



Recon Suite Administrator's Guide

Version 8.7

JAMF Software, LLC
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JAMF Software has made all efforts to ensure that this guide is accurate.

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Contents

5	Overview of Technologies
5	Applications and Utilities
7	Security
8	Ports
10	Requirements
13	Installing and Managing the JSS
13	Required Components
14	Installing the JSS on Mac OS X Server
17	Allocating Additional Memory to Tomcat
19	Setting Up the JSS
22	Upgrading the JSS
23	Changing the Activation Code
24	Backing Up the Database
27	Restoring Database Backups
28	Deleting Logs from the Database
30	Migrating to Another Server
31	Enabling Email Notifications
33	Enabling Change Management
35	Integrating with GSX
37	Generating a Web Server Certificate
38	Enabling Clustering
40	Configuring Tomcat to Work with a Load Balancer
41	Changing the Limited Access Setting
43	Frequently Asked Questions
45	Troubleshooting the JSS
48	Building Your Framework
48	Integrating with LDAP Servers
56	Managing JSS User Accounts
61	Managing Buildings and Departments
63	Changing the Frequency of Inventory Reports
64	Managing Inventory Preferences
73	Configuring the User-Initiated Acquisition Process
74	Managing Peripheral Types
76	Inventory
76	Acquiring Mac OS X Computers
87	Acquiring Windows Computers

91	Acquiring Mobile Devices
92	Searching Computers
105	Searching Peripherals
110	Searching Mobile Devices
118	Searching Software Inventory
123	Performing Mass Actions on Computer Search Results
126	Performing Mass Actions on Mobile Device Search Results
129	Editing Computer Records
131	Editing Mobile Device Records
134	Deleting Computers from the JSS
135	Deleting Mobile Devices from the JSS
136	Suppressing Software from Reports
137	Managing Custom Reports
140	License Management
140	Creating Licensed Software Records
147	Reporting on Licensed Software
153	Sending Notifications on Licensed Software Violations

Overview of Technologies

Applications and Utilities

This section describes the applications and utilities that make up the Recon 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 an installation package that allows you to install and upgrade the JSS on Mac OS X Server. It also allows you to create your initial distribution point during a fresh installation.

Note: The JSS Installer for Mac included in the product DMG (JSS_Installer.mpkg) is unsigned. To obtain a signed version of the JSS Installer for Mac (JSS_Installer.pkg), contact JAMF Software Support. The signed version allows you to install or upgrade the JSS when Apple's Gatekeeper feature is set to only allow applications downloaded from the Mac App Store and identified developers.

JSS Installers for Linux and Windows

The JSS Installers for Linux and Windows allow you to 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

JAMF Software Server

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

The JSS allows you to collect and view inventory for computers and mobile devices.

Recon

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

Windows Applications

Recon.exe

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

Utilities

JSS Database Utility

The JSS Database Utility allows you to 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 Recon 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 run by the Recon Suite.

Security

This section explains the primary security measures in the Recon Suite:

- Passwords
- Communication protocols
- Signed applications

Passwords

The Recon Suite allows you to 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

The Recon Suite has security built into its design. Connections between the JAMF Software Server (JSS) and the other applications in the Recon Suite take place over Secure Sockets Layer (SSL).

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:

<https://www.openssl.org/>

Signed Applications

The following applications are signed by JAMF Software:

- JSS Installer for Windows (JSS_Installer.msi)
- Recon
- Recon.exe
- /usr/sbin/jamf (jamf binary)

A signed version of the JSS Installer for Mac (JSS_Installer.pkg) is also available. You can obtain it by contacting JAMF Software Support.

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.
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 and enrolled computers and 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 and computers 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.

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.

Requirements

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

- JAMF Software Server
- JSS Installers
- JSS Database Utility
- Inventory

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:

- OS X Server v10.6
- OS X Server v10.7
- OS X Server v10.8
- Ubuntu 10.04 LTS Server
- Ubuntu 12.04 LTS Server
- Red Hat Enterprise Linux (RHEL) 6
- Windows Server 2008 R2

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
- OS X Server v10.6 or later
- Java 1.6

- MySQL Enterprise Edition 5.5 or later (recommended) or MySQL Community Server 5.5 or later, available at:
<https://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. To obtain the JSS Installer for Linux or Windows along with its installation guide, contact your JAMF Software Representative, or visit the following website and log in with a valid JAMF Nation account:

<https://jamfnation.jamfsoftware.com/myAssets.html>

JSS Database Utility

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

Inventory

Recon can run locally on the following operating systems:

- OS X v10.5.x
- OS X v10.6.x
- OS X v10.7.x
- OS X v10.8.x
- Windows 2000
- Windows XP
- Windows Server 2003
- Windows Vista
- Windows Server 2008
- Windows 7

Recon can remotely acquire computers with the following operating systems:

- OS X v10.5.x
- OS X v10.6.x
- OS X v10.7.x
- OS X v10.8.x

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

- Mac OS v8.6
- Mac OS v9.x
- OS X v10.1.x
- OS X v10.2.x
- OS X v10.3.x
- OS X v10.4.x
- Windows NT4
- Windows ME

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

Installing and Managing the 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:

<https://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:

<https://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 details 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 Installer for Windows or Linux along with its installation guide, contact your JAMF Software Representative, or visit the following website and log in with a valid JAMF Nation account:

<https://jamfnation.jamfsoftware.com/myAssets.html>

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 that can access it. Name the database "jamfsoftware" and give the MySQL user the following credentials:

- Username: jamfsoftware
- Password: jamfsw03

Note: If you customize the database name, username, 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 OS X v10.7 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 username 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.

To run the JSS Installer:

1. Copy the JSS Installer for Mac to the server.

Note: The JSS Installer for Mac included in the product DMG (`JSS_Installer.mpkg`) is unsigned. To obtain a signed version of the JSS Installer for Mac (`JSS_Installer.pkg`), contact JAMF Software Support. The signed version allows you to install or upgrade the JSS when Apple's Gatekeeper feature is set to only allow applications downloaded from the Mac App Store and identified developers.

