management link.
- 4. Create a new licensed software record or edit an existing one.
 - To create a new record, click the **Create Licensed Software** button in the toolbar.
 - To edit an existing record, click the Edit link across from it.
- 5. Click the Licenses tab.
- 6. Click the Add License link.
- 7. Enter the serial number(s) for your software in the Serial Number fields.

Edit L	icensed Software	e: Adobe CS4 Web Standard
-		
i	<u>8</u>	4
Info	Licenses	Software Definitions
	License Info	
	Serial Numb	er 1:
	Serial Numb	
	Organization N	
	Registered	
	-	Por:
		Concurrent Licenses
		O Site License
	N	otes:
ſ	Purchasing Info	(Cancel) (Store License)
		Perpetual License 🕙 Annual License 🔘
	PO Nui	mber: PO Date: NA 🗘 / NA 🗘
	Ve	endor: License Expires: NA 🗘 / NA 🗘
	Purchase	Price: Life Expectancy: N/A 🗘
	Purchasing Acc	count: Purchasing Contact:
	No Attachments	5.
	Attach File	
		Cancel Store License
		(Cancel) (Save)
	_	

- 8. If the license is tied to an organization, enter the name of the organization in the **Organization Name** field.
- 9. If the license is registered to a specific individual, enter the individual's name in the **Registered To** field.
- 10. Select the Licenses, Concurrent Licenses, or Site License option and enter the corresponding number of licenses if required.
- 11. (Optional) Enter additional information about the license in the **Notes** field.
- 12. (Optional) Enter purchasing information for the license.
- 13. Click the **Store License** button.
- 14. Repeat steps 4 through 13 for each license you want to include in the record.
- 15. Click Save.

		4			
fo	Licenses	Software Definitions			
		Serial Number	Licenses		
	AAAAAA-BBBI	BBB-CCCCCC-DDDDDD-EEEEEE-FFFFFF	0	Edit License	Delete License
	Add License				
					(Cancel) (S
					Cancel

To specify software definitions for a licensed software record:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Licensed Software Management link.
- 4. Create a new licensed software record or edit an existing one.
 - To create a new record, click the **Create Licensed Software** button in the toolbar.
 - To edit an existing record, click the **Edit** link across from it.
- 5. Click the **Software Definitions** tab.

6. Depending on the item that you want to apply the license to, click the **Add Application**, **Add Font**, or **Add Plug-in** link.

t Lic	ensed Softwa	re: Adobe CS4 Web Stan	lard	
i)		A		
fo	Licenses	Software Definitions		
	Appl	ication Name	Version	
			oplications entered	
		There are no A	plications entered	
Ad	d Application			
	Font	Name	Version	
		There are n	o Fonts entered	
Ad	d Font			
	Plug-	-in Name	Version	
		There are no	Plug-ins entered	
Ad	d Plug-in			
				(Cancel) (Sav
	_			

- 7. Enter a title for the item.
- 8. Enter the complete or partial version number for the item.
 - If you choose to enter the partial version number, leave the **Version** pop-up menu option as **like**.
 - If you choose to enter the complete version number, choose is from the Version pop-up menu.

D			
fo	Licenses	Software Definitions	
A	pplication In	fo	
		Title: is Adobe Dreamweaver CS4	
	Ň	/ersion: like 🗘 10	
		Cancel (Store Definition)	

- 9. Click the **Store Definition** button.
- 10. Repeat steps 4 through 9 for each item you want the license to be applied to.
- 11. Click Save.

Reporting on Licensed Software

Using reports to track licensed software helps you stay organized by storing all of your purchasing information in one, accessible location. Licensed software reports allow you to monitor the number of licenses your organization has and how many are in use, making compliance with software vendors easy to track and maintain.

Licensed software reporting and inventory reporting work in the same way. First, you perform a simple or advanced search of your records. Then, you choose a reporting template in which to view your results.

This section explains how to do the following:

- Perform simple and advanced licensing searches
- View licensing search results

Performing a Simple Licensing Search

A simple licensing search functions like a search engine, allowing you to locate a general range of results quickly and easily.

Simple searches can be performed based on the following attributes of a licensed software record:

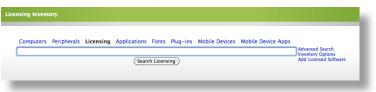
- Display Name
- Publisher
- Notes
- Registration Information for Associated Licenses (organization or individual that a license is registered to)
- Serial Numbers for Associated Licenses
- Purchasing Accounts for Associated Licenses
- Purchasing Contacts for Associated Licenses
- PO Numbers for Associated Licenses
- Notes for Associated Licenses

Note: Performing an empty search (with no criteria in the search field) returns all of the licensed software records in your database.

To perform a simple licensing search:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Click the Licensing link.
- 4. Type one or more terms into the search field.

5. Click the **Search Licensing** button, or press the Enter key.



By default, search results are displayed as a Standard Webpage report and include the following information:

- Licensed software records that match your search criteria
- Total number of licenses your organization owns for the software
- Total number of licenses in use for the software

Any licensed software records in violation of the licensing limit are displayed in red text.

To view a list of computers on which the software is installed, click the **View Computers** link across from the record.

21					Search	JSS Topics	
						1 Logout admin	
		83 Resu	lts (1.78 seconds)				
		Licens	ed Software				
	Display N	lame	Sed Software Total Licenses	Licenses Used			
	Display N OmniOutliner Pr	lame			View Computers		
		lame rofessional	Total Licenses	Licenses Used	View Computers View Computers		

Performing an Advanced Licensing Search

When used to search for licensed software and create reports, advanced searches offer a variety of powerful options. The advanced licensing search interface consists of three panes: General, Criteria, and Display Fields.

A detailed description of the information on each pane follows:

General Pane

dvanced Licensing Search							
0	4						
Criteria	Display Fields						
Save this	Report:	•					
		Cancel Search					
	Criteria Report Save this	- KA					

This pane lets you choose a reporting format and save the report so you can access it in the future. If you choose to save a report, you can perform the same search at a later date.

Saved computer searches can be accessed on the Computer Inventory pane. You can edit or delete a saved computer search by clicking the disclosure triangle next to the search and then clicking the **Edit** or **Delete** link.

Criteria Pane

() General	Q Criteria	A Display Fields			
	Field	Search Type	Criteria	-	+
		Licensed Softwar	e Info		•
		Software License	s Info		٠
		License Purchasir	g Info		•

This pane lets you specify the attributes on which to base your search. These options are broken down into three categories:

- Licensed Software Info
- Software License Info
- Software License Purchasing Info

Display Fields Pane

() ieneral	Q Criteria	Display Fields				
V	Display Name		Publisher		Platform	🗹 Total Licenses
\checkmark	Licenses Used		Compliant	V	Matching Computers	
	License Serial Ni	umber	Organization Name		License Registered To	
	Perpetual Licens	e/Annual License	PO Number		PO Date	Vendor
	Warranty Expire:	5	Lease Expires		AppleCare ID	Purchase Price
	Life Expectancy		Purchasing Account		Purchasing Contact	

This pane lets you specify the attributes displayed in your search results.

You can change the default selections by changing your Inventory Display preferences. For more information on changing Inventory Display preferences, see the "Inventory Display Preferences" section.

To perform an advanced licensing search:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Click the Licensing link.
- 4. Click the Advanced Search link at the right of the search field.
- 5. If you want to save your search, enter a name for the report and select the **Save this Report** checkbox.

0	0	A	
General	Criteria [isplay Fields	
	Keport Na Save this Rep	me: My License Search	
		As: Standard Web Page	\$
			(Cancel) (Search)

- 6. Choose the format in which you want to view the report from the View As pop-up menu.
- 7. Click the **Criteria** tab, and narrow your search by clicking the **Add** (+) button next to each search type that corresponds to the information that you want to use.

A list of searchable items is displayed.

8. Click the items that you want to use in your search and further specify the search criteria using the fields provided.

- 9. Click the **Display Fields** tab select the checkbox next to each attribute that you want displayed in your search results.
- 10. Click Search.

Viewing Licensing Search Results

If you performed an advanced licensing search, you can view your search results in the following formats:

- Standard Webpage
- Licensing Compliance Report (PDF)
- Printable Licensed Software Record (PDF)
- CSV
- Tab
- XML

This section explains each format in detail.

Standard Webpage

The Standard Webpage report displays the licensed software, the number of licenses your organization owns for the software, and the number of licenses currently in use. As you scroll down the page, a list of computers using the licenses is displayed.

Any licensed software records in violation of the licensing limit are displayed in red.

24					Search JSS Topics	
					1 Logout a	ndmin
		14 Resul	ts (1.00 seconds)			
		Licens	ed Software			
	Display	Name	Total Licenses	Licenses Used		
	Display Adobe Acrol		Total Licenses	Licenses Used	View Computers	
		bat Pro 9	Total Licenses	Licenses Used	View Computers	
	Adobe Acrol	bat Pro 9 Ige CS4	Total Licenses 1 1	2	View Computers	

Licensing Compliance Report (PDF)

The Licensing Compliance report provides a high-level overview of your licensed software records and any titles that are in violation of the licensing limit.

One record is displayed per line, along with the number of licenses owned and the total number of licenses in use. Records that have more licenses distributed than are owned by your organization are marked with a yellow alert to the left of the record.

ense (Compliance Report Generted for My Company	SCO	vibei
	Licensed Software Name	Licenses Owned	Licenses Used
A	Creative Suite 2 Professional	200	204
	Creative Suite 2 Standard	5	4
	Microsoft Office 2004	160	157

Printable Licensed Software Record (PDF)

The Printable Licensed Software record report allows you to print licensed software information in a format suitable for hardcopy purchasing records. The records print one per page and include general information about the title, along with each corresponding software license on file.

oftware Records fo	or My Company		Scort	
Microsoft Office 2	2004			
Licensed Software	e Overview			
Publisher	Microsoft Corp)		
Platform	mac			
Notes	Purchased direct	etly from Microsoft.		
License #1				
Serial Number	XB6JW-2JJCV-DX	C8B-88888-7777		
Organization	My Company			
Registered To	My Name			
License Type	5 Licenses	License Term	Perpetual License	
Vendor	Microsoft			
License #2				
Serial Number	XB6JW-2JJCV-DX	C8B-66666-55555		
Organization	My Company			
Registered To	My Name			
License Type	155 Licenses	License Term	Perpetual License	
PO Date	January 07, 2007	Vendor	Apple Store	
Purchase Price	399	Life Expectancy	1 Year	

CSV

This view exports your search results into a Comma Separated Values (CSV) text file that can be opened in Microsoft Excel and other spreadsheet applications.

Tab

This view exports your search results into a tab delimited text file that can be opened in Microsoft Excel and other spreadsheet applications.

XML

This view exports your search results into an XML (Extensible Markup Language) file. XML is commonly used to move data between applications.

Sending Notifications on Licensed Software Violations

Maintaining up-to-date licensed software records allows you to monitor the number of software licenses in use in your environment.

Each time a computer submits an inventory report to the JAMF Software Server (JSS), the licensed software on the computer is analyzed. If the number of computers that report a licensed software title is greater than the actual number of licenses purchased by your organization, an email notification is sent.

There are two prerequisites for sending emails notifications:

- An SMTP server must be set up in the JSS. (For instructions on how to set up an SMTP server, see the "Enabling Email Notifications."
- Each account that you want to receive notifications must have the Software Licensed Violation option enabled. (For more information, see "Managing JSS User Accounts.")

Note: A user must have an account in the JSS to receive email notifications.

To send an email notification on a licensed software violation:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Licensed Software Management link.
 - To create a new record, click the Create Licensed Software button in the toolbar.
 - To edit an existing record, click the Edit link across from it.
- 4. Select the Send Email Notification on Violation checkbox.
- 5. Click Save.

Edit Lice	ensed Software: Adobe	2 CS4 Web Standard	
() Info	Licenses Softwa	A re Definitions	
	Publisher: Platform:	Adobe CS4 Web Standard Adobe Systems Incorporated Macintosh :	
	_	Send Email Notification on Violation Remove Software Titles from Inventory Report	IS
			Cancel Save

Reclaiming Unused Licensed Software

If you have application usage logging enabled (see the "Application Usage" section), you can monitor how often licensed software is being used and remove it from computers if necessary.

To locate unused licensed software:

- 1. Log in to the JSS with a web browser.
- 2. Click the Logs tab.
- 3. Click the **Application Usage Logs** link.
- 4. On the Licensed Software pane, choose a starting and ending date for your search.
- 5. Click the View Usage link across from the record for which you want to view logs.
- 6. Click the **Unused Licenses** tab and select the checkbox across from each computer from which you want to remove the software.
- 7. Create a computer group by specifying a name for the group and clicking the **Create Computer Group** button.

iel
Aluminum, Late 🗹

After completing these steps, create a policy to uninstall the software and assign the computer group you created in step 7 to the scope.

Usage Management

Application Usage

Application Usage logs let you monitor how frequently applications are used on client computers. You can use this information to reclaim unused software licenses and track usage behaviors across your network.

Before utilizing this feature, you must enable application usage monitoring in the JAMF Software Server (JSS). This prompts clients to submit application usage data each time they generate an inventory report back to the JSS.

To generate Application Usage logs more frequently, create a policy to update inventory more frequently. For example, to generate daily usage logs, create a policy to update inventory once a day.

The instructions in this section explain how to do the following:

- Enable application usage monitoring
- View Application Usage logs for a single computer
- View Application Usage logs for multiple computers
- View Application Usage logs for licensed software

To enable application usage monitoring:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Computer Management Framework Settings link.
- 4. Click the Application Usage tab.
- 5. Select the Enable application usage monitoring checkbox.
- 6. Click Save.

To view Application Usage logs for a single computer:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple search for the computer.

- 4. Click the **Logs** link across from the computer record.
- 5. Use the Application Usage Logs from the last pop-up menu to see logs from a different timeframe.
- 6. Click the **Application Usage Logs** link at the top of the page.

Each Application Usage log looks like this:

O Computer Logs Do Image: Computer Logs Do Do Do Image: Computer Logs Do Do Do Do Image: Computer Logs Do Do Do Do Do Image: Computer Logs Do Do Do Do Do Do Image: Computer Logs Do Do			► Google
Application Usage Logs from the last One Week	Back to top		<u> </u>
Wednesday, June 10, 2009			
	Application Name	Time in Foreground	
	Safari.app 3.2.1	49 Minutes	
	Finder.app 10.5.8	11 Minutes	
	Composer.app 7.0	7 Minutes	
	Terminal.app 2.0.1	4 Minutes	
	Self Service.app 7.0	3 Minutes	
	Installer.app 3.0.2	1 Minute	
			Y III

To view Application Usage logs for multiple computers:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Logs** tab.
- 3. Click the **Application Usage Logs** link.
- 4. Click the **Computer Groups**, **Departments**, or **Buildings** tab depending on the logs you want to view.
- 5. Use the **Reports Starting** and **Reports Ending** pop-up menus to specify the dates you want to view logs for.
- 6. Specify the application name and version number in the **Application Name** and **Application Version Number** fields to further narrow the reporting criteria.