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 drive 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

This section explains how to:

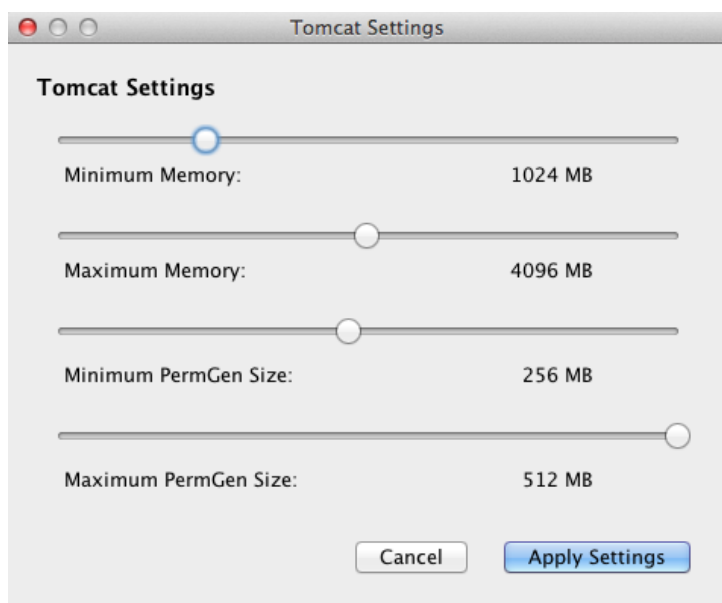
- View the amount of memory being used by the web application
- Allocate additional memory to Tomcat

To view web application memory usage:

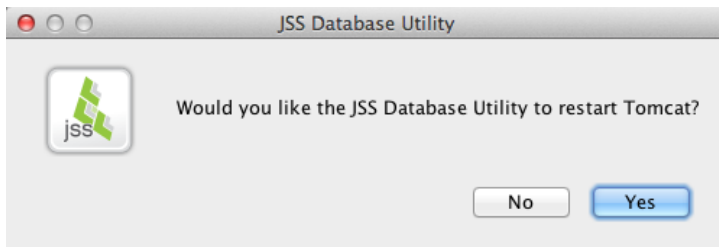
1. Log in to the JSS with a web browser.
2. Click the **Settings** tab.
3. Click the **Database/Web Application Health** link.
4. Click the **Web App Memory** link.

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

1. Open the JSS Database Utility on the server running the JSS.
The JSS Database Utility is located in:
`/Library/JSS/bin/JSSDatabaseUtil.jar`
2. Enter the username 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 enter the path. Click **Continue** and enter the location of the binary.
4. From the menu bar, choose **Utilities > Change Tomcat settings**.
5. Modify the minimum and maximum memory and PermGen sizes as needed.



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



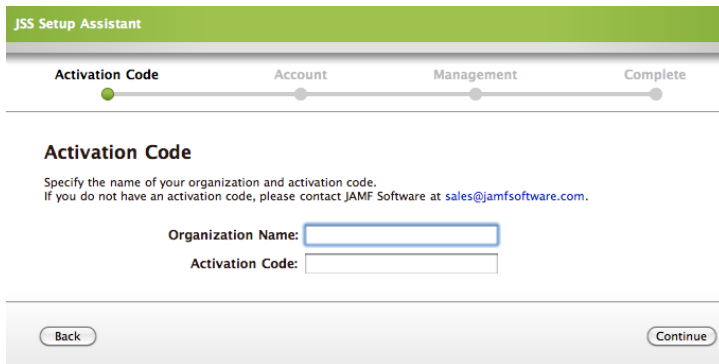
Setting Up the JSS

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:

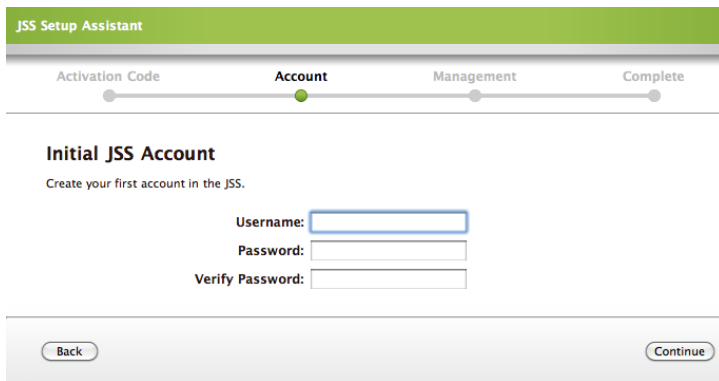
1. Connect to the JSS with a web browser.
2. Read the License Agreement and click **Agree**.
3. Enter the name of your organization and the activation code you received from your JAMF Software Representative, and then click **Continue**.

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



The screenshot shows the 'JSS Setup Assistant' window. At the top, a green header bar contains the title. Below it, a progress bar shows four steps: 'Activation Code' (selected with a green dot), 'Account', 'Management', and 'Complete'. The main content area is titled 'Activation Code' and includes instructions: 'Specify the name of your organization and activation code. If you do not have an activation code, please contact JAMF Software at sales@jamfsoftware.com.' There are two input fields: 'Organization Name:' and 'Activation Code:'. At the bottom, there are 'Back' and 'Continue' buttons.

4. Enter a username and password for your first administrator account in the JSS.



The screenshot shows the 'JSS Setup Assistant' window. The progress bar now shows 'Account' as the selected step (green dot). The main content area is titled 'Initial JSS Account' and includes instructions: 'Create your first account in the JSS.' There are three input fields: 'Username:', 'Password:', and 'Verify Password:'. At the bottom, there are 'Back' and 'Continue' buttons.

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

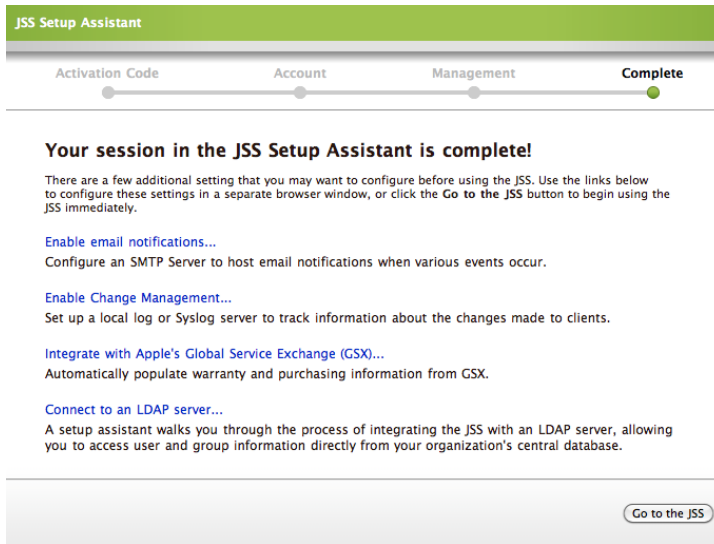
6. Choose how often you want computers to submit inventory reports to the JSS, and then click **Continue**. This automatically creates a policy to enforce the inventory schedule. For more information on how policies work, see the “Policies” section.

The screenshot shows the 'JSS Setup Assistant' window with a progress bar at the top indicating four steps: 'Activation Code', 'Account', 'Management' (the current step, highlighted with a green dot), and 'Complete'. Below the progress bar, the title is 'How often do you want clients to submit inventory reports?'. A subtext reads: 'A Policy is automatically created to enforce this task.' There are four radio button options: 'Once every day', 'Once every week' (which is selected), 'Once every month', and 'Configure manually later'. At the bottom of the window are two buttons: 'Back' on the left and 'Continue' on the right.

7. Verify that the settings are configured correctly and click the **Save** button. If you need to make changes, click the **Back** button or make changes in the JSS after you're finished using the JSS Setup Assistant.

The screenshot shows the 'JSS Setup Assistant' window with the progress bar now showing 'Complete' as the final step, highlighted with a green dot. The title is 'Verify Settings'. Subtext reads: 'Make sure the settings below are configured correctly, and then click the Save button. Use the Back button to make changes, if necessary, or make changes in the JSS after your session is complete.' The settings are listed as follows: 'Organization: My Company', 'License Type: Trial', 'License Expires: Sunday, August 01 2010', 'Product: Recon Suite', and 'Licensed for: 1 clients'. Below these settings is a line 'Update Inventory: Once every week'. At the bottom of the window are two buttons: 'Back' on the left and 'Save' on the right.

8. Click the **Go to the JSS** button to start using the JSS immediately, or use the links to configure additional settings in a separate browser window.



Upgrading the JSS

This section explains how 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. Back up custom reports.

If you used the JSS Installer to install the JSS on Mac OS X Server, custom reports are located in `/Library/JSS/Tomcat/webapps/ROOT/WEB-INF/reporting/`.

If you did not use the JSS Installer to install the JSS on Mac OS X Server, custom reports are located in `/Library/Tomcat/webapps/ROOT/WEB-INF/reporting/`.

3. Copy the most current version of the JSS Installer for Mac to the server.

Note: The JSS Installer for Mac included in the product DMG (`JSS_Installer.mpkg`) is unsigned. To obtain a signed version of the JSS Installer for Mac (`JSS_Installer.pkg`), contact JAMF Software Support. The signed version allows you to install or upgrade the JSS when Apple’s Gatekeeper feature is set to only allow applications downloaded from the Mac App Store and identified developers.

4. Double-click the installer and click **Continue**.
5. When the Introduction pane appears, click **Continue**.
6. Read the information on the Read Me pane, and then click **Continue**.
7. Select a drive on which to install the software, and then click **Continue**.
8. 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.

9. Click **Install**.
10. Enter your administrator password when prompted, and then click **OK**.
11. 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.

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. Enter the new activation code in the **Activation Code** field and click **Save**.

Backing Up the Database

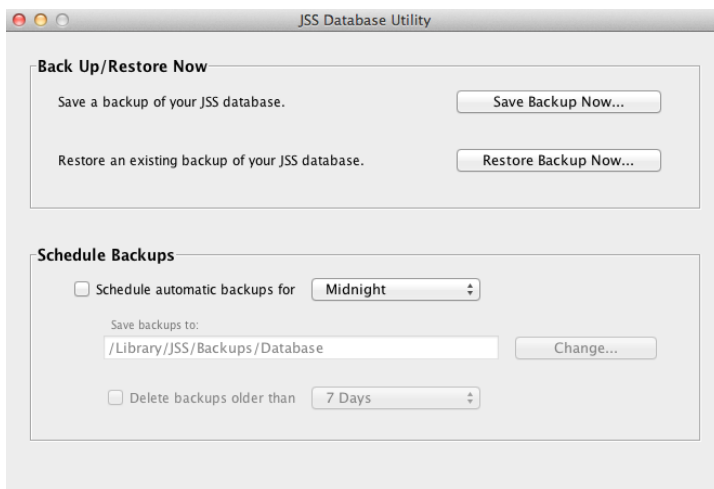
The JSS Database Utility allows you to create backups of the jamfsoftware database, schedule database backups, and stop scheduled database backups.

Creating Database Backups

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:

1. Open the JSS Database Utility, located in:
`/Library/JSS/bin/JSSDatabaseUtil.jar`
2. Enter the username 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 enter the path. Click **Continue** and enter 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**.



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

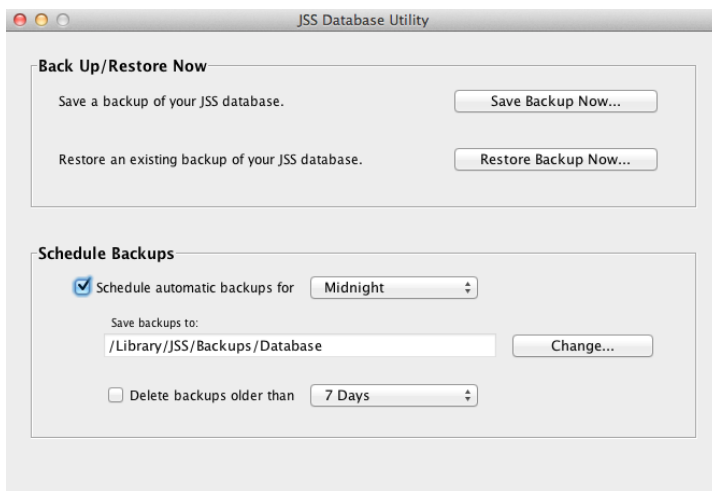
The JSS Database Utility creates the backup and saves it as a .sql.gz file.

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:

1. Open the JSS Database Utility, located in:
`/Library/JSS/bin/JSSDatabaseUtil.jar`
2. Enter the username 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.



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.