Application Usage In	formation	
Licensed Software	Computer Groups	L Departments Buildings
	Reports Starting: 3 Reports Ending: 4	
	Application Nam Application Versio	

- 7. Click the **View Usage** link across from the computer group, department, or building for which you want to view logs.
- 8. When the list of logs is displayed, you can view additional information about each log:
 - Click the disclosure triangle next to an application record to see a list of computers on which the application was used.

Click the disclosure triangle next to the computer record to see a list of users who opened the
application.

2 Applications wi	ith matching usage logs – Show All Details
2 Applications wi	ith matching usage logs – Show All Details
Applicat	
 Firefox.app Firefox.app 	
P FileI0X.app	5.0.16 14 Millutes

To view Application Usage logs for licensed software:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Logs** tab.
- 3. Click the **Application Usage Logs** link.
- 4. On the Licensed Software pane, use the **Reports Starting** and **Reports Ending** pop-up menus to specify the dates you want to view logs for.
- 5. Click the View Usage link across from the licensed software record for which you want to view logs.

Computer Usage

Computer Usage logs let you see how frequently each computer is used. These logs can be submitted back to the JAMF Software Server (JSS) at the following triggers:

- Startup
- Login
- Logout

The instructions in this section explain how to do the following:

- Enable computer usage monitoring
- View Computer Usage logs for all computers
- View Computer Usage logs for a single computer

To enable computer usage monitoring:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Computer Management Framework Settings** link.
- 4. To generate logs at startup:
 - a. Click the **Startup Item** tab.
 - b. Select the Create startup item checkbox.
 - c. Select the Log Startup Action checkbox.
- 5. To generate logs at login and logout:
 - a. Click the Create Login/Logout Hooks tab.
 - b. Select the Create login and logout hooks checkbox.
 - c. Select the Log Username at login and logout checkbox.
- 6. Click Save.

To view Computer Usage logs for a single computer:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple search for the computer.
- 4. Click the Logs link across from the computer record.

5. Click the **Computer Usage Logs** link at the top of the page to see a list of logs.



To view Computer Usage logs for all computers:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Logs** tab.
- 3. Click the Usage Logs link.

	Decules I		
	Results F	rer Page:	100 🗘 (Go)
Computer Name	Who	What	When
MyCompany0002	admin	logout	Tuesday, April 06 2010 at 4:06 PM
MyCompany0003	admin	logout	Tuesday, April 06 2010 at 3:59 PM
MyCompany0001	admin	logout	Tuesday, April 06 2010 at 3:57 PM

Restricted Software

If there are applications you don't want installed or used on client computers, you can prevent this by creating restricted software records. Restricting software is useful in preventing users from accessing commonly installed administrative utilities or applications that are considered a liability to your company.

There is a Global Exemption list that lets you specify any computers or users who are exempt from the restrictions. You can also specify exemptions based on individual applications, giving you full control over who has access to the applications on your network.

After you create a restricted software record, the restriction is enforced on client computers the next time they check in to the JAMF Software Server (JSS).

The instructions in this section explain how to create a restricted software record and edit the Global Exemption list.

To create a restricted software record:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Restricted Software** link.
- 4. Click the Add Restricted Software button in the toolbar.
- 5. Specify a display name for the restricted software.
- 6. Specify the process that you want to restrict.

Edit Restric	cted Software: Restricted Process		
0	🖳 🛄		
General	Exempt Computers Exempt U	sers	
	Display Name:	Restricted Process	
	Process To Look For:	LimeWire]
	Send Email Notification:		
	Kill Process:		
	Delete:		
	Display Message to User:		
			Cancel Save
-			

- 7. To receive an email notification each time a violation occurs, select the **Send Email Notification** checkbox.
- 8. To terminate the software when a violation occurs, select the Kill Process checkbox.
- 9. To delete the software when a violation occurs, select the **Delete** checkbox.

10. To display a message to the user who violated the restriction, enter the message that you want to display. If the **Display Message to User** field is left blank, a message is not displayed.

Edit Restrie	cted Software: Restricted Process	
0	₩ ₽	
General	Exempt Computers Exempt Users	
	Display Name: Restrict LimeWire	
	Process To Look For: LimeWire	
	Send Email Notification: 🗹	
	Kill Process: 🗹	
	Delete: 🗹	
	Display Message to User:	
		_
	(Cancel) (Save	e)

- 11. Click the **Exempt Computers** tab.
- 12. Click the Add <Group> button to specify exempt computers, computer groups, buildings, or departments.
- 13. Click the **Add** checkbox next to each computer or group you want to make exempt from the restriction.

neral			
	Exempt Computers	Exempt Users	
		Building	Add
	JAME	Eau Claire	
	JAM	F Houston	
	JAN	IF Indiana	
	JAM	F Lawrence	
	JAMF	Minneapolis	
	JAMF Minn	eapolis & St Paul	
	JAM	F New York	
	JAM	F Portland	
	JAME S	San Francisco	
	JAMF W	ashington DC	
		Add Building(s)	

14. Click the **Exempt Users** tab and click the **Add User** button to specify all exempt users.

15. In the **Username** field, specify the user name for the account used to open the application. For example, to ensure the administrator account always has access to applications, enter the administrator account user name.

You only need to specify the first eight characters of the short user name in the **Username** field. For example, if the short user name is "administrator", enter "administ".

cted Software: Restricte	d Process	
Exempt Computers	L Exempt Users	
	Username:	
	(Add User)	
	(Cancel) (Save)
		Exempt Computers Exempt Users Username: Add User

16. Click Save.

The restriction is enforced on client computers the next time they check in to the JSS.

To edit the Global Exemption list:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Restricted Software** link.
- 4. Click the Edit Global Exemption List button in the toolbar.
- 5. On the Exempt Computers pane, click the **Add** <**Group**> button to specify exempt computer groups, computers, buildings, or departments.
- 6. Click the Add checkbox next to each computer or group you want to add to the Global Exemption list.

	Exempt Users			
mpt Computers	Exempt users			
Com	puter Group	Computers	Add	
All Man	aged Servers	3		
Dev	elopment	3		
Li	aptops			
	VIP	1	 ✓ 	
	Add Comp	uter Group(s)		

7. Click the **Exempt Users** tab and click the **Add User** button.

8. In the **Username** field, specify the user name for the account used to open the application. For example, to ensure the administrator account always has access to applications, enter the administrator account user name.

You only need to specify the first eight characters of the short user name in the **Username** field. For example, if the short user name is "administrator", enter "administ".

dit Global Exemptions for Restricted Software							
Exempt Computers	Exempt Users						
	Useri	name:					
		(Add User)					
		(Cancel) (Save)					

9. Click Save.

Self Service

Overview of Self Service

The Self Service application allows users to run management tasks on their computers without the help of an administrator. Using an intuitive interface similar to the one in iTunes, users can browse and run Self Service policies, access webpages, and utilize plug-ins developed with the Self Service API.

The JAMF Software Server (JSS) allows you to manage every aspect of Self Service, including its installation, preferences, and the items available to users.

The items in Self Service are simply policies configured with a few additional settings. You can make any policy available in Self Service and customize how it is displayed to users. This includes adding an icon and description, displaying the policy in relevant categories, and featuring it on the main page. Assigning users or computer groups to the policy's scope allows you to determine which users have access to it from Self Service.

You can also add plug-ins to extend the functionality of the application. Plug-ins can be URLs, which give users easy access to webpages right from the application, or custom plug-ins developed with the Self Service API.

Managing User Authentication Preferences

User Authentication preferences allow you to control how users log in to Self Service and authenticate to install Self Service items.

To manage User Authentication preferences:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Computer Management Framework Settings link.
- 4. Click the **Self Service** tab.
- 5. Click the End-User Authentication tab.
- 6. In the **Network User Login** section, select how users log in to Self Service.
- 7. To require login with an LDAP directory account, select the Users are required to log in option.
- 8. To make login with an LDAP directory account optional, select the Users can log in (Anonymous login is available) option.

Note: Before selecting the required or optional settings, make sure an LDAP server connection is set up in the JSS. For instructions on how to set up an LDAP server connection, see the "Integrating with LDAP Servers" section.

- 9. If you do not have an LDAP connection set up or you do not want to require login, select the Users are not required to log in option.
- 10. In the Local Authentication section, select whether local authentication is required to run Self Service items.
- 11. Click the **Save** button.

Installing Self Service

The JSS allows you to install Self Service on client computers using the Computer Management Framework settings or a policy. The Computer Management Framework settings automatically install Self Service on all managed computers, while a policy gives you more control over the deployment process.

Note: To uninstall Self Service, follow the instructions in the "Uninstalling Packages" section.

To install Self Service using the Computer Management Framework settings:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Computer Management Framework Settings** link.
- 4. Click the **Self Service** tab.
- 5. Select the Automatically install Self Service on all managed clients checkbox.
- 6. To install Self Service in a custom location or give it a custom name, change the path or application name in the **Install Location** field.

Make sure the complete path is entered, including the application name and file extension (.app). For example:

/path/to/application name.app

7. Click the **Save** button.

To install Self Service using a policy:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Computer Management Framework Settings link.
- 4. Click the **Self Service** tab.
- 5. Make sure the **Automatically install Self Service on all managed computers** checkbox is deselected.
- 6. Click the here link to download the Self Service.tar.gz file.
- 7. Double-click the file to decompress it.
- 8. Use Composer or another package-building tool to package the Self Service application included in the file.

For more information about building packages with Composer, see the "Building Packages" section.

- Use Casper Admin to upload the package.
 For more information, see the "Managing Packages" section.
- Create a policy to install Self Service.
 For detailed instructions, see the "Installing Packages" section.

Making Policies Available in Self Service

Self Service items are policies configured with a few additional settings. Any policy can be made available in Self Service, but it is up to you to determine which policies are appropriate and which users should have access to them.

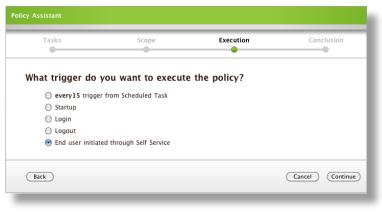
When you configure a policy for Self Service, you can customize the user experience by:

- Uploading an icon
- Entering a description
- Assigning the policy to one or more categories
- Featuring the policy on the main pane or in a category

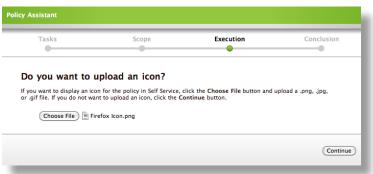
This section explains how to configure a policy for Self Service using the Policy Assistant or the manual policy interface.

To configure a policy for Self Service using the Policy Assistant:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Click the **Create Policy** button.
- 5. Follow the onscreen instructions until you are asked to select a trigger. Then, select the **End user initiated through Self Service** option and click **Continue**.



6. To display an icon, click the **Choose File** button and upload an icon. Then, click **Continue**. If you do not want to display an icon, simply click **Continue**.



- 7. Enter a description in the **Description** field if desired.
- 8. To display the policy in a category, select the **Display** checkbox across from the category.
- 9. If you uploaded an icon, select the **Feature this policy on the main page** checkbox to feature the policy on the main pane in Self Service.

To feature the policy in a category, select the **Featured** checkbox across from the category.

10. Click Continue.

•	Sc	cope	Execution	C	onclusion
low do y	you want the poli	cy to be dis	played in Self	Service?	
escription of	rice interface, policies are dis the policy. Enter a descriptio Ich category in which you wa	in in the Descriptio	n field below. Then, clic		
cross from ea	e policy's icon to be displayed ich category in which you wa	nt to feature the po			
ne Feature th	is policy on the main page	e checkbox.			
escription:	This is a description of Fire				
	This is a description of the				
	This is a description of the				
•					11
•					1
	✓ Feature this policy o	n the main page	Display	Featured	
	✓ Feature this policy of	n the main page	Display	Featured	
	Feature this policy o	n the main page			
	Feature this policy o Categor Applications	n the main page		Ø	
	 Feature this policy on Category Applications Configurations 	n the main page		Ø	
	Feature this policy o Categor Applications HiddenUserTest	n the main page		Ø	
Categories:	Feature this policy of Category Applications HiddenUserTest JAMF Software	n the main page		Ø	
	Feature this policy of Category Applications Configurations HiddenUserTest JAMF Software Operating Systems	n the main page		Ø	
	Feature this policy of Category Applications Configurations HiddenUserTest JAMF Software Operating Systems Printers	n the main page			

11. Follow the rest of the onscreen instructions to complete the Policy Assistant and save the policy.

Clients in the scope display the policy in Self Service the next time they check in with the JSS.

To configure a policy for Self Service manually:

1. Log in to the JSS with a web browser.

- 2. Click the Management tab.
- 3. Click the **Policies** link.
- 4. Create a new policy or edit an existing policy.
 - To create a new policy, click the **Create Policy** button.
 - To edit an existing policy, click the **Edit Policy** link across from the policy.
- 5. If you created a new policy, configure it as needed. For more information, see the "Policies" section.
- 6. Click the **General** tab and choose "None (or Self Service Only)" from the **Triggered By** pop-up menu.
- 7. Click the Self Service tab and select the Allow this Policy to be used for Self Service checkbox.

() General	Scope	C Self Service	💝 Packages	Scripts	Printers	No.k	Accounts	() Reboot	🌼 Advanced
Self	Service Opt	ions							
			ow this Policy	to be used	for Solf Som	ico			
			ow this Policy	to be used	for Self Serv	ice			

- 8. To customize the button that users click to run the policy, modify the text in the **Install Button Text** field. For example, if the policy allows users to update software, enter "Update" in the text field.
- 9. Enter a description in the **Description** field if desired.

0		2	-			-	<u>s</u>	11	٢	÷
neral	Scope	Self Service	Packa	ages	Scripts	Printers	Dock	Accounts	Reboot	Advanced
6.16	Complete Outline									
Seir	Service Optio	ns								
		🗹 All	ow this l	Policy t	o be used fo	or Self Servi	ce			
	Install Butto	n Text: Instal	1							
		🗹 Fo	rce users	s to vie	w descriptio	on				
	Desc	ription: This v	vill install	Firefox 1	for you!					
									1	
		Icon: None	Chosen	Choose	e File					
		🔲 Fe	ature Thi	is Polic	y on the Ma	in Page				
	Cate			Display						
		App	s	1						
		OS								
		Scri	pts							
		Unk	nown							

10. To force users to view the description before they run the policy, select the **Force users to view description** checkbox.

- 11. To display an icon, click the **Choose File** link.
 - To choose an icon that you previously uploaded, click the **Choose Existing** button.
 - To upload a new icon, click the **Choose File** button.

() eneral	Scope	CC Self Service	Packages	Scripts	Printers	Salar Sa Dock	Accounts	() Reboot	Advanced
Pol	icy Icon								
Ree	commenda	tions for image	file: PNG file a	at 128 x 128	8 pixels.				
6	Choose Exist	ing							
_	or-								
_		no file selected							
	Upload Selec	ted File							
	Cancel								
								_	ncel Save

- 12. If you uploaded an icon, select the **Feature This Policy on the Main Page** checkbox to feature the policy on the main pane in Self Service.
- To display the policy in a category, select the **Display** checkbox across from the category. The category that you specified on the General pane is selected by default.
- 14. If you uploaded an icon, select the **Featured** checkbox across from a category to feature the policy in the category.
- 15. Click Save.

un Policy.	: Install Firefo	x								
0	100					-		11	٥	Ô
General	Scope	Self Serv	ice Pac	kages	Scripts	Printers	Dock	Accounts	Reboot	Advanced
Self S	Service Option Install Buttor Descri	n Text: [iption:]	install	ers to view	w descriptic	or Self Servi on	ce			
			🛿 Feature T	his Policy	y on the Ma	in Page				
	Categ	gories:	Category	Display	Featured					
			Apps	1						
			OS							
			Scripts							

Clients in the scope display the policy in Self Service the next time they check in with the JSS and meet the criteria on the General and Scope panes.

Managing Self Service Plug-ins

The JAMF Software Server (JSS) allows you to add the following plug-ins to Self Service to extend the functionality of the application:

- URL plug-ins that give users quick, easy access to webpages
- Self Service Plug-in bundles that allow users to utilize plug-ins developed with the Self Service API

You can also use the JSS to edit URL plug-ins and remove both kinds of plug-ins from Self Service.

URL Plug-ins

URL plug-ins open a webpage in a browser or display web clips in the Self Service interface.

To add a URL plug-in:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Computer Management Framework Settings link.
- 4. Click the **Self Service** tab.
- 5. Click the **Plug-ins** tab.
- 6. Click the Add new plug-in link.
- 7. Make sure the URL option is selected and then click Next.



8. In the **Display Name** field, enter a name of the webpage, such as "JAMF Software".

	Cor	nputer Management Frar	nework Settings		
Check In Frequency	Startup Item	(1) Login/Logout Hooks	C Self Service	Application Usage	Security
URL					
Enter information ab		nat you want to make availab	le through Self Ser	vice.	
Description:					
URL: Priority:					
Open In Browser:					
Icon:	Upload icon				
				Cance	el OK

- 9. Enter a description in the **Description** field if desired.
- 10. Enter the URL of the webpage in the **URL** field. For example: http://example.com
- Use the **Priority pop-up** menu to specify the order in which the plug-in should be displayed in the Plug-ins list. For example, choose "1" to display the plug-in at the top of the list.
 If you do not choose a priority, the plug-in is displayed in alphabetical order by display name.
- 12. If you want the webpage to automatically open in a browser, select the **Open in Browser** checkbox. If you do not select this checkbox, the web clip is displayed in the Self Service interface.
- 13. To display an icon, click the **Upload icon** link. Click the **Choose File** button to select an icon and then click the **Upload Selected File** button to upload it.
- 14. Click the **OK** button, and then click **Save.**

To edit a URL plug-in:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Computer Management Framework Settings** link.
- 4. Click the **Self Service** tab.
- 5. Click the **Plug-ins** tab.

- 6. Click the Edit link across from the plug-in you want to edit and make the necessary changes.
- 7. Click the **OK** button, and then click **Save** for the changes to take effect.

To remove a URL plug-in:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Computer Management Framework Settings link.
- 4. Click the **Self Service** tab.
- 5. Click the **Plug-ins** tab.
- 6. Click the **Delete** link across from the plug-in you want to remove from Self Service.
- 7. Click Save.

Self Service Plug-in Bundles

The Self Service API allows developers to write their own plug-ins for Self Service. The Self Service API is available at:

Self Service.app/Contents/Resources/SSPluginProtocol.h

The following instructions explain how to add and remove Self Service Plug-in bundles.

To add a Self Service Plug-in bundle:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Computer Management Framework Settings** link.
- 4. Click the **Self Service** tab.
- 5. Click the **Plug-ins** tab.
- 6. Click the **Add new plug-in** link.
- 7. Select the **Self Service Plug-in Bundle** option and then click **Next**.



8. Enter a name in the **Display Name** field.

	Con	nputer Management Fran	nework Settings		
Check In Frequency	Startup Item	Cogin/Logout Hooks	C Self Service	Application Usage	Security
check in Frequency	Startup item	Login/Logout Hooks	Self Service	Application usage	Security
Plug-in Bun	dle				
-		ke available through Self Serv	rice.		
Display Name:					
Priority:	5 \$				
	Upload bundle				
buildie File.					
bundle The.					
bundle File.				Cance	

- 9. Use the Priority pop-up menu to specify the order in which the plug-in should be displayed in the Plug-ins list. For example, choose "1" to display the plug-in at the top of the list.
 If you do not choose a priority, the plug-in is displayed in alphabetical order by display name.
- 10. Click the **Upload Bundle** link.
- Click the Choose File button and select a Self Service Plug-in bundle.
 This file must be a compressed.bundle file with a .zip file extension. For example: ExamplePluginB.bundle.zip

	⊲		2		Contraction of the second
heck In Frequency	Startup Item	Login/Logout Hooks	Self Service	Application Usage	Security
Upload Self S This file must have a		-in Bundle			
This file must have a		–in Bundle			
This file must have a	a .zip extension.	–in Bundle			

- 12. Click the **Upload Selected File** button.
- 13. Click the **OK** button, and then click **Save**.

To remove a Self Service Plug-in bundle:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the **Computer Management Framework Settings** link.
- 4. Click the **Self Service** tab.
- 5. Click the **Plug-ins** tab.
- 6. Click the **Delete** link across from the plug-in you want to remove.
- 7. Click Save.

Installing Items from Self Service

Before making policies available through Self Service, make sure that it is installed on client computers. For detailed instructions, see the "Installing Self Service" section.

To run Self Service, clients must meet the following requirements:

- They are managed by the Casper Suite.
- They exist in the JSS and have an SSL (Remote Login) account associated with them.
- The com.jamfsoftware.jss.plist file exists in the following directory: /Users/<username>/Library/Preferences/

Self Service allows users to run policies and utilize plug-ins from an interface similar to the one in iTunes.

Logging In

Users see a Login pane if the User Authentication preferences are configured to require login or make it optional. (See the "Managing User Authentication Preferences" section for more information.)

To log in, users must enter credentials for an LDAP directory account. If optional login is permitted, they can also click the **Log in anonymously** link.



Running Policies

Users can browse policies from the Featured section or the Categories list.

Note: Only policies configured with the **Feature This Policy on the Main Page** option are displayed in the Featured section. See the "Making Policies Available in Self Service" section for more information.



Users run a policy by clicking the button next to it. If the User Authentication preferences are configured to require local authentication, users are prompted to enter their local credentials before running the policy.

○ ○ ○ Self Service	
	\supset
Image: Self Service Rug-in Bur Example Self Service Plug-in Bur Software Software Software Cancel OK Software <	

Accessing Plug-ins

Plug-ins are displayed in the Plug-in Library to the left of the window.



Users click a plug-in to display a webpage or utilize a plug-in developed with the Self Service API.





Chapter 3: Mobile Device Management

Building Your MDM Framework

Configuring the Mobile Device Management Framework

Use the Global and Computer Management Framework settings to control how the JAMF Software Server (JSS) and managed mobile devices interact.

Global Management Framework Settings

The Global Management Framework settings allow you to configure and manage the following security components for the JSS:

- JSS URL
- Public key infrastructure (PKI)
- Apple Push Notification service (APNs) certificate

JSS URL

The JSS URL is the URL that managed mobile devices connect to when communicating with the JSS. The full URL of the JSS must be entered on this pane, including the correct protocol, domain, and port. For example:

https://jss.mycompany.com:8443/

If this field is blank or the URL is incorrect, managed devices are unable to connect to the server.

To view the JSS URL:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Global Management Framework Settings link.

4. Click the JSS URL tab.

The URL of the JSS is entered in the **JSS URL** field.

		Global Manageme	ent Framework Settings
4			
JSS URL	Public Ke	/ Infrastructure Push N	otification Certificate
JSS L This is t		computers and mobile devices	s will connect to when communicating with the JSS.
	JSS URL:	https://norman.local:8443/	Example: https://jss.mycompany.com:8443/
JSS U	RL (HTTP):	http://norman.local:9006/	Example: http://jss.mycompany.com:9006/
			Ily used for accessing the built-in SCEP server if you files with iPhone Configuration Utility. If your JSS has you can leave this field blank.
			Cancel Save

5. Click Save.

Public Key Infrastructure

To ensure the security of over-the-air tasks, the JSS requires a public key infrastructure (PKI) that supports certificate-based authentication. This includes:

- A certificate authority (CA) with Simple Certificate Enrollment Protocol (SCEP) capabilities
- A signing certificate
- A root CA certificate

If your organization currently uses a CA with SCEP capabilities, you can integrate it with the JSS. If not, the JSS has a built-in CA that is enabled by default. The built-in CA has the signing and root CA certificates uploaded for you.

To integrate with an existing CA:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Global Management Framework Settings link.
- 4. Click the **Public Key Infrastructure** tab.

5. Select Use External Certificate Authority and enter information about the CA.

	Global Manag	ement Framework Settings
4		
JSS URL	Public Key Infrastructure Push N	Notification Certificate
Pub	olic Key Infrastructure	
requi		essages between itself and mobile devices. The JSS also icate Authority. If you do not have access to this, you can pose.
Ο ι	Jse Built-in Certificate Authority	
	Jse External Certificate Authority	
	Base URL for the SCEP Server:	[required]
	The name of the instance: CA-IDENT:	[optional]
Subj	ject (Representation of a X.500 name):	[optional]
	Subject Alternative Name Type:	None ‡
	Challenge:	•••••
	Verify Challenge:	
	Key Size in bits:	
	Use as digital signature: Use for key encipherment:	-
	Fingerprint hex string:	
	Signing Certificate:	Signing Certificate Assistant
		Cancel Save

6. To upload the signing and root CA certificates, click the **Signing Certificate Assistant** link and follow the onscreen instructions.

The assistant guides you through the steps to generate a certificate signing request (CSR) and upload the signing and root CA certificates.

7. When you complete the assistant, click **Save**.

Apple Push Notification Service Certificate

For the JSS to perform over-the-air management tasks, it must be able to communicate with Apple Push Notification service (APNs). To enable this communication, you must obtain an APNs certificate from Apple and upload it to the JSS.

The JSS guides you through the process of generating or renewing an APNs certificate from the Apple Push Certificate Portal. This process requires:

- A valid JAMF Nation account To create a JAMF Nation account, go to: <u>https://jamfnation.jamfsoftware.com/createAccount.html</u>
- A valid Apple ID

To generate or renew an APNs certificate:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Global Management Framework Settings link.

- 4. Click the **Push Notification Certificate** tab.
- 5. To generate an APNs certificate for the first time, click the **Create a certificate using the Push Notification Certificate Assistant** link.

To renew your APNs certificate, click the **Renew your Push Notification Certificate** link.

- 6. Choose how you want to obtain the CSR.
 - If the server hosting the JSS has an outbound connection, select Request Signed CSR Automatically through JAMF Nation. Enter the user name and password for your JAMF Nation account, and then click Continue.

Push Notification Certificate	Assistant		
Get Signed CSR	Request Cert	Upload Cert	Complete
Get Signed CSR			
	Notification Certificate for you to u		
of the request, a signed CSR to generate the CSR.	yy your JSS and sent to JAMF Softwa will be returned in a plist file. JAM	IF Software never has access to the	
of the request, a signed CSR to generate the CSR. Request Signed CSR		IF Software never has access to the	
of the request, a signed CSR to generate the CSR. Request Signed CSR JAMF Nation U	Automatically through JAMF	IF Software never has access to the	

The JSS connects to JAMF Nation over port 443 and obtains the signed CSR. (You will download the CSR in the next step.)

If the server hosting the JSS does not have an outbound connection, select **Download CSR and Request Signing Manually**. Then, follow the onscreen instructions to get the CSR signed.

h Notification Certificate Assistant							
Get Signed CSR	Request Cert	Upload Cert	Complete				
Get Signed CSR							
CSR. The CSR is generated by	otification Certificate for you to u v your JSS and sent to JAMF Softwa will be returned in a plist file. JAN	are. Once JAMF Software has veri	fied the authenticity				
 Request Signed CSR A Download CSR and Re 	Automatically through JAMF N	lation					
1. Download PushCerri 2. Upload PushCertifi	tificateCSR.certSigningRequest icateCSR.certSigningRequest FSignedCSR.plist file from JAM	to JAMF Nation here					
Upload .p12 File			Cancel Continu				

7. On the Request Cert pane, follow the onscreen instructions to request an APNs certificate from Apple.



It is recommended that you sign in to the Apple Push Certificate Portal with a corporate Apple ID, since the account will be associated with your corporate APNs certificate.

8. On the Upload Cert pane, click **Choose File.** Select the APNs certificate (.pem) that you want to upload and click **Choose**. Then, click **Continue** in the JSS.

Get Signed CSR	Request Cert	Upload Cert	Complete
Unload Duch Not	fication Certificate		
opioad Push Not	incution certificate		
-	ification Certificate. This file shoul	d have a .pem file extension.	
Jpload your Apple Push Not		id have a .pem file extension.	
Jpload your Apple Push Not	ification Certificate. This file shoul	d have a .pem file extension.	

9. Click **Done** to save the certificate.

Mobile Device Management Framework Settings

The Mobile Device Management Framework settings allow you to set up and manage preferences for the following aspects of MDM:

- Inventory collection frequency
- Over-the-Air (OTA) enrollment process
- Self Service web clip

Inventory Collection Frequency

The inventory collection frequency lets you control how often managed devices submit inventory to the JSS. Devices can submit inventory once every day, once every week, or once every month.

To modify the inventory collection frequency:

1. Log in to the JSS with a web browser.

- 2. Click the **Settings** tab.
- 3. Click the Mobile Device Management Framework Settings link.
- 4. Choose an inventory collection frequency from the Request an Inventory Report pop-up menu.