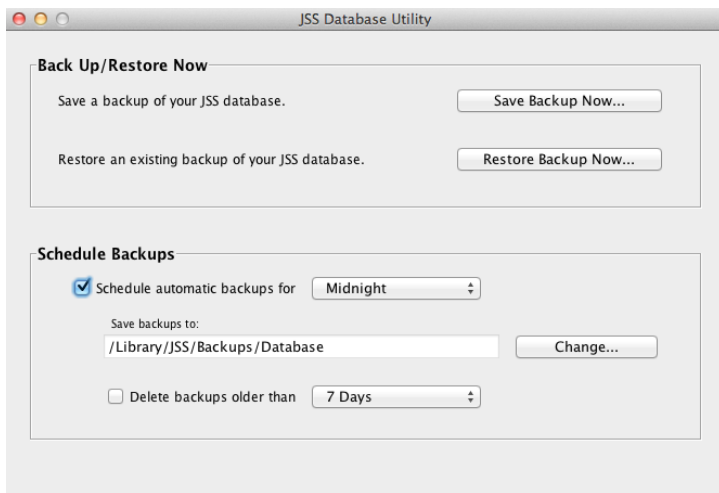
The JSS Database Utility saves daily backups at the hour that you specified. It also deletes scheduled backups older than the number of days that you specified.

Stopping Scheduled Database Backups

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

To stop scheduled database backups:

1. Open the JSS Database Utility, located in:
`/Library/JSS/bin/JSSDatabaseUtil.jar`
2. Enter the username 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 enter the path. Click **Continue** and enter 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.



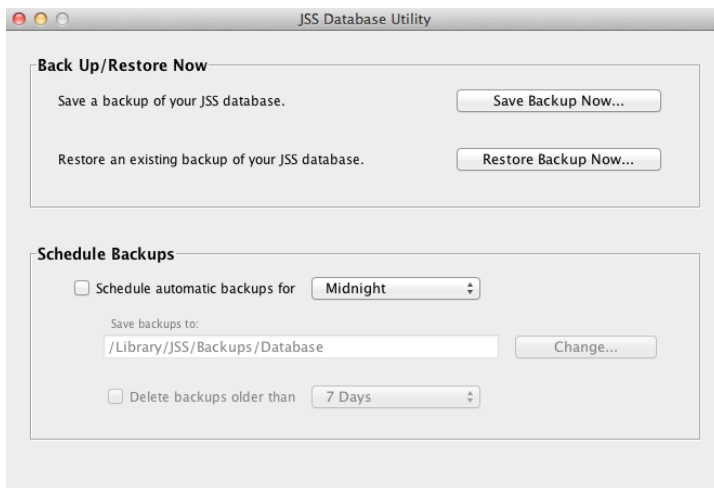
The JSS Database Utility stops scheduled backups immediately.

Restoring Database Backups

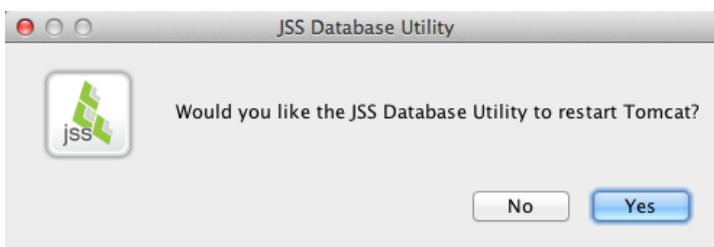
If you need to revert to an earlier version of your database, you can use the JSS Database Utility to restore a database backup.

To restore a database backup:

1. Open the JSS Database Utility, located in:
`/Library/JSS/bin/JSSDatabaseUtil.jar`
2. Enter the username 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 enter the path. Click **Continue** and enter 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**.



6. Select the backup that you want to restore (.sql or .sql.gz), and then click **Choose**.
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.

Flush Database Logs

Logs that are older than the times specified will be automatically deleted from the JSS at the time specified.
The JSS will not delete the last inventory report for a computer 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

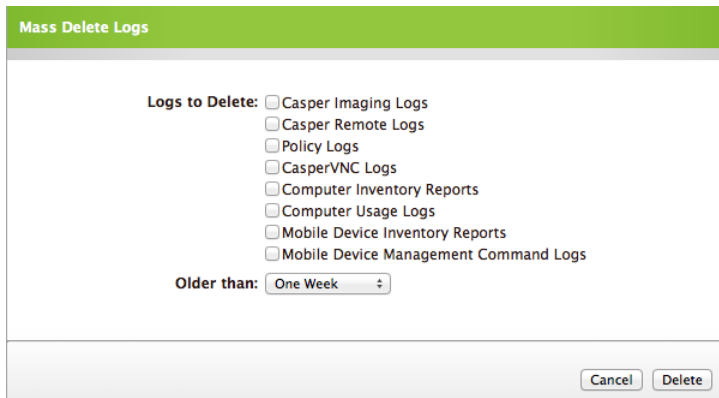
Flush Manually Cancel Save

5. 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.



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.

Migrating to Another Server

The instructions in this section explain how to migrate the JAMF Software Server (JSS) to another server.

To migrate the JSS:

1. Back up the existing jamfsoftware database using the JSS Database Utility. (See “Backing Up the Database” for detailed instructions.)
2. Ensure that the new server meets the requirements for the JSS Installer. Then, follow the instructions in “Installing the JSS” to install the required software (if needed) and create the jamfsoftware database.
3. Copy the JSS Installer to the new server.
4. Install the JSS by launching the installer and following the onscreen instructions. (See “Installing the JSS” for detailed instructions.)
5. Copy the database backup to the new server, and then use the JSS Database Utility to restore the backup. (See “Restoring a Database Backup” for detailed instructions.)
6. Regenerate the web server certificate. (See “Generating a Web Server Certificate” for detailed instructions.)
7. Update the DNS entry to point to the new server’s IP address.

Note: If you can’t change the DNS entry, you must change the JSS URL and re-enroll all mobile devices and computers.

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.

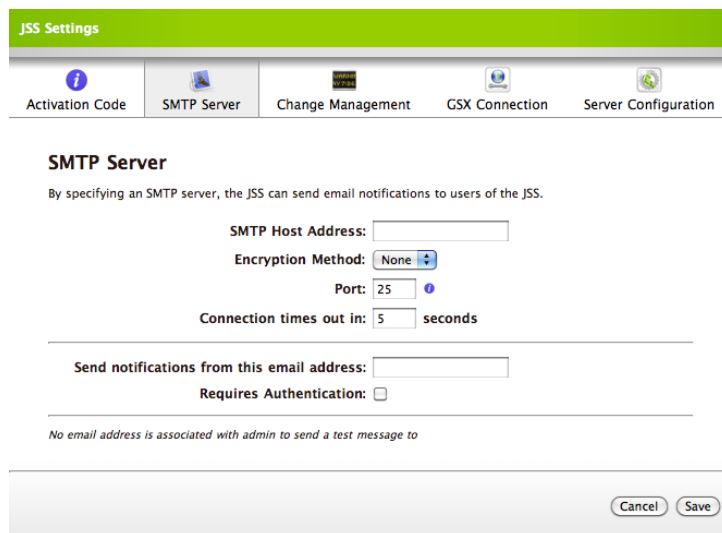
Email notifications can be sent when the following events occur:

- There is a JSS service restart.
- A database is backed up successfully.
- A database backup fails.

This section explains 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.



The screenshot shows the 'JSS Settings' window with the 'SMTP Server' tab selected. The page has a green header bar with the title 'JSS Settings'. Below the header is a navigation bar with five tabs: 'Activation Code', 'SMTP Server' (selected), 'Change Management', 'GSX Connection', and 'Server Configuration'. The main content area is titled 'SMTP Server' and contains the following fields and options:

- SMTP Host Address:** A text input field.
- Encryption Method:** A dropdown menu currently set to 'None'.
- Port:** A text input field with the value '25' and a help icon.
- Connection times out in:** A text input field with the value '5' followed by the word 'seconds'.
- Send notifications from this email address:** A text input field.
- Requires Authentication:** A checkbox that is currently unchecked.

At the bottom of the form, there is a note: 'No email address is associated with admin to send a test message to'. At the very bottom of the window are 'Cancel' and 'Save' buttons.

6. Use the **Encryption Method** pop-up menu to specify the protocol used for data encryption.
7. In the **Port** field, enter the port over which the connection is made. The default port is 25.

8. Enter the number of seconds you want to wait before the connection times out.
By default, this is 5 seconds.
9. Enter the email address from which notifications will be sent.
10. If the SMTP server requires authentication, select the **Requires Authentication** checkbox and enter credentials for a valid account to the server.

The screenshot shows the 'JSS Settings' window with the 'SMTP Server' tab selected. The window has a green header bar with the title 'JSS Settings'. Below the header is a navigation bar with five tabs: 'Activation Code', 'SMTP Server', 'Change Management', 'GSX Connection', and 'Server Configuration'. The 'SMTP Server' tab is active, showing the following fields and options:

- SMTP Host Address:** A text input field.
- Encryption Method:** A dropdown menu with 'None' selected.
- Port:** A text input field with '25' entered.
- Connection times out in:** A text input field with '5' entered, followed by the word 'seconds'.
- Send notifications from this email address:** A text input field.
- Requires Authentication:** A checkbox that is checked.
- Username:** A text input field.
- Password:** A text input field.
- Verify Password:** A text input field.

At the bottom of the window, there is a note: 'No email address is associated with admin to send a test message to'. At the very bottom right, there are two buttons: 'Cancel' and 'Save'.

11. If you want to send a test message, click the **Send Test message to <email address>** link.
The JSS sends this message to the email address for the account currently logged in to the JSS.
12. Click **Save**.

Enabling Change Management

Change management logs allow you to 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)
- Username of the account that initiated the change
- IP address of the client computer that triggered the event
- JSS identifier (com.jamfsoftware.jss)

This section explains 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 enter a directory location for the log file.

The screenshot shows the 'JSS Settings' window with the 'Change Management' tab selected. The page has a green header bar with the title 'JSS Settings'. Below the header is a navigation bar with five tabs: 'Activation Code', 'SMTP Server', 'Change Management' (which is active), 'GSX Connection', and 'Server Configuration'. The main content area is titled 'Change Management' and contains the following elements:

- A sub-header 'Change Management' followed by a note: 'The JSS can be configured to log all changes to a log file or a Syslog server.'
- A checkbox labeled 'Enable Change Management' which is checked.
- Two input fields: 'Log Directory:' with the value '/var/log' and 'Size of Log File (MB):' with the value '10'.
- A section titled 'Syslog Daemon Definitions' with two input fields: 'Hostname:' and 'Port (Default is 514):' with the value '514'.
- At the bottom right, there are 'Cancel' and 'Save' buttons.

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. Enter the UDP port that the Syslog server is using.

The port is entered as 514 by default.

JSS Settings

Activation Code | SMTP Server | **Change Management** | GSX Connection | Server Configuration

Change Management

The JSS can be configured to log all changes to a log file or a Syslog server.

☒ **Enable Change Management**

Log Directory:

Size of Log File (MB):

Syslog Daemon Definitions

Hostname:

Port (Default is 514):

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:

<https://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.

This section explains 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.

The screenshot shows the 'JSS Settings' window with the 'GSX Connection' tab selected. The window has a green title bar and a navigation bar with icons for Activation Code, SMTP Server, Change Management, GSX Connection, and Server Configuration. The main content area is titled 'GSX Connection' and contains the following elements:

- A sub-header: 'The JSS utilizes Apple's Global Service Exchange to lookup warranty information for Apple hardware.'
- A checked checkbox: 'Enable connection to GSX'.
- Four text input fields: 'GSX Account Number:', 'Username:', 'Password:', and 'Verify Password:'.
- A dropdown menu: 'Choose Region:' with 'Americas' selected.
- A text label: 'Date Format: MonthDayYear'.
- A search icon and text: 'Test the connection at gsxws2.apple.com/gsx-ws/services/am/asp'.
- Two buttons at the bottom right: 'Cancel' and 'Save'.

7. Enter the username and password for your GSX account, and then enter the password again to verify it.
8. 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

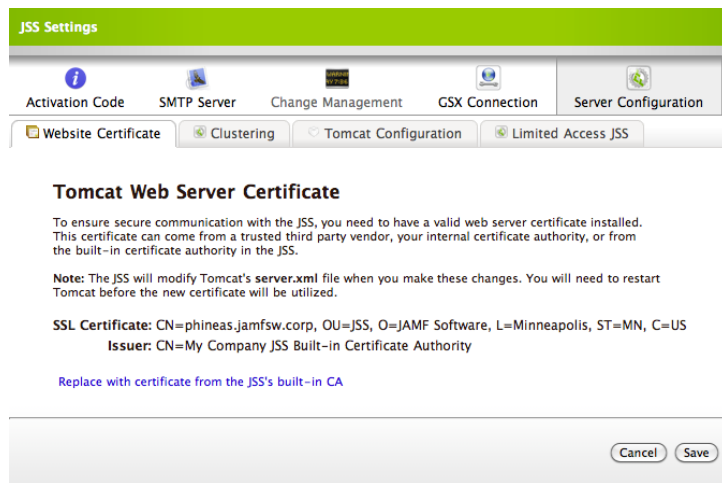
The JAMF Software Server (JSS) requires a valid web server certificate to ensure that computers communicate with the JSS and not an imposter server.