Inventory Frequency	Enrollment Process	Self Service	
Inventory Co	llection Frequen	c v	
		-7	
This option allows yo that are managed.	ou to specify how often the	JSS requests an inventory report from mobile devices	
that are managed.	ou to specify how often the ventory Report: Once e		

5. Click Save.

OTA Enrollment

Use the Enrollment Process pane to set up or modify the following preferences for OTA enrollment:

Allow enrollment without invitation

Allows you to provide an enrollment URL where users can initiate the enrollment process. (This option is selected by default.)

Users should install the Root CA Certificate

Requires users to install the Root CA certificate during the OTA enrollment process. (This option is selected by default.)

Login and Profile page fields

Allows you to customize the text that is displayed to users on the Login and Profile pages of the OTA enrollment process

To set up or modify OTA Enrollment preferences:

- 1. Log in to the JSS in a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Mobile Device Management Framework Settings link.
- 4. Click the Enrollment Process tab.

5. Select or deselect options as needed.

	Mobile Devi	ice Manage	ment Framewo	ork Settings	
()	P]			
Inventory Frequency	Enrollment	Process	Self Service		
Enrollment P This section allows yo	ou to customia				
			nrollment with		
		🗹 Users s	hould install th	ne Root CA C	Certificate
Logir	n page title:	OTA Enroll	ment		
Login page o	lescription:	Complete ti network.	his process for se	cure access to	o our
Profile Dis	play Name:	MDM Profil	e		
	lescription:		ensures the secu	urity of your m	nobile
_	_	_	_	_	Cancel Save

- Customize text for the Login and Profile pages as needed. These pages are displayed to users during the enrollment process.
- 7. Click Save.

Self Service Web Clip

The Self Service web clip is added to managed devices by default. It allows you to distribute configuration profiles, apps, and updated MDM profiles to devices for users to install. The Self Service web clip is displayed on devices' Home screens after the devices are enrolled with the JSS. Users tap the web clip to browse and install items using an interface similar to the App Store.

Use the Self Service Web Clip pane to set up and modify the following preferences for the Self Service web clip:

Install Self Service Web Clip

Adds the Self Service web clip to all managed devices. (This option is selected by default.)

Require users to log in

Requires users to log in to the Self Service web clip with credentials for an LDAP directory account or a JSS user account that has OTA enrollment privileges. (See "Integrating with LDAP Servers" or "Managing JSS User Accounts" for more information.)

Allow users to install all in-house applications with one tap

Displays an **Install All** button in the Self Service web clip that allows users to install all in-house apps with a single tap. (This option is selected by default.)

Prompt user to update MDM Profile

Displays an updated MDM profile in the Self Service web clip when a managed device is upgraded to iOS 5. When the user installs the update, the device receives app management capabilities without losing communication with the JSS.

Note: Only devices enrolled by OTA invitation or enrollment URL can obtain an updated MDM profile via the Self Service web clip.

To set up or modify Self Service web clip preferences:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Settings** tab.
- 3. Click the Mobile Device Management Framework Settings link.
- 4. Click the **Self Service** tab.
- 5. Select the **Install the Self Service Web Clip** checkbox to add the Self Service web clip to managed mobile devices.
- 6. Select or deselect additional options as needed.

	B		
nventory Frequency	Enrollment Process	Self Service	
Self Service			
mobile devices. This ones that you have	Web Clip will allow users t specified from Apple's App	to install apps that	stall a Web Clip to your managed you have uploaded to the JSS or
Install Self Se	•		
	-	a applications w	ith one tan
Require use	rs to install all in-hous		itii olie tap
Allow use	rs to install all in-hous ser to update MDM Prof		
Allow use			
Allow use			

7. Click Save.

Enrollment

Enrolling Mobile Devices with the JSS

Enrolling mobile devices with the JAMF Software Server (JSS) is the first step to MDM. Enrollment establishes a connection between the devices and the JSS, allowing you to perform over-the-air management tasks without requiring user interaction. Devices that are enrolled with the JSS are referred to as managed devices throughout this document.

The JSS allows you to initiate over-the-air enrollment by sending an OTA invitation to devices or providing users with an enrollment URL. You can also enroll devices that are connected to a computer by USB by creating an enrollment profile in the JSS and installing it on the connected devices.

Sending an OTA Invitation

You can initiate OTA enrollment by sending an OTA invitation to devices via email or text message (SMS). Users tap the enrollment URL in the invitation and follow a series of guided steps to enroll their devices.

Sending an OTA invitation requires:

- An SMTP server set up in the JSS (See "Enabling Email Notifications" for detailed instructions.)
- Mobile devices with access to a wireless network connection
- (SMS invitations only) A valid phone number with SMS capabilities

To send an OTA invitation:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the Mobile Device Enrollment link.
- 4. Click the Send OTA Invitations button.

5. Select whether to send the invitation by email or SMS.

If you chose to send an SMS invitation, use the pop-up menu that is displayed to specify the network carrier.



- 6. Enter the email addresses or phone numbers that you want to send the invitation to. Separate each entry with a line break or comma, and then click **Continue**.
- 7. Customize the invitation message as needed, and then click **Continue**.

Mobile Device Manageme	ent Invitation Assistant		
Recipients	Invitation	Security	Complete
•	•	-	
Enter Invitatio	n Message		
	ontent of the invitation that will be rically replaced with the URL in the		
Sender's name:	JSS (optional	9	
Reply-To:	(optional	0	
Subject:	Your Mobile Device Enrollment Inv	vitation	
	Please follow the link below on yo mobile device gives you better act your data.		
Message:	%@		
	Thank you, Your IT Department		1
Back			Cancel Continue

8. Set an expiration date for the invitation.



9. To require users to log in to access the invitation, leave **Require login** selected.

Users must log in with credentials for an LDAP directory account or a JSS user account with OTA enrollment privileges. (See "Integrating with LDAP Servers" or "Managing JSS User Accounts" for more information.)

- 10. To allow multiple uses of the invitation, leave **Allow multiple uses of invitations** selected, and then click **Continue**.
- 11. Verify that the information on the Complete pane is correct, and then click **Send**.

Recipients	Invitation	Security	Complete
omplete!			
•	Is of the invitation below. To s	end the invitations, click the Send b	utton.
То:	useremail@mycompany.com		
From:	JSS		
Subject:	Your Mobile Device Enrollmen	at Invitation	
		n your iPhone, iPad or iPod touch. Er r access to our network and ensures	
Message:	%@		
	Thank you, Your IT Department		1

When users receive the invitation, they tap the enrollment URL and follow a series of guided steps to enroll their devices. When the enrollment process is complete, the devices are managed with the JSS.

The status of the OTA invitation is displayed on the Over-the-Air Invitations pane.

				e Enrollment Invitations		
		1	()			
Send O	TA Invitations	Create Enro	llment P	rofile		
				Second Se		
	er-the-Ai	Enrollment I		• Enforment Promes		
Ov You	er-the-Ai can send enrolli Send OTA Invita	r Invitation	IS o end use	rs by SMS text message or e	mail by clicking	

Providing an Enrollment URL

If you don't' want to send an OTA invitation via email or SMS, you can simply provide users with the URL where they can log in and initiate the enrollment process. The enrollment URL is the full URL for the JSS followed by /enroll/. For example:

https://jss.mycompany.com:8443/enroll/

Providing an enrollment URL requires:

- An LDAP server connection set up in the JSS or a JSS user account with OTA enrollment privileges (See "Integrating with LDAP Servers" or "Managing JSS User Accounts" for instructions on how to set up one of these requirements.)
- Mobile devices with access to a wireless network connection

When users receive the invitation, they tap the enrollment URL and follow a series of guided steps to enroll their devices. When the enrollment process is complete, the devices are managed by the JSS.

A list of URL enrollments is displayed on the Enrollment by URL pane.

-	100		
end OTA Invitations	Create Enrollment Profile	2	
OTA Invitations	🔤 Enrollment by URL 🛛 🔹	Enrollment Profi	les
Enrollment b	y URL		
End users can enroll	y URL their devices by navigating to: nfsw.corp:8443enroll/		
End users can enroll	their devices by navigating to:	Status	

Enrolling Connected Mobile Devices

The alternative to OTA enrollment is to enroll devices that are connected to a computer by USB. The JSS allows you to create enrollment profiles that you can install on connected devices using Apple's iPhone Configuration Utility (iPCU) or Apple Configurator.

Important: Updated MDM profiles cannot be distributed to devices that were enrolled using the connected methods explained in this section.

Enrolling connected mobile devices requires mobile devices with access to a wireless network connection.

Creating an Enrollment Profile

Use the JSS to create an enrollment profile that you can install on connected devices using iPCU or Apple Configurator.

To create an enrollment profile:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the Mobile Device Enrollment link.
- 4. Click the Create Enrollment Profile button.
- 5. Enter a display name for the profile.

This is displayed in iPCU and Apple Configurator, and it is also the filename of the profile.

Edit Mobile	Device Enrollm	ent Profile	e			
() General	Location Inform	mation	Purchasing Inf	ormation		
	ile Device E display name and talled.			These will be di	splayed on t	he device when
	Display Name: M	ly Enrollme	nt Profile			
	Target iOS: i	OS 4 ‡				
	Description: _{T1}	his profile v	will enroll your dev	vice into the JSS.	4	
_		_			_	Cancel Save

6. Choose a target iOS from the **Target iOS** pop-up menu.

The target iOS must match the iOS on the device(s) that you plan to enroll.

Enter a description for the profile.
 This is displayed in iPCU and Apple Configurator.

8. To populate location information for the device(s) that you plan to enroll, click the **Location Information** tab and enter information as needed.

1		1	
ieneral	Location Information	Purchasing Information	
with th	is profile.	ssigned as default location information	on for any device enfoned
with th		Phone:	
with th	is profile.		
	Username:	Phone:	No Department

9. To populate purchasing information for the device(s) that you plan to enroll, click the **Purchasing Information** tab and enter information as needed.

You can also upload attachments that will be assigned to the devices.

Mobile Device Enrollm	ent Profile		
0 1		9	
eneral Location Infor	nation Purchas	sing Information	
Mobile Device E	nrollment Pr	ofile - Default	Purchasing Information
Information filled out here with this profile.	will be assigned as	default purchasing info	rmation for any device enrolled
	Purch	nased 💿 Leased 🔘	
PO Number:		PO Da	te: NA 🗘 / NA 🗘 / NA 🗘
Vendor:		Warranty Expire	es: NA 🗘 / NA 🗘 / NA 🇘
AppleCare ID:		Lease Expire	es: NA 🗘 / NA 🗘 / NA 🗘
Purchase Price:		Life Expectane	cy: N/A 🗘
Purchasing Account:		Purchasing Conta	ct:
Attachmer	it		
No Attac	nments		
Attach File			
Attach Flie			
			(Cancel) (Save
	_	_	

10. Click Save.

Downloading an Enrollment Profile

Before you can install an enrollment profile with iPCU or Apple Configurator, you must download the profile from the JSS.

To download an enrollment profile:

1. Log in to the JSS with a web browser.

- 2. Click the Management tab.
- 3. Click the Mobile Device Enrollment link.
- 4. Click the Enrollment Profiles tab.
- 5. Click the **Download** link across from the profile and save it to the desired location.

If you are working on Mac OS X 10.7, you may be prompted to install the profile on your computer. Click **Cancel** to decline.

The profile is saved as a .mobileconfig file to the location that you specified.

Installing an Enrollment Profile Using iPCU

Installing an enrollment profile using iPCU requires a computer with:

- Mac OS X 10.6 or later
- iPCU

At the time of this documentation, the latest version of iPCU is available at: http://support.apple.com/kb/DL851

Before you begin, make sure to download the enrollment profile (.mobileconfig) that you created with the JSS. See "Downloading an Enrollment Profile" for instructions.

To install an enrollment profile using iPCU:

1. Open iPCU and drag the enrollment profile (.mobileconfig) into the content window.



- 2. Connect the device to a USB port on the computer.
- 3. In iPCU, select the connected device in the devices list, and then click the **Configuration Profiles** tab.

4. Select the enrollment profile, and then click **Install**.

00		iPhone Configuration Ut	ility		
Add Share Export				() Hide Detail	Search
LIBRARY	Summary	Configuration Profiles	Provisioning Profiles	Applications	Console
Devices	Summary	Configuration Profiles	Provisioning Promes	Applications	Console
Applications	Instal	l or remove configuration profi	les		
Provisioning Profiles	Nam	e	 Identifier 	Install	
🔯 Configuration Profiles	My E	nrollment Profile	com.jamfsoftware.encrypt	ed-tethe Install	
DEVICES					
iPad					
					The second s

5. On the connected device, follow the prompts to complete the enrollment process.

When the device completes the enrollment process, it is enrolled with the JSS for management.

Installing an Enrollment Profile Using Apple Configurator

Apple Configurator allows you to easily configure up to 30 connected mobile devices at once. For more information on Apple Configurator, see the Apple Configurator Help documentation at:

http://help.apple.com/configurator/mac/1.0/

Installing an enrollment profile using Apple Configurator requires a computer with:

- Mac OS X 10.7 or later
- iTunes 10.6 or later
- The Apple Configurator application Apple Configurator is available in the Mac App Store at: <u>http://itunes.apple.com/us/app/apple-configurator/id434433123?mt=12</u>

Before you begin, make sure to download the enrollment profile (.mobileconfig) that you created with the JSS. See "Downloading an Enrollment Profile" for instructions.

To install an enrollment profile using Apple Configurator:

- 1. Open Apple Configurator.
- 2. Connect one or more devices to a USB port on the computer.

3. Click the **Prepare** button at the top of the window.

Prepare Supervise Assign	
Settings Apps	
Name: No Change	
Number sequentially starting at 1	
Supervision: OFF	
Supervised devices can only be configured by Apple Configurator on this Mac.	
iOS: No Change \$	
Erase all contents and settings	
Restore: Don't Restore Backup 🗘	
Profiles:	
No Profiles Citck + to add a profile	
Circk + to add a prome	
+ - 12	
(T)	

- 4. If the enrollment profile that you want to install is not already in the Profiles list, click the **Add** (+) button at the bottom of the pane and select **Import Profile**. Then, choose the enrollment profile (.mobileconfig) and click **Open**.
- 5. Select the checkbox next to the enrollment profile.



- 6. Configure additional options as needed.
- 7. Click the **Prepare** button at the bottom of the window.

When the device completes the enrollment process, it is enrolled with the JSS for management.

Editing an Enrollment Profile

To edit an existing enrollment profile:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Mobile Device Enrollment** link.
- 4. Click the Enrollment Profiles tab.
- 5. Click the Edit link across from the profile, and make changes as needed.
- 6. Click Save.

Deleting an Enrollment Profile

Once you delete an enrollment profile, the profile becomes invalid. If you have already downloaded the profile, you can no longer use it to enroll devices. Devices that have already installed the profile are affected.