If you already have a web server certificate from an internal certificate authority (CA) or a trusted third-party 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.



6. Click **Save**.
 7. 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.

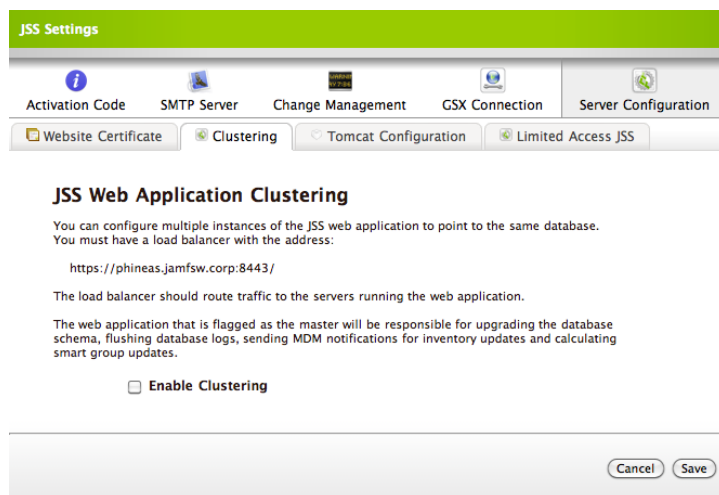
The web application that functions as the master handles the following tasks:

- 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 **Master** link.
9. Click **Save**.

10. Restart Tomcat for the changes to take effect.

For instructions on how to restart Tomcat, see the Knowledge Base article at:

<https://jamfnation.jamfsoftware.com/article.html?id=117>

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.

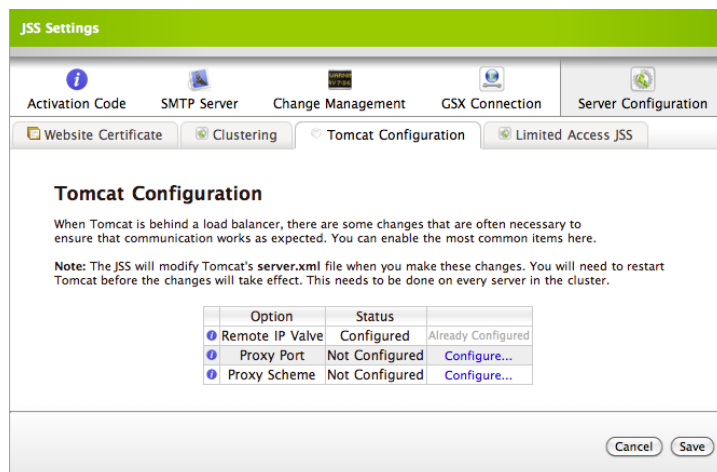
The JAMF Software Server (JSS) allows you to enable the following attributes without requiring you to access the `server.xml` file manually:

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

Changing the Limited Access Setting

When working in a clustered environment, you may have a JAMF Software Server (JSS) that computers 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.

The Limited Access setting has four options:

- **Full JSS**—This is the default option for every JSS. It makes the JSS interface available from anywhere.
- **Computer and Mobile Device Management**—This option is not applicable to the Recon Suite.
- **Computer Management Only**—This option disables the JSS interface.
- **Mobile Device Management Only**—This option is not applicable to the Recon Suite.

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`.

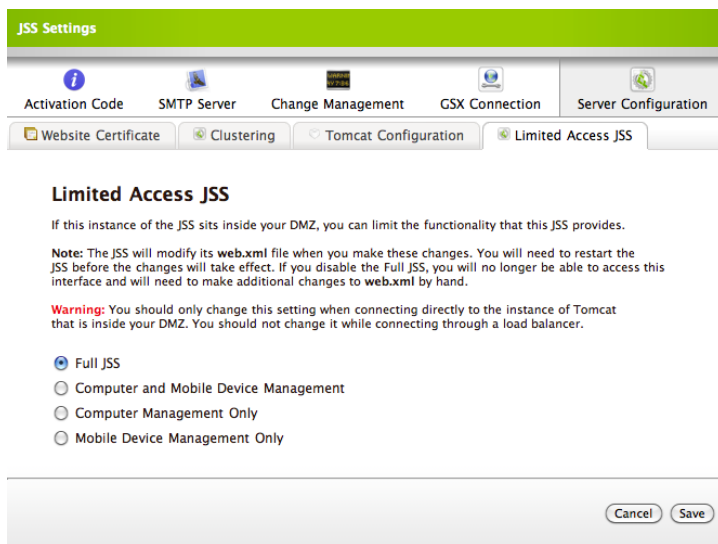
Note: If you upgraded from v8.1 or earlier, the `web.xml` and `web.xml.original` files are located in `/Library/Tomcat/webapps/ROOT/WEB-INF/`.

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 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 in:

`/Library/JSS/Tomcat/`

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 in:

`/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 OS X Server v10.6. 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/ROOT/.

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:

- OS X Server v10.8
- OS X Server v10.7
- OS X Server v10.6
- 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 issues with the JSS have to do with the configuration of Apache Tomcat or MySQL. The JSS Database Utility allows you to troubleshoot most of the issues that you encounter.