To delete an enrollment profile:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the Mobile Device Enrollment link.
- 4. Click the Enrollment Profiles tab.
- 5. Click the **Delete** link across from the profile, and then click the **Delete** button to confirm.

Are you sur	e you want to delete this profile?
You cannot undo th	is action. Any copies of this profile that have already been downloaded will no longer work.
	Display Name: My Enrollment Profile

Making a Mobile Device Unmanaged

You can use the JSS to wirelessly stop communication between a device and the JSS, resulting in an unmanaged device. Although an unmanaged device cannot submit inventory or receive over-the-air management tasks, its inventory record remains in the JSS.

When you use the JSS to make a device unmanaged, the following components are removed from the device:

- The MDM profile
- Configuration profiles installed with the Casper Suite
- Provisioning profiles installed with the Casper Suite

To make a mobile device unmanaged:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab, and perform a simple mobile device search for the device that you want to make unmanaged.
- 3. Click the **Details** link across from the device.
- 4. Click the \bigcirc icon on the Device Information pane.

Deta	ils for QA-Table2-iPad	
0		Device Information
	Location	Device Name: QA-Table2-iPad
		Last Inventory Update: Friday, August 26 2011 at 1:31 PM
0	Purchasing	Capacity: 14.02 GB
		Available: 13.79 GB
_	Apps	Percentage Used: 1.67%
\odot	1 App	Software Version: 4.3.3 (8J3)
		Serial Number:
20	Security Data protection is not enabled	UDID:
	Data protection is not enabled	IP Address: 10.10.12.187
Ser.	Network Information	Wifi MAC Address:
0.5		Bluetooth MAC Address:
_	Certificates	Modem Firmware:
-	4 Certificates	Model: iPad1,1 (MC820LL)
		Managed: Yes 🌝 🍚 🔑 🚫 🧊
学	Profiles	
14a	5 Profiles	
e	Provisioning Profiles	
	1 Provisioning Profile	
_		
4	Management History 11 commands, 1 pending	
	Attachments 0 Attachments	

5. Click **OK** to confirm.

Inventory

Searching Mobile Devices

Once mobile devices are acquired or enrolled with the JAMF Software Server (JSS), they can be viewed for inventory and reporting purposes.

This section explains how to do the following:

- Perform simple and advanced mobile device searches
- View mobile device details

Performing a Simple Mobile Device Search

A simple mobile device search functions like a search engine, allowing you to locate a general range of results quickly and easily.

Simple searches can be performed based on the following mobile device attributes:

- UDID
- Display Name
- Device Name
- GUID
- ICCID
- IMEI
- Phone Number
- Serial Number

- User Name
- Real Name
- Email Address
- Position
- Department
- Building
- Room

Note: Performing an empty search (with no criteria in the search field) returns all mobile devices in your database.

To perform a simple mobile device search:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.

3. Click the **Mobile Devices** link above the search field.



- 4. Type one or more terms into the search field.
- 5. Click Search Mobile Devices, or press the Enter key.

Performing an Advanced Mobile Device Search

When used to search for devices and create reports, advanced mobile device searches offer you a variety of powerful options. The advanced search interface consists of three navigation panes: General, Criteria, and Display Fields.

A description of the information on each pane follows:

General Pane

1	0		
General	Criteria	Display Fields	
	Report	Name:	
	Save this	Report: 🗌	
	V	iew As: Standard Web Page	÷
			(Cancel) (Search)

This pane lets you choose a reporting format and save the report so that you can access it in the future.

Saved mobile device searches can be accessed on the Mobile Devices Inventory pane. You can edit or delete a saved search by clicking the disclosure triangle next to the search, and then clicking the **Edit** or **Delete** link.

Criteria Pane

<i>i</i> eneral	Q Criteria	Display Fields			
	Field	Search Type	Criteria	-	+
		General Inform	ation		
		Mobile Device D	etails		
		Location			۲
		Purchasing	I		
		Apps			۲
		Security			
		Network			
		Certificates	5		۲
		Configuration P	ofiles		
		Provisioning Provision	ofiles		\oplus

This pane lets you specify the attributes on which to base your search. These options are broken down into the following categories:

- General Information
- Mobile Device Details
- Location
- Purchasing
- Apps
- Security
- Network
- Certificates
- Configuration Profiles
- Provisioning Profiles

Display Fields Pane

() eneral	Q Criteria I	Display Fields		
🗌 Infe	o Link	Mobile Device Display Name	Mobile Device Serial Number	
🗆 Wif	fi MAC Address	Bluetooth MAC Address	Managed	IP Address
De'	vice Name	Capacity	Available	Percentage
🗌 Pho	one Number	Mobile Device Model	OS Version	OS Build
🗌 Bat	ttery Level	Modem Firmware	Last Backup Time	Last Inventory Update
Use	ername	Real Name	Email Address	Department
🗌 Bui	ilding	Room	Phone	Position
🗌 Pur	rchased/Leased	PO Number	PO Date	Vendor
🗌 Wa	rranty Expires	Lease Expires	AppleCare ID	Purchase Price
🗌 Life	e Expectancy	Purchasing Account	Purchasing Contact	
Dat	ta Protection	Hardware Encryption	Passcode Present	Block-Level Encryption
🔲 File	e-Level Encryptio	n 🗹 Passcode Compliant	Passcode Compliant with Profile	

This pane lets you specify the attributes that are displayed in your search results when viewing them in one of the following formats:

- Standard Webpage
- CSV
- Tab
- XML

You can change the default selections on this pane by changing the Inventory Display preferences. For more information, see the "Inventory Display Preferences" section.

To perform an advanced mobile device search:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Click the Mobile Devices link.
- 4. Click the **Advanced Search** link.
- 5. If you want to save the search, enter a name for the report and select **Save this Report**.

0	•		
General	Criteria	Display Fields	
	Report	: Name:	
	Save this	Report: 📃	
	V	iew As: Standard Web Page	\$
			(Cancel) (Sear

- 6. Choose a format for the report from the **View As** pop-up menu.
- 7. Click the **Criteria** tab.
- 8. Click **Add** (+) next to the category you want to use to define your search. A list of searchable items is displayed.

() eneral	Q Criteria	Display Fields			
	Field	Search Type	Criteria	-	+
		General Information			
		Mobile Device Details			
		Location			
		Purchasing			۲
		Apps			
		Security			۲
		Network			۲
		Certificates			۲
		Configuration Profiles			۲
		Provisioning Profiles			

- 9. Click the item that you want to use in your search.
- 10. Specify search criteria for the item.
- 11. Click the **Display Fields** tab and select the attributes you want to display in the search results.

1) eneral	Q Criteria	Display Fields			
	nfo Link	🔲 Mobile De	vice Display Name	Mobile Device Serial Number	
	Wifi MAC Address	Bluetooth	MAC Address	Managed	IP Address
	Device Name	Capacity		Available	Percentage
	Phone Number	Mobile De	vice Model	OS Version	OS Build
	Battery Level	Modem Fi	rmware	Last Backup Time	Last Inventory Update
	Jsername	🗌 Real Name	2	Email Address	Department
	Building	Room		Phone	Position
	Purchased/Leased	PO Numbe	er	PO Date	Vendor
	Warranty Expires	🗌 Lease Exp	ires	AppleCare ID	Purchase Price
	life Expectancy	Purchasin	g Account	Purchasing Contact	
	Data Protection	Hardware	Encryption	Passcode Present	Block-Level Encryption
	File-Level Encryptio	on 🗹 Passcode	Compliant	Passcode Compliant with Profile	

12. Click the **Search** button.

Viewing Mobile Device Search Results

By default, simple mobile device search results are displayed in Standard Webpage format. You can view them in the following alternate formats by choosing from the **View Results As** pop-up menu at the bottom of the results list:

- CSV
- Tab
- XML

CSV

This format exports your search results into a Comma Separated Values (CSV) text file. You can open this file in Microsoft Excel and other spreadsheet applications.

Tab

This format exports your search results into a tab delimited text file. You can open this file in Microsoft Excel and other spreadsheet applications.

XML

This format exports your search results into an XML (Extensible Markup Language) file. XML is commonly used to move data between applications.

Viewing Mobile Device Details

After performing a mobile device search, you can view a Details report for any search result by clicking the **Details** link across from it.

Details reports are broken down by category. Clicking a category in the sidebar displays related information in the category pane. Some panes allow you to edit information, view history, and add components.



The following table describes each category pane and the actions that you can perform from it:

Category	Description	Actions that you can perform
Device	General information about the device,	Update inventory
Information	including device name, date/time of last inventory report, UDID, IP address, and management status	Run a remote command (remote lock, remote clear passcode, and remote wipe)
		Make the device unmanaged
Location	Information about the device's physical	Edit location information
	location on the network	Perform LDAP lookup (See "Integrating with LDAP Servers" for information on setting up an LDAP server connection.)
Purchasing	Purchasing information for the device,	Edit purchasing information
	including PO details, warranty information, and purchasing contact	Perform GSX lookup (See "Integrating with GSX" for information on setting up a GSX connection.)
Apps	A list of installed apps, and their version number and management status	
Security	Security components enabled on the device, including data protection, hardware encryption, and passcode information	
Network Information	Information about the network, including carrier, network and country codes, cellular technologies, carrier-specific information, and roaming status	
Certificates	A list of certificates installed on the device	
Profiles	A list of profiles installed on the device, including version number and bundle identifier	
Provisioning Profiles	A list of provisioning profiles installed on the device, including expiration date	
Management	A list of management commands run on the	Update management history
History	device	Cancel a remote command that is pending
Attachments	A list of files attached to the device's inventory record	Upload attachments

Searching Mobile Device Apps

You can search and report on the apps installed on managed or unmanaged devices.

This section explains how to do the following:

- Perform a simple app search
- Perform an advanced app search
- View app search results
- View app distribution

Performing a Simple App Search

A simple app search functions like a search engine, allowing you to locate a general range of results quickly and easily.

Simple searches can be based on the following attributes:

- App Name
- Version Number

Note: Blank searches cannot be performed for apps. You must enter criteria in the search field.

To perform a simple app search:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Click the Mobile Device Apps link.

Computers	Peripherals	Licensing	Applications	Fonts	Plug-ins	Mobile Devices	Mobile Device Apps	
			Search M	obile De	vice Apps			Advanced Search Inventory Options

- 4. Type one or more terms into the search field.
- 5. Click Search Mobile Device Apps, or press the Enter key.

Performing an Advanced App Search

When used to search for apps and create reports, advanced app searches offer you a variety of powerful options. The advanced search interface consists of three navigation panes: General, Criteria, and Display Fields.

A description of the information on each pane follows:

General Pane

		24	
General	Criteria I	Display Fields	
	Report Na	ame:	
	Save this Rep	port:	
	View	As: Standard Web Page	\$

This pane lets you choose a reporting format and save the report so that you can perform it at a later date.

Saved app searches can be accessed on the Mobile Device Apps Inventory pane. You can edit or delete a saved search by clicking the disclosure triangle next to the search and clicking the **Edit** or **Delete** link.

Criteria Pane

ieneral Criteria Display Fields	
Application Version	

This pane lets you define the following criteria on which to base your search:

- Application Name
- Application Version

Display Fields Pane

eneral Criteria Display Fields		General Criteria Display Fields			
Application Name Application Version	Application Name D Application Version		a Display Fields	Criteria	General

This pane lets you specify the attributes displayed in your search results when you view your search in one of the following reporting formats:

- Standard Webpage
- CSV
- Tab
- XML

To perform an advanced app search:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Click the **Mobile Device Apps** link.
- 4. Click the **Advanced Search** link.
- 5. If you want to save your search, enter a name for the report and select **Save this Report**.

6. Choose the format you want to view the report in.

7. Click the **Criteria** tab and define criteria for the search.

<i>i</i> General	Q Criteria	A Display Fields	
	A	Application Name like 🗘	
			(Cancel) (Search

8. Click the **Display Fields** tab and select the attributes you want to display in your results.

Advanced	Mobile Devi	ce Application Searc	JSS Mobile
() General	Q Criteria	A Display Fields	
		Application Na	e 📃 Application Version
			(Cancel) (Search)

9. Click Search.

Viewing App Search Results

By default, app search results are displayed as a Standard Webpage report. When you perform an advanced app search, you can view your search results in any of the following formats by choosing one from the **View Results As** pop-up menu on the General pane:

- CSV
- Tab
- XML

CSV

This view exports your search results into a Comma Separated Values (CSV) text file that can be opened in Microsoft Excel and other spreadsheet applications.

The attributes displayed in the file are determined by the settings on the Display Fields pane.

Tab

This view exports your search results into a tab delimited text file that can be opened in Microsoft Excel and other spreadsheet applications.

The attributes displayed in the file are determined by the settings on the Display Fields pane.

XML

This view exports your search results into an XML (Extensible Markup Language) file. XML is commonly used to move data between applications.

The attributes displayed in the file are determined by the settings on the Display Fields pane.

Viewing App Distribution

After performing an app search, you can view a list of devices that have the app installed by clicking the **View Distribution** link across from it.

Performing Mass Actions on Mobile Device Search Results

Mass actions are a quick way to perform the following tasks on the results of a mobile device search:

- Look up purchasing information from Apple's Global Service Exchange (GSX)
- Email users
- Delete from the JAMF Software Server (JSS)

Mass Look up Purchasing Information from GSX

This allows you to look up and populate purchasing information from Apple's Global Service Exchange (GSX).

To utilize this feature, a GSX connection must be set up in the JSS. For more information on setting up this connection, see "Integrating with GSX."

Note: GSX lookups may not always return complete purchasing information. The lookup only returns information available in GSX.

To perform a mass GSX lookup:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced mobile device search.
- Choose "Look up Purchasing Info in GSX" from the Take Action on Results pop-up menu. Then, click Go. The progress of the lookup is displayed.

rieving Purchasing Information from gsx.apple.con	n
Finished 3 of 4 mobile devices (75% complete)	

5. When the results are displayed, click the **Update Records** button to populate the information in the JSS. Then, click **Continue** to confirm.

If the information is already up-to-date, click the **Cancel** button.

Mass Emailing Users

Mass emails are a convenient way to notify users of an upcoming update or another issue.

Mass emails are sent from the SMTP server that is specified in the JSS. If you have not specified an SMTP server, see "Enabling Email Notifications" for instructions on how to do so.

To mass email users:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced mobile device search.
- 4. Choose "Send Email" from the Take Action on Results pop-up menu. Then, click Go.
- 5. Use the options and fields provided to compose the email message.

The email address you send the message from must be associated with the SMTP server in the JSS. Replies are also sent to this address unless you specify otherwise.