This section explains how to troubleshoot the following issues:

- Connection issues
- Memory issues
- Database issues

Connection Issues

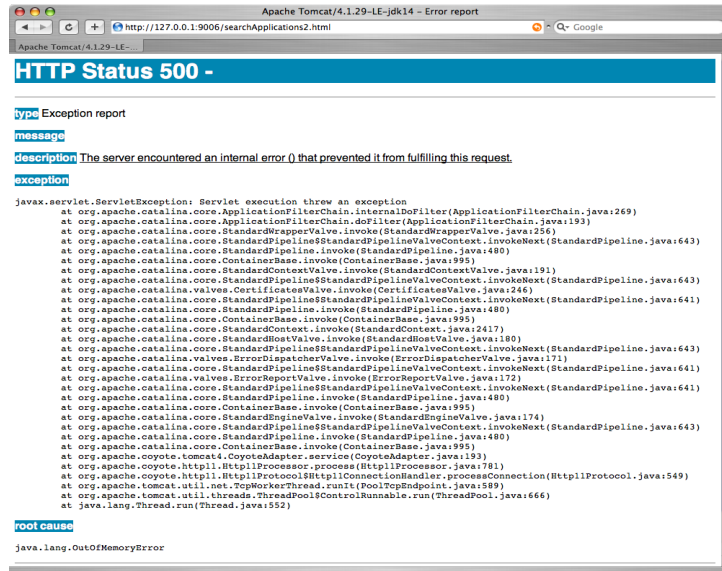
If applications are not connecting to the JAMF Software Server (JSS), you can use a web browser to troubleshoot the issue. If you are able to connect to the JSS, the applications should be able to connect as well.

To troubleshoot connection issues:

1. 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 username and password for an administrator account to the server, and then click **OK**.
4. If the application still fails to connect, restart Tomcat.
For instructions on how to restart Tomcat, see the Knowledge Base article at:
<https://jamfnation.jamfsoftware.com/article.html?id=117>

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:



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, or if the server running the JSS crashed and the database was not shut down properly.

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

Got error 127 from table handler

This section explains how to:

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

Viewing the Status of 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 allows you to 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.

Building Your 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:

- Look up and populate user information for inventory purposes
- Authenticate users to the Recon Suite

Note: Integrating with Open Directory allows the JSS to access both user and computer list information. For details on accessing computer list information from Open Directory, see the “Adding LDAP Server Connections Manually” section.

This section explains how to:

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

Using the LDAP Server Connection Assistant

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

The assistant allows you to integrate with the following directory services:

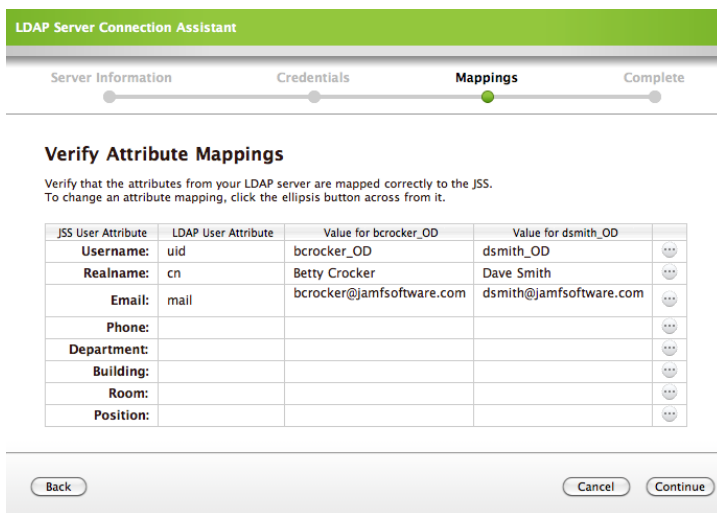
- Apple’s Open Directory
- Microsoft’s Active Directory
- Novell’s eDirectory

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. Enter credentials for the LDAP service account and click **Continue**.
8. For testing purposes, enter the usernames for two different accounts in the LDAP server and click **Continue**.
9. Verify the returned attribute mappings are correct. If the attribute mappings are correct, click **Continue** and skip to step 11.



LDAP Server Connection Assistant

Server Information Credentials **Mappings** Complete

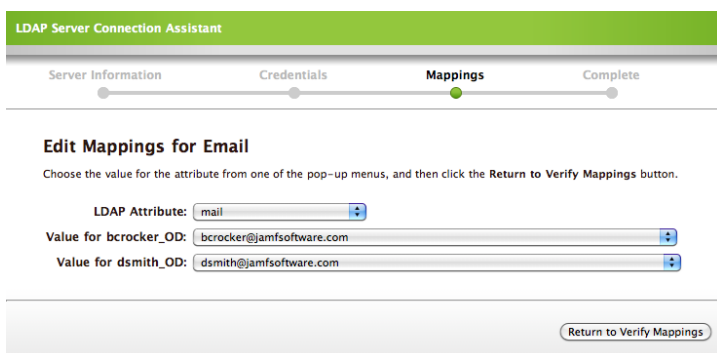
Verify Attribute Mappings

Verify that the attributes from your LDAP server are mapped correctly to the JSS.
To change an attribute mapping, click the ellipsis button across from it.

JSS 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:				...

Back Cancel Continue

10. If an attribute mapping is incorrect, change the mapping appropriately.
 - a. Click the **Ellipsis** button across from the mapping.
 - b. Choose the correct value for the attribute from one of the pop-up menus.



LDAP Server Connection Assistant

Server Information Credentials **Mappings** Complete

Edit Mappings for Email

Choose the value for the attribute from one of the pop-up menus, and then click the **Return to Verify Mappings** button.

LDAP Attribute: mail

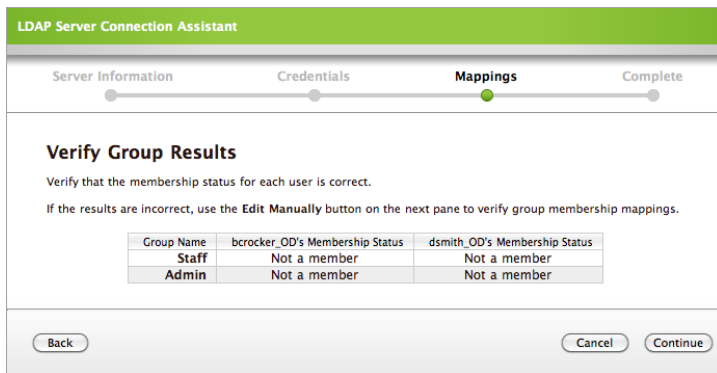
Value for bcrocker_OD: bcrocker@jamfsoftware.com

Value for dsmith_OD: dsmith@jamfsoftware.com

Return to Verify Mappings

- 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**.



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 LDAP Server Connections 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:

- Integrate with directory services 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 LDAP Server Connections" 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 allows you to configure how the JSS connects to an LDAP server.

Edit LDAP Server Connection

Connection Mappings

Display Name:

Host name:

☐ Encrypt using SSL

☐ Use custom port

Use for:

Create Mappings Based On:

Domain:

Authentication Type:

Open/Close times out in: seconds

Connection times out in: seconds

Referrals:

☒ Use wildcards when searching for objects

Cancel Save

Display name

This field allows you to enter a display name for the LDAP server.

Host name

This field allows you to enter 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 allows you to specify the type of information you want to access from the LDAP server.

Create Mappings Based On

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

Domain

This field allows you to enter the domain for the LDAP server.

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 service account.

Most LDAP servers require simple authentication.

Open/Close times out in ____ seconds

This field allows you to enter 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 allows you to enter 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 allows you to choose 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 allows you to 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.

The screenshot shows the 'Edit LDAP Server Connection' dialog with the 'Mappings' tab selected. The 'Users' section is active, showing a 'Map Users to' dropdown set to 'All' and a button to 'ObjectClass values below'. Below this are input fields for 'ObjectClass:' (with a '(Comma separated)' hint) and 'Search Base:'. There are two radio buttons for search scope: 'all subtrees' (selected) and 'first level only'. A list of LDAP attributes follows, each with a 'Map' label and an input field: '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:', and 'Map User UUID to:'. At the bottom, there is a checked checkbox labeled 'Bindable String Representation Needed'.

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.

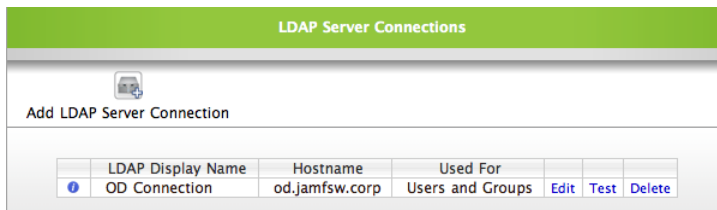
Testing LDAP Server Connections

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.

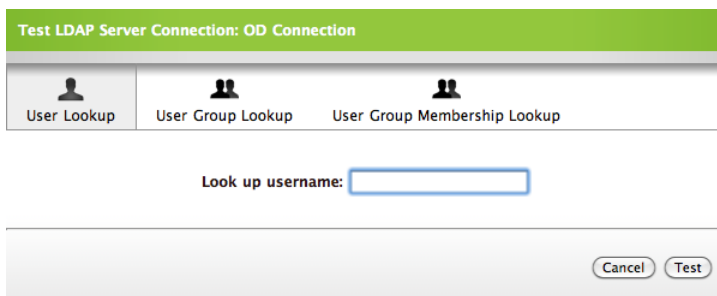
This section explains how to look up user and computer list information.

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.



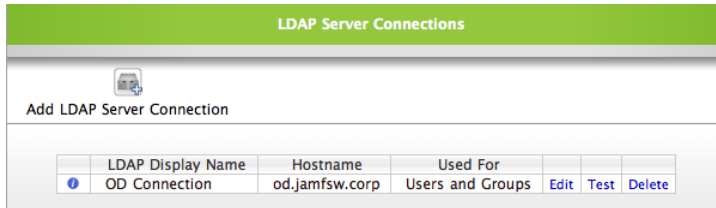
5. Click the **User Lookup**, **User Group Lookup**, or **User Group Membership Lookup** tab.
6. Enter information in the field(s) provided.



7. 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** link across from the Open Directory connection you want to test.



5. Click the **Computer Lookup**, **Computer Group Lookup**, or **Computer Group Membership Lookup** tab.
6. Enter information in the field(s) provided.
7. Click the **Test** button.

Editing LDAP Server Connections

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.
4. 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 LDAP Server Connections Manually" section.
5. Click the **Save** button.

Deleting LDAP Server Connections

To delete an LDAP server connection from the JSS:

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 to confirm.

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 allows 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:

<https://directory.apache.org/studio/>

Workgroup Manager

Apple's Workgroup Manager allows you to 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. From the menu bar, choose **Workgroup Manager > Preferences**.
4. Select the **Show "All Records" tab and inspector** checkbox, 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 service. You can also grant access to groups from an LDAP server.

This section explains how to:

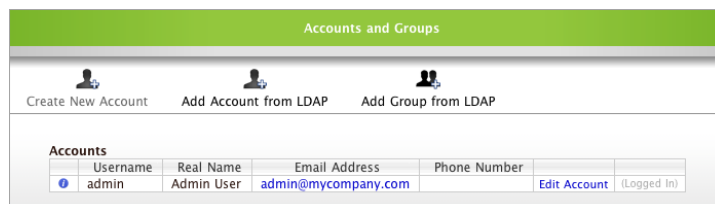
- Create a new user account in the JSS
- Add a user account from an LDAP server
- Upgrade the Distinguished Name (DN) from an LDAP account
- Grant access to a group from an LDAP server

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.



5. Enter user information on the Account pane.

Create New Account

Account Privileges API Privileges Notifications

Username: JSS User

Realname:

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

Account Privileges API Privileges Notifications

[Grant All Privileges](#)
[Revoke All Privileges](#)

JSS - Home Tab Privileges

☒ Change Password

JSS - Inventory Tab Privileges

☒ View Inventory Tab

☒ Perform Advanced Searches

☒ 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 Notifications

	Read	Update	Create	Delete
Buildings	<input checked="" type="checkbox"/>			
Categories	<input checked="" type="checkbox"/>			
Computers	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Computer Groups	<input type="checkbox"/>			
Departments	<input type="checkbox"/>			

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

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

The screenshot shows the 'Create New Account' dialog box with the 'Notifications' tab selected. The 'Account' tab is also visible. The 'Notifications' section has two links: 'Set All Notification Events' and 'Revoke All Notification Events'. Below these links is a section titled 'Imaging Notifications' with two checkboxes, both of which are checked: 'Computer Added from PreStage' and 'Imaging/Autorun Error'.

- Click **Save**.

To add a user account from an LDAP server:

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

The screenshot shows the 'Accounts and Groups' page. At the top, there are three buttons: 'Create New Account', 'Add Account from LDAP', and 'Add Group from LDAP'. Below these buttons is a table titled 'Accounts' with columns: Username, Real Name, Email Address, and Phone Number. The table contains one row for the 'admin' user. To the right of the table is an 'Edit Account' link and a '(Logged In)' status.

- Enter the username for the account you want to add and click **Next**.

The screenshot shows the 'Add User From LDAP Server' dialog box. It has a text input field labeled 'Add User with username:' containing the text 'Bcrocker_OD'. At the bottom right, there are 'Cancel' and 'Next' buttons.

- When the JSS returns