Send Email	
Recipients:	oscar.peterson@mycompany.com, operations@mycompany.com, development@mycompany.com
Use:	To Field BCC Field
From:	SMTPaccount@gmail.c
Subject:	
Reply-To:	
Message:	
_	(Cancel) (Send)

- 6. Click the **Send** button.
- 7. Click **Continue** to confirm.

Mass Deleting Mobile Devices

You can remove mobile devices from your inventory by deleting them from the JSS.

Important: Deleting mobile devices from the JSS does not make them unmanaged. For instructions on making devices unmanaged, see the section entitled "Making a Mobile Device Unmanaged".

To mass delete mobile devices from the JSS:

1. Log in to the JSS with a web browser.

- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced mobile device search.
- 4. Choose "Delete Mobile Devices" from the Take Action on Results pop-up menu. Then, click Go.
- 5. Click the **Delete Mobile Devices** button.
- 6. Click **Continue** to confirm the deletion.

Editing a Mobile Device Record

You use the JAMF Software Server (JSS) to edit location and purchasing information for a mobile device and attach files to the mobile device record.

To edit location or purchasing information for a mobile device record:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced mobile device search.
- 4. Click **Details** across from the device record you want to edit.
- 5. Click Location or Purchasing in the categories list.
- 6. Click the **Ellipsis** button to display the editable fields.

ls for	QA-Table1-iPod		
i	Device Information	Location	
1	Location O_Peterson	Username: O_Peterson Real Name: Oscar Peterson	
	Purchasing	Email Address: oscar.peterson@mycompany.com Phone:	
Θ	Apps 1 App	Position: Department: Building:	
<u>ên</u>	Security Data protection is not enabled	Room:	
٢	Network Information Current Network:		
Pages -	Certificates 0 Certificates		
¥	Profiles 0 Profiles		
Ē	Provisioning Profiles 2 Provisioning Profiles		
4	Management History 35 commands, 4 pending		
	Attachments 0 Attachments		

7. Add or modify information as needed, or click the **Search** sicon to perform an LDAP or GSX lookup. Performing a lookup populates the fields with information from an LDAP server or Apple's Global Service Exchange (GSX).

Note: The lookup feature is only available if an LDAP server and/or GSX connection is set up in the JSS. For more information on setting up these connections, see the "Integrating with LDAP Servers" and "Integrating with GSX" sections.

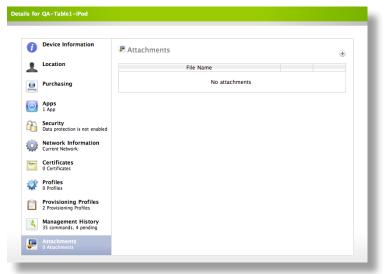
i	Device Information	Ledit Location		
1	Location O_Peterson	Username:	O_Peterson	0
0	Purchasing		Oscar Peterson	
			oscar.peterson@mycompar	
9	Apps 1 App	Phone: Position:		
n	Security Data protection is not enabled	Department:	Choose	
~	Network Information	Building:	Choose	
rar ⁵	Current Network:	Room:		
late V	Certificates 0 Certificates			(Cancel) (Save)
1	Profiles 0 Profiles			
	Provisioning Profiles 2 Provisioning Profiles			
4	Management History 35 commands, 4 pending			
	Attachments 0 Attachments			

8. Click Save.

To attach a file to a mobile device record:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced mobile device search.
- 4. Click **Details** across from the device record.
- 5. Click **Attachments** in the categories list.

6. Click the Add 🛨 icon.



- 7. Click the **Choose File** button and upload a file.
- 8. Click the Save Attachment button.

Deleting a Mobile Device from the JSS

You can remove a mobile device from your inventory by deleting it from the JAMF Software Server (JSS).

Important: Deleting a mobile device from the JSS does not make it unmanaged. For instructions on making a device unmanaged, see the "Making a Mobile Device Unmanaged" section in "Enrolling Mobile Devices with the JSS".

To delete a mobile device from the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab.
- 3. Perform a simple or advanced mobile device search.
- 4. Click **Delete** across from the device record, and then click the **Delete Mobile Device** button to confirm.

Delete Confirmatior		
	Are you sure you want to delete QA-Table1-iPad?	
	All data corresponding with this device will be lost.	
	Delete Mobile Device	
	Cance	

Creating Mobile Device Groups

Mobile device groups provide an easy way to identify and manage devices that share common attributes or meet custom criteria. You can use these groups to assign devices to a profile or app's scope, and track mobile devices for reporting purposes.

The JAMF Software Server (JSS) allows you to create two kinds of mobile device groups: smart mobile device groups and static mobile device groups. Smart mobile device groups are based on inventory attributes and have dynamic group membership. This means that group membership changes automatically anytime a change in criteria or device inventory occurs. Conversely, static mobile device groups are hardcoded and have fixed memberships that can only be changed by an administrator.

Only managed devices can be members of a mobile device group.

The instructions in this section explain how to create smart and static mobile device groups.

To create a smart mobile device group:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the Smart Mobile Device Groups link.
- 4. Click the Create Smart Group button in the toolbar.
- 5. Enter a name for the smart group.

Mobile Device Group Name: Send Email Notification on Change:		
Send Eman Notification on Change.		
Field Search Type Criteria	-	+
General Information		Ð
Mobile Device Details		Ð
Location		Ð
Purchasing		Ð
Apps	1	Ð
Security	1	Ð
Network	1	⊕
Certificates	1	Ð
Configuration Profiles	1	Ð
Provisioning Profiles	1	Ð

6. To send an email notification when membership changes occur, select the **Send Email Notification on Change** option.

Email notifications are sent to JSS users that have the "Smart Computer Group Email" privilege set up on their accounts.

Note: An SMTP server must be set up in the JSS to send email notifications. For information on how to set up an SMTP server, see the "Enabling Email Notifications" section.

- 7. Click Add (+) next to the category that you want to base the group on.
- 8. Click the item that you want to base the group on.

dit Smart Mobile Device	Group: iPhones	
	Search Items	
	Device Name	
	Capacity	
	Available	
	Percentage	
	Phone Number	
	Mobile Device Model	
	OS Version	
	OS Build	
	Battery Level	
	Modem Firmware	
	Last Backup Time	
	Last Inventory Update	
		Cancel
		Cancer

9. Specify criteria for the group.

Mobile Device Group Name: Send Email Notification on Change:		
Field Search Type	Criteria –	+
General Information		÷
Mobile Device Detai	ls	
Mobile Device Model		÷
Location		•
Purchasing		Ð
Apps		÷
Security		Ð
Network		÷
Certificates		÷
Configuration Profiles		•
Provisioning Profiles		÷

- 10. Repeat steps 7 through 9 as needed.
- 11. Click Save.

To create a static mobile device group:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Static Mobile Device Groups** link.
- 4. Click the **Create Static Group** button in the toolbar.
- 5. Enter a name for the static mobile device group.

Mobile I	Device Group N	ame		
Mobile Device Na	ame User	Department	Building	
QA-Table3-iPod				
QA-Table2-iPhone	2			

- 6. Select the devices you want to include in the group.
- 7. Click Save.

Configuration

Creating and Distributing iOS Configuration Profiles

iOS configuration profiles are XML files (.mobileconfig) that define groups of settings for managed mobile devices. The JAMF Software Server (JSS) allows you to create configuration profiles using an interface similar to Apple's iPhone Configuration Utility (iPCU) and Profile Manager.

When you are done creating the profile, you can distribute it wirelessly by choosing a distribution method and assigning devices to the scope.

Note: Some payloads and settings available in iPCU and Profile Manager cannot be configured with the JSS.

Before creating a configuration profile, you should have basic knowledge of the payloads and settings that you can configure and how they affect devices. For detailed information, see Apple's iPhone Configuration Utility documentation, available at:

http://help.apple.com/iosdeployment-ipcu/#

To create and distribute an iOS configuration profile using the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the Mobile Device Profiles link.
- 4. Click the Add Profile button.

5. Select Create a Configuration Profile, and then click Continue.



- 6. Enter a display name and description for the profile.
- 7. Choose a distribution method from the **Deployment** pop-up menu:
 - To install the profile automatically, choose "Install Automatically".
 - To distribute the profile in the Self Service web clip, choose "Make Available in Self Service Web Clip".

General Scope	
General Mandatory	Identity
Passcode Not Configured	Display Name Display name of the profile (shown on the device)
Restrictions Not Configured	Passcode Settings Description Bitle explanation of the contents or purpose of the profile
Wi-Fi Not Configured	Enforces the use of a passcode before the device can be used.
Not Configured	
Email Not Configured	Deployment Determines if the profile is installed automatically by the JSS or if the end user can choose the profile from Self Service
Exchange ActiveSync Not Configured	Install Automatically :
DAP Not Configured	
CalDAV Not Configured	
CardDAV	

8. If you chose to distribute the profile in the Self Service web clip, upload an icon to display and choose a security setting from the **Security** pop-up menu.

9. In the payloads list, select the payload that you want to add, and then click **Create**.

Edit Profile: Passcode Settings	
Ceneral Scope Ceneral Configured Ceneral Manadatory Ceneral Manadatory Ceneral Manadatory Ceneral Manadatory Ceneral Ceneral Manadatory Ceneral Cenera	Configure Passcode Use this section to specify passcode policies. (Users will not be able to modify these settings on their devices once the configuration profile is installed.) Create
VPN Not Configured Email Not Configured Xexthange ActiveSync Not Configured	Create
Not Configured	(Cancel) (Save)

- Use the options and fields in the main pane to configure settings for the payload.
 There are several variables that you can use to dynamically customize a payload. For more information, see the "Variables for iOS Configuration Profiles" section.
- 11. To add additional payloads, repeat steps 9 and 10.
- 12. Click the **Scope** tab and assign devices to the scope.

Edit Profile	: Passcode	Settings						
<i>i</i> General	Scope							
Assign t	his Profile	these M	lobile Dev	ices				
🔾 Assig	n to All Mob	ile Device	5					
	n to Specific bile Device Gr			evices A	dd Departi	ments A	dd Buildings	
Limit thi	s Setting to	the follo	wing User	'S				
Add User C	roup							
Install th	is profile t	o mobile (devices in	these I	Network	Segmer	nts	
💿 Use S	etting For M	obile Devi	ces With A	ny IP Ad	dress			
O Use S	etting For M	obile Devi	ces in Spe	cified Ne	etwork Se	egments		
								Cancel Save
-	_	_	_	_	_	_	_	

13. Click Save.

The next time devices in the scope contact the JSS, they receive the profile based on the distribution method you chose.

Variables for iOS Configuration Profiles

There are several variables that you can use to dynamically customize the payloads in an iOS configuration profile.

Enter a variable into any text field in a payload to dynamically populate information about the devices to which you are distributing the profile. When the profile is installed, the variable is translated to the actual value stored in the JSS.

Variable	Mobile Device Information
\$UDID	UDID
\$SERIALNUMBER	Serial number
\$USERNAME	User name
\$REALNAME	Real name
\$EMAIL	Email address
\$PHONE	Phone
\$ROOM	Room
\$POSITION	Position

Distributing iOS Configuration Profiles Created with Apple's Tools

To distribute an iOS configuration profile created with Apple's iPhone Configuration Utility (iPCU) or Profile Manager, you must first upload the profile to the JAMF Software Server (JSS). Then, you can choose a distribution method and assign devices to the scope.

Note: Some payloads and settings configured with iPCU and Profile Manager are not displayed in the JSS. Although you cannot view or edit these payloads, they are applied to devices when the profile is installed.

To distribute an iOS configuration profile created with Apple's tools:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the Mobile Device Profiles link.
- 4. Click the **Add Profile** button.
- 5. Select Upload a Configuration Profile, and then click Continue.

Select a method for creating a new mobile device profile
🗱 🔘 Create a Configuration Profile
対 💿 Upload a Configuration Profile
📋 🔘 Upload a Provisioning Profile
Cancel Continue

6. Click **Choose File** and select the profile that you want to upload. Then, click **Upload Selected File**. The profile that you choose must have a .mobileconfig file extension.



7. Verify the display name for the profile and enter a description if desired. Then, click **Save**.

isplay Name:	Passo	ode settings	
Description:	Enfor	ces the use of a passcode before the de	evice can be used.
Payloads:		Display Name	Туре
	0	Passcode	Passcode

- 8. Click the Edit link across from the profile that you uploaded.
- 9. Choose a distribution method from the **Deployment** pop-up menu:
 - To install the profile automatically, choose "Install Automatically".
 - To distribute the profile in the Self Service web clip, choose "Make Available in Self Service Web Clip".

	() General	Scope	
GardDAV	Panon Panon	neral inditiony siscicle configured sisciclions configured i Configured N i Configured i Configured i Configured Configured DAP i Configured DAP i Configured DAP i Configured DAP	Display name of the profile (shown on the device) Passcode Setting: Description Brief explanation of the contents or purpose of the profile Enforces the use of a passcode before the device can be used. Deployment Determines if the profile is installed automatically by the JSS or if the null user can choose the profile for Set Service

- 10. If you chose to distribute the profile in the Self Service web clip, upload an icon to display and choose a security setting from the **Security** pop-up menu.
- 11. If needed, use the payloads list to add or modify payloads.

12. Click the **Scope** tab and assign devices to the scope.

Edit Profile	: Passcode	Settings	
() General	Scope		
		o these Mobile Devices	
O Assig	n to All Mob	ile Devices	
		Mobile Devices pups Add Individual Devices Add Departments Add Buildings	
Limit thi	s Setting to	the following Users	
Add User C	roup		
Install th	is profile t	o mobile devices in these Network Segments	
💿 Use S	etting For M	obile Devices With Any IP Address	
🔘 Use S	etting For M	obile Devices in Specified Network Segments	
			Cancel Save
-	_		

13. Click Save.

The next time devices in the scope contact the JSS, they receive the profile based on the distribution method you chose.

Updating iOS Configuration Profiles

To update an iOS configuration profile, use the JAMF Software Server (JSS) to add, modify, or remove payloads as needed.

Note: Some payloads and settings configured in iPCU or Profile Manager are not displayed in the JSS.

To update an iOS configuration profile:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Mobile Device Profiles** link.
- 4. Click the **Edit** link across from the profile.
- 5. Use the payloads list to add, modify, or remove payloads as needed.
- 6. Click Save.

The configuration profile is updated the next time devices in the scope contact the JSS.

Removing iOS Configuration Profiles

To remove an iOS configuration profile from a device, remove the device from the scope. When the profile is removed, all settings associated with the profile are also removed.

To remove an iOS configuration profile:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the Mobile Device Profiles link.
- 4. Click the **Edit** link across from the profile.
- 5. Click the **Scope** tab and remove devices from the scope as needed.

eneral	Scope				
ssign this	Profil	e to t	hese Mobil	e Devi	ces
Assign to	o All M	obile	Devices		
	Device	Group			ices Add Departments Add Buildings
Device N	ame	User	Department	Room	Remove
QA-Table					Remove
QA-Table	1-iPad				Remove
QA-Table	2-iPad				Remove
dd User Grou		.0 11	e following	03613	
					these Network Segments y IP Address
	ing For	Mobi	ile Devices i	n Speci	fied Network Segments

6. Click Save.

Deleting an iOS Configuration Profile

Deleting an iOS configuration profile from the JAMF Software Server (JSS) removes the profile and its settings from all devices in the scope.

To delete an iOS configuration profile from the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the Mobile Device Profiles link.
- 4. Click the **Delete** link across from the profile, and then click the **Delete** button to confirm.

Delete Mobile Device Configuration Profile Confirmation			
Display Name: Passcode Settings			
Description: Enforces the use of a passcode before the device can be used.			
Cancel	Delete		
	_		

Security Management

Running Remote Commands for Mobile Devices

The JAMF Software Server (JSS) allows you to manage to security of mobile devices by running the following commands:

- Remote Lock—Locks the device. If the device has a passcode, the user must enter it to unlock the device.
- **Remote Clear Passcode**—Removes the passcode from the device.
- Remote Wipe—Permanently erases all data on the device and deactivates it. To restore the device to the original factory settings, you must manually reactivate the device.

Note: Running a remote wipe command on a device does not remove the device from the JSS or modify its inventory information.

There are two ways to run a remote command from the JSS:

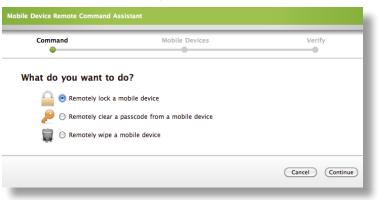
- Use the Remote Command Assistant.
- Use the icons displayed when viewing a Mobile Device Details report.

Note: Using the icons displayed when viewing a Mobile Device Details report runs a remote command for an individual device only.

To run a remote command using the Remote Command Assistant:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Remote Commands** link.
- 4. Click the New Remote Command button.

5. Select the command that you want to run, and then click **Continue**.



6. Follow the onscreen instructions to configure the rest of the command.

The remote command runs on the devices that you specified the next time the devices contact the JSS.

To run a remote command from a Mobile Device Details report:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab and perform a simple or advanced mobile device search. See the "Performing a Simple Mobile Device Search" or "Performing an Advanced Mobile Device Search" section in "Searching Mobile Devices" for complete instructions.
- 3. Find the device that you want to run the remote command, and click the **Details** link across from it.
- 4. Next to the Managed field, click the icon for the command you want to run.

The 🔛 icon runs the remote lock command.

The 🔑 icon runs the remote clear passcode command.

The 🧊 icon runs the remote wipe command.

		Device Information
	Location matt	Device Name: iPod touch
	matt	Last Inventory Update: Wednesday, February 29 2012 at 5:07 PM
	Purchasing	Capacity: 6.35 GB
		Available: 6.1 GB
	Apps	Percentage Used: 3.86%
	0 Apps	Battery Level: 50%
		Software Version: 5.0.1 (9A405)
	Security Data protection is not enabled	Serial Number:
	Data protection is not enabled	UDID:
Network Information	Network Information	IP Address:
		Wifi MAC Address:
	Certificates	Bluetooth MAC Address:
	1 Certificates	Modem Firmware:
		Model: iPod touch (4th Generation)
	Profiles	Model Details: iPod4,1 (MC540LL)
	3 Profiles	Managed: Yes 🔮 을 🔑 🛇 🗰
	Provisioning Profiles 0 Provisioning Profiles	
	Management History 1 pending, 0 failed	
	Attachments 0 Attachments	

The remote command runs on the device the next time the device contacts the JSS.

Viewing the Status of Remote Commands for Mobile Devices

The JSS allows you to view the status of remote commands sent to mobile devices in the following ways:

- View all remote commands for mobile devices
- View remote commands for an individual device

To view the status of all remote commands for mobile devices:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Remote Commands** link.
- 4. Use the **Remote Lock**, **Remove Passcode**, and **Remote Wipe** tabs to view the status of remote commands.

Mobile Device Remote Commands							
Kemote Comman	nd						
Remote Lock	Remove Pass	scode 🗑	Remote Wipe				
Remote Lock		ate Sent	Remote Wipe	Status			
		ate Sent		Status Pending	View Device	Revoke Command	
Device Name	Da Wed Nov 03 1	ate Sent 15:24:57 UTC	2010			Revoke Command	
Device Name QA-Table3-iPad	Da Wed Nov 03 1 Wed Nov 03 1	ate Sent 15:24:57 UTC 15:11:44 UTC	2010 2010 Comple	Pending eted Successfully	View Device		

The status of each remote command is displayed as "Pending" or "Completed Successfully," along with the date and time that the command was sent.

To view the status of remote commands for an individual device:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab and perform a simple or advanced mobile device search. See the "Performing a Simple Mobile Device Search" or "Performing an Advanced Mobile Device Search" section in "Searching Mobile Devices" for complete instructions.
- 3. Find the device that you want to view commands for, and click the **Details** link across from it.
- 4. Click Management History in the list of categories.
- 5. Use the **Completed Commands**, **Pending Commands**, and **Failed Commands** tabs to view the status of remote commands.

Security Data protection is not enabled	M	anagement Comman	ds			
Network Information		8 Completed Commands	3 Pending Commands	0 Failed Command	s	
Certificates			Command		Date Completed	
1 Certificate	0	Update Inventory		201	1-09-14 16:41:58	
Profiles	0	Install Provisioning Profile - Profile no longer exists 20			1-09-14 16:41:57	
3 Profiles	0	Install Self Service Web C	201	2011-09-14 16:41:56		
	0	Update Inventory 20			1-09-14 16:41:56	
Provisioning Profiles 1 Provisioning Profile	0	Update Inventory	1-09-13 12:40:16	09-13 12:40:16		
I Provisioning Prome	0	Install Provisioning Profile – Profile no longer exists 2011–0			1-09-13 12:40:16	
Management History	0	Update Inventory		201	1-09-13 12:40:14	
3 pending, 0 failed	0	Install Self Service Web C	201	2011-09-13 12:40:14		
Attachments 0 Attachments						

Canceling a Remote Command for Mobile Devices

The JSS allows you to cancel a remote command if the command is in a pending state. You can cancel a command for all mobile devices or cancel a command for an individual device.

To cancel a remote command for all mobile devices:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Remote Commands** link.
- 4. Use the **Remote Lock**, **Remove Passcode**, and **Remote Wipe** tabs to find the command you want to cancel, and then click the **Cancel** link across from the command.

The **Cancel** link is only displayed for remote commands in a pending state.

To cancel a remote command for an individual device:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Inventory** tab and perform a simple or advanced mobile device search. See the "Performing a Simple Mobile Device Search" or "Performing an Advanced Mobile Device Search" section in "Searching Mobile Devices" for complete instructions.
- 3. Find the device that you sent the command to, and click the **Details** link across from it.
- 4. Click Management History in the list of categories.
- 5. Click the **Pending Commands** tab.
- 6. Find the remote command you want to cancel, and click the **Cancel** link across from it.

Deta	ils for iPod touch									
i	Device Information	Management Co	mman	ds						¢
1	Location matt	0 Completed Com	mands	1 Pending Co	mmand	0 Failed Com	mands			_
	Purchasing	Command		Status		e Queued		t Push Sent 13-06 15:12:54	Cancel	
\odot	Apps 0 Apps	Update Inventory	Push n	otification sent	2012-0:	3-02 18:02:18	2012-0	13-06 15:12:54	Cancel	
60	Security Data protection is not enabled									
Ô	Network Information									
***	Certificates 1 Certificate									
-	Profiles 3 Profiles									
	Provisioning Profiles O Provisioning Profiles									
4	Management History 1 pending, 0 failed									
	Attachments 0 Attachments									
			_	_	_	_	_	_	_	

7. When prompted, click **OK** to confirm the cancelation.

Distribution

Apps

Understanding Unmanaged and Managed Apps

The Casper Suite allows you to manage the apps that you distribute to mobile devices. Managing an app gives you more control over installation and removal of the app, and allows you to set some additional management options.

The primary advantages to managing an app are that you can prompt users to install the app, and you can remove the app from devices that have it installed.

The following table shows the differences between an unmanaged app and a managed app:

	Unmanaged app	Managed app
Distribution Methods		
Display in Self Service web clip	1	✓
Prompt user to install		✓
Removal Options		
Remove from Self Service web clip	1	✓
Remove from device		✓
Additional Management Options		
Remove app when MDM profile is removed		✓
Prevent backup of app data		✓

Requirements for Managing an App

There are three factors that determine whether you can manage an app:

The type of app

The app must be an in-house app, a free App Store app, or a paid App Store app with VPP codes.

• The devices to which you distribute the app

Managing an app requires a mobile device with iOS 5 or later and an MDM profile that supports managed apps. Devices that are running iOS 5 or later at the time they are enrolled with the Casper Suite v8.3 or later automatically receive an MDM profile that supports managed apps.

For information on distributing an updated MDM profile that supports managed apps, see the "Self Service Web Clip" section in "Configuring the Mobile Device Management Framework".

• The method you use to distribute the app

When configuring the app for distribution in the JAMF Software Server (JSS), you must choose one of the following distribution methods:

- Prompt user to install
- Make available in the Self Service web clip and manage when possible

See the "Understanding App Distribution Methods" section for more information.

Understanding App Distribution Methods

The Casper Suite allows you to distribute apps to devices in the following ways:

- Prompt users to install the app
- Make the app available in the Self Service web clip and manage it when possible
- Make the app available in the Self Service web clip and do not manage it

You choose how you want to distribute an app when configuring it for distribution in the JSS. For detailed instructions on distributing an app, see the "Distributing In-House Apps" or "Distributing App Store Apps" section.

The distribution method that you choose affects the following:

- Management status of the app
- Installation of the app
- Installation of updates to the app
- Removal of the app

Prompt Users to Install

This distribution method has a different effect on devices that support managed apps and devices that do not.

On devices that support managed apps, the app is managed. Users are prompted to install the app and any future updates to the app. Removing the app removes it from the devices.

On devices that do not support managed apps, the app is unmanaged. The app and any future updates to the app are displayed in the Self Service web clip. Removing the app removes it from the Self Service web clip only.

Make Available in the Self Service Web Clip and Manage When Possible

This distribution method has a different effect on devices that support managed apps and devices that do not.

On devices that support managed apps, the app is managed. The app and any future updates to the app are displayed in the Self Service web clip. Removing the app removes it from devices that have it installed and from the Self Service web clip.

On devices that do not support managed apps, the app is unmanaged. The app and any future updates to the app are displayed in the Self Service web clip. Removing the app removes it from the Self Service web clip only.

Make Available in the Self Service Web Clip and Do Not Manage

This distribution method makes the app unmanaged on all devices, regardless of whether they support managed apps or not. The app and any future updates to the app are displayed in the Self Service web clip. Removing the app removes it from the Self Service web clip only.

Provisioning Profiles

Provisioning profiles (.mobileprovision) authorize the use of in-house apps. For an in-house app to work, the provisioning profile that authorizes its use must be installed on devices.

If the provisioning profile that authorizes an in-house app is not bundled in the app archive (.ipa) file, you can use the JSS to upload the provisioning profile and associate it with the app.

This section explains how to upload and delete a provisioning profile from the JSS.

For more information on in-house apps and how to distribute an in-house app and its provisioning profile, see the "Distributing In-House Apps" section.

Uploading Provisioning Profiles

If the provisioning profile for an in-house app is not bundled in the archived app (.ipa) file, upload the provisioning profile to the JSS before you distribute the app.

To upload a provisioning profile to the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Mobile Device Profiles** link.
- 4. Click the **Add Profile** button.

5. Select Upload a Provisioning Profile, and then click Continue.



6. Click **Choose File** and select the profile that you want to upload. Then, click **Upload Selected File**. The profile must have a .mobileprovision file extension.

Choose a Provisioning Profile	
Choose a provisioning profile to upload	
Provisioning profiles are created in the iOS Developer Portal.	
Choose File MAMF_Softwaeprovision	
	Cancel

7. Click Save.

Deleting Provisioning Profiles

Deleting a provisioning profile from the JSS removes it from devices that have it installed.

To delete a provisioning profile from the JSS:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Mobile Device Profiles** link.
- 4. Click the **Provisioning Profiles** tab.
- 5. Click the **Delete** link across from the profile, and then click the **Delete** button to confirm.



Distributing In-House Apps

In-house apps are enterprise apps developed through Apple's iOS Developer Enterprise Program that are not available in the App Store.

For more information on Apple's iOS Developer Enterprise Program or to register, visit the following website:

http://developer.apple.com/programs/ios/enterprise/

To distribute an in-house app, add it to the Mobile Device App Catalog in the JSS by uploading the archived app (.ipa) file or entering the URL where the app is hosted. Then, choose how you want to distribute the app and associate it with a provisioning profile. Lastly, specify which devices will receive the app.

Before distributing an in-house app, make sure you have the following:

- The bundle identifier for the app The bundle identifier is the unique identifier for the app. It is located in the app's PLIST file.
- The archived app file or the URL where the app is hosted on a web server

Note: If you are hosting the app from a web server, the MIME type for the archived app file must be "/ application/octet-stream".

 The provisioning profile (.mobileprovision) uploaded to the JSS (See the "Provisioning Profiles" section for instructions and more information.)

The provisioning profile only needs to be uploaded to the JSS if it is not bundled in the archived app file.

To distribute an in-house app:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Mobile Device App Catalog** link.
- 4. Click the **Add App** button.
- 5. Select In-house App, and then click Continue.

lew Mobile Device App	
Choose the type of app you are adding	
🎲 💿 In-house App	
🕞 🔾 App Store App	
	Cancel Continue

6. Enter the app name, bundle identifier, and version number.

Important: The bundle identifier must match the bundle identifier in the app's PLIST file.

App Info	Scope	
	App Name:	
	Bundle ID:	
	Version:	
	Deployment:	Make Available in Self Service \$
		Deploy as managed app (when possible)
		Remove app when MDM profile is removed
		Prevent backup of the app data
	Description:	
		Upload icon
	Hosting Location:	
	App Archive File:	
	Provisioning Profile:	Bundled in IPA +
		Cancel Save

- 7. Choose a distribution method.
 - To prompt users to install the app, choose "Prompt User to Install" from the **Deployment** pop-up menu.
 - To display the app in the Self Service web clip and manage it when possible, choose "Make Available in Self Service" from the **Deployment** pop-up menu and leave the **Deploy as managed app (when possible)** checkbox selected.
 - To display the app in the Self Service web clip and not manage it, choose "Make Available in Self Service" from the **Deployment** pop-up menu and deselect the **Deploy as managed app (when possible)** checkbox.

For more information on unmanaged and managed apps and devices that support managed apps, see the "Understanding Unmanaged and Managed Apps" section.

For more information on each distribution method, see the "Understanding App Distribution Methods" section.

- 8. If you chose to prompt users to install the app or display the app in the Self Service web clip and manage it when possible, select the following management options as needed:
 - Remove app when MDM profile is removed
 - Prevent backup of the app data
- 9. If desired, enter a description and upload an icon to display in the Self Service web clip.

- 10. Choose a hosting location for the app.
 - To host the app from the JSS, choose "Upload to JSS" from the **Hosting Location** pop-up menu. Then, upload the archived app (.ipa) file.
 - If the app is hosted on a web server, choose "Host on web server (recommended for large apps)" from the Hosting Location pop-up menu. Then, enter the URL where the app is hosted.
- 11. Choose the provisioning profile that authorizes the app from the **Provisioning Profile** pop-up menu. If the provisioning profile is bundled in the archived app file, choose "Bundled in IPA".
- 12. Click the **Scope** tab and assign devices to the scope.

op Info	Scope
Mak	e this app available to these Mobile Devices
01	Assign to All Mobile Devices
_	Assign to Specific Mobile Devices dd Mobile Device Groups Add Individual Mobile Devices Add Departments Add Buildings
	te this app available only to users in these groups
	te this app available for installation only in these Network Segments
	Allow Installation from Any IP Address

13. Click Save.

The app is distributed the next time devices in the scope contact the JSS.

Distributing App Store Apps

You can use the JSS to distribute App Store apps to managed mobile devices. To distribute an App Store app, add it to the Mobile Device App Catalog in the JSS by browsing the App Store or entering information about the app manually. Then, choose how you want to distribute the app and specify which devices receive it.

To install an App Store app, users must enter an Apple ID.

You can also use the JSS to distribute Apple's Volume Purchase Program (VPP) codes and view their redemption status.

For more information on Apple's Volume Purchase Program, visit one of the following websites:

- App Store Volume Purchasing for Business: <u>http://www.apple.com/business/vpp/</u>
- App Store Volume Purchasing for Education: <u>http://www.apple.com/education/volume-purchase-program/</u>

To distribute VPP codes for the app, upload the Excel spreadsheet (.xls) that contains the VPP codes to the Mobile Device App Catalog. Each time a user installs the app, a VPP code is redeemed.

To distribute an App Store app:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Mobile Device App Catalog** link.
- 4. Click the **Add App** button.
- 5. Select **App Store App**, and then click **Continue**.

New Mobile Device App	
Choose the type of app you are adding	
🎲 💿 In-house App	
App Store App	
	Cancel Continue

- 6. Add the app to the Mobile Device App Catalog.
 - To browse the App Store, enter the name of the app and choose an App Store country. Then, click **Continue.**
 - To add the app manually, click **Add Manually**, and then skip to step 8.

Enter the name o	of the app you are add	lina
App Nam	ie:	
Use store fro	m: United States	\$

7. Click the **Add** link across from the app.

To preview an app, click the View Page link. The iTunes Preview page opens in a separate browser window.

8. Enter or verify the app name, version number, and URL.

The version number must match the app's version number exactly.

Note: The **Bundle ID** field may be blank. The JSS populates the bundle identifier after the app is distributed.

A pp Info	Scope	OVPP Codes	
		App Name:	UNO? HD
		Version:	1.3.1
		Bundle ID:	
		Free:	
		Deployment:	Make Available in Self Service 💠
		Icon:	Change icon
		App URL:	http://itunes.apple.com/us/app/uno-hd/id364368518?mt
			Cancel

- 9. If you manually added a free app, select the Free checkbox.The Free checkbox is selected automatically if you added a free app by browsing the App Store.
- 10. (Optional) If you manually added the app, upload an icon to display in the Self Service web clip.
- 11. To distribute VPP codes with a paid app, click the **VPP Codes** tab and upload the Excel spreadsheet (.xls) that contains the VPP codes.

Note: The VPP Codes tab is not displayed when the Free checkbox is selected.

lit Mobile	it Mobile Device App							
A		0						
App Info	Scope	VPP Codes						
Volume	Purchase Co		- onal institutio	ns to purchase multiple ilable to end users.	copies			
Upload	VPP Codes P Codes							
	Total Cod							
	eemed Code ailable Code							
C	ode	Status	Date	Username	Device			
			No VPP Co	des				
					Cancel Save			
					Garcer			

- 12. Click the **App Info** tab and choose a distribution method.
 - To prompt users to install the app, choose "Prompt User to Install" from the **Deployment** pop-up menu.

Note: The "Prompt User to Install" option is only displayed for free apps and paid apps with VPP codes.

- To display the app in the Self Service web clip and manage it when possible, choose "Make Available in Self Service" from the **Deployment** pop-up menu and leave the **Deploy as managed app (when possible)** checkbox selected.
- To display the app in the Self Service web clip and not manage it, choose "Make Available in Self Service" from the **Deployment** pop-up menu and deselect the **Deploy as managed app (when possible)** checkbox.

Note: The **Deploy as managed app (when possible)** checkbox is only displayed for free apps and paid apps with VPP codes.

For more information on unmanaged and managed apps and devices that support managed apps, see the "Understanding Unmanaged and Managed Apps" section.

For more information on each distribution method, see the "Understanding App Distribution Methods" section.

- 13. If you chose to prompt users to install the app or display the app in the Self Service web clip and manage it when possible, select the following management options as needed:
 - Remove app when MDM profile is removed
 - Prevent backup of the app data

Edit Mobile I	Device App		
A		6	
App Info	Scope	VPP Codes	
		App Name:	UNO? HD
		Version:	1.3.1
		Bundle ID:	com.gameloft.unoiPad
		Free:	
		Deployment:	Make Available in Self Service \$
			🗹 Deploy as managed app (when possible)
			Remove app when MDM profile is removed
			Prevent backup of the app data
		lcon:	Change icon
		App URL:	http://itunes.apple.com/us/app/uno-hd/id364368518?mt
			Cancel Save
_			

14. Click the **Scope** tab and assign devices to the scope.

pp Info	Scope
Mak	e this app available to these Mobile Devices
\bigcirc	Assign to All Mobile Devices
_	Assign to Specific Mobile Devices dd Mobile Device Groups Add Individual Mobile Devices Add Departments Add Buildings
	te this app available only to users in these groups
Mak	te this app available for installation only in these Network Segments
	te this app available for installation only in these Network Segments

15. Click Save.

The app is distributed the next time devices in the scope contact the JSS.

Updating Apps

To distribute an app update, you must update the app's version number in the Mobile Device App Catalog. For an in-house app update, you must also upload the new archived app (.ipa) file to the Mobile Device App Catalog or to the web server where the app is hosted.

To install an App Store app update, users must enter an Apple ID.

Updates are distributed in the same way that you distributed the app. For a detailed explanation, see the "Understanding App Distribution Methods" section.

To update an app:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the Mobile Device App Catalog link.
- 4. Click the **Edit** link across from the app.

Important: Do not change the bundle identifier. The JSS uses the existing bundle identifier to distribute the update.

- Enter the new version number.
 If you are updating an App Store app, the version number must match the app's version number exactly.
- 6. If you are updating an in-house app that is hosted from the JSS, click the **Upload New App Archive** link and upload the new archived app (.ipa) file.
- 7. If you are updating an in-house app that is hosted on a web server, update the URL in the JSS if necessary.
- 8. Click Save.

The update is distributed the next time devices in the scope contact the JSS.

Removing Apps

To remove an app, remove one or more devices from the scope.

App removal is based the distribution method you chose for the app. For a detailed explanation, see the "Understanding App Distribution Methods" section.

To remove an app:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the **Mobile Device App Catalog** link.
- 4. Click the **Edit** link across from the app.

5. Click the **Scope** tab and remove devices from the scope as needed.

Edit Mol	dit Mobile Device App					
A						
App Inf	o Scope					
	Make this app availabl Assign to All Mobile Assign to Specific Mo Add Mobile Device Group	Devices	vices	Devices		
	Individual Mobile Devices Back to top					
	Mobile Device Name	User	Remove			
	QA-Table3-iPod		Remove			
	QA-Table1-iPad		Remove			
	QA-Table2-iPad		Remove			
•	Make this app availabl Add User Group					
_	Make this app availabl	e for in	stallation	only in these Network Segments		
(Allow Installation from Any IP Address					
(Allow Installation from Specified Network Segments					
				Cancel Save		

6. Click Save.

The app is removed the next time devices that you removed from the scope contact the JSS.

Deleting Apps

Deleting an app from the Mobile Device App Catalog removes the app from devices or from the Self Service web clip.

App removal is based the distribution method you chose for the app. For a detailed explanation, see the "Understanding App Distribution Methods" section.

To delete an app from the Mobile Device App Catalog:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the **Mobile Device App Catalog** link.

4. Click the **Delete** link across from the app, and then click the **Delete** button to confirm.

App Name: Angry Bi Version: 1.6.3	de	
version: 1.6.3	us	

The app is removed the next time devices in the scope contact the JSS.

eBooks

You can use the JAMF Software Server (JSS) to distribute eBooks to managed mobile devices. Distributing an eBook displays it in the Self Service web clip for users to install. After users install an eBook, they can view it with Apple's iBooks app.

This section explains how to distribute eBooks that are hosted internally on a web server (referred to as inhouse eBooks throughout this guide) and eBooks that are available in the iBookstore. It also explains how to edit and delete eBooks.

Requirements

The Casper Suite supports the following eBook file formats:

- ePub (.epub)
- iBooks (.ibooks)
- PDF

Installing an ePub file requires a mobile device with iOS 4 or later and iBooks 1.0 or later.

Installing an iBooks file requires an iPad with iOS 5 or later and iBooks 2.0 or later.

Distributing In-House eBooks

In-house eBooks are eBooks that are hosted internally on a web server. To distribute an in-house eBook, add it to the Mobile Device eBook Catalog in the JSS by entering information about the eBook, including the URL where it is hosted. Then specify which devices display the eBook in the Self Service web clip.

To distribute an in-house eBook:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the Mobile Device eBook Catalog link.
- 4. Click the Add eBook button.

5. Click the Add Manually button.

Enter the	e name or ISI	BN of the eBook y	ou are adding	
	ook Name or ISBN		5	
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- 6. Enter the eBook name and the URL where the eBook is hosted.
- 7. Upload an icon to display in the Self Service web clip.

Edit eBook			
eBook Info	Scope	() VPP Codes	
		eBook Name:	CK-12 Basic Algebra,
		URL:	http://itunes.apple.com/us/book/ck-12-basic-algebra-vol
		Free:	
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8. Click the **Scope** tab and assign devices to the scope.

A Book Info	Scope	මා VPP Codes				
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_	Assign to Specific Mobile Devices Add Mobile Device Groups Add Individual Mobile Devices Add Departments Add Buildings					
(Make this eBook available only to users in these groups Add User Group					
Make	Make this eBook available for installation only in these Network Segments					
	Allow Installation from Any IP Address					
	Allow Installation from Specified Network Segments					

9. Click Save.

The eBook is distributed the next time devices in the scope contact the JSS.

Distributing eBooks Available in the iBookstore

To distribute an eBook that is available in the iBookstore, add it to the Mobile Device eBook Catalog in the JSS by browsing the iBookstore or entering information about the eBook manually. Then specify which devices display the eBook in the Self Service web clip.

You can also use the JSS to distribute Apple's Volume Purchase Program (VPP) codes and view their redemption status.

For more information on Apple's Volume Purchase Program, visit one of the following websites:

- App Store Volume Purchasing for Business: http://www.apple.com/business/vpp/
- App Store Volume Purchasing for Education: <u>http://www.apple.com/education/volume-purchase-program/</u>

To distribute VPP codes for the eBook, upload the Excel file (.xls) that contains the VPP codes to the Mobile Device eBook Catalog. Each time a user installs the eBook, a VPP code is redeemed.

To distribute an eBook available in the iBookstore:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the Mobile Device eBook Catalog link.
- 4. Click the Add eBook button.
- 5. Add the eBook to the Mobile Device eBook Catalog.
 - To browse the iBookstore, enter the name or International Standard Book Number (ISBN) for the eBook and choose an iBookstore country. Then, click Continue.
 - To add the eBook manually, click **Add Manually**, and then skip to step 7.

Note: iBooks files may need to be added manually.

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Use s	tore from: United States	\$

6. Click the **Add** link across from the eBook that you want to distribute.

To preview an eBook, click the **View Page** link. The iTunes Preview page opens in a separate browser window.

7. Enter or verify the eBook name and URL.

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- If you manually added a free eBook, select the Free checkbox.
 The Free checkbox is selected automatically if you added a free eBook by browsing the iBookstore.
- 9. If you manually added the eBook, upload an icon to display in the Self Service web clip.
- 10. To distribute VPP codes with a paid eBook, click the **VPP Codes** tab and upload the Excel spreadsheet (.xls) that contains the VPP codes.

Note: T	he VPP (C odes tak	o is not	displayed wł	nen the Fre	e checkbox is selected.
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11. Click the **Scope** tab and assign devices to the scope.

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⊖ As	Assign to All Mobile Devices					
	Assign to Specific Mobile Devices					
Add	Mobile Device	Groups Add Individual Mobile Devices Add Departments Add Buildings				
Make	this eBook	available for installation only in these Network Segments				
	Allow Installation from Any IP Address					
	Allow Installation from Specified Network Segments					
		Cancel				

12. Click Save.

The eBook is distributed the next time devices in the scope contact the JSS.

Editing eBooks

Editing an eBook in the Mobile Device eBook Catalog allows you to do the following:

- Change the eBook name and icon displayed in the Self Service web clip
- Change the URL
- Modify the scope
- Clear VPP codes

To edit an eBook:

- 1. Log in to the JSS with a web browser.
- 2. Click the Management tab.
- 3. Click the Mobile Device eBook Catalog link.

4. Click the **Edit** link across from the eBook and make the necessary changes.

Edit eBook			
eBook Info	Scope	(VPP Codes	
_			Cancel Save

5. Click Save.

The changes are applied the next time devices in the scope contact the JSS.

Deleting eBooks

Deleting an eBook from the Mobile Device eBook Catalog removes the eBook from the Self Service web clip.

To delete an eBook from the Mobile Device eBook Catalog:

- 1. Log in to the JSS with a web browser.
- 2. Click the **Management** tab.
- 3. Click the Mobile Device eBook Catalog link.
- 4. Click the **Delete** link across from the eBook, and then click the **Delete** button to confirm.

The eBook is removed the next time devices in the scope contact the JSS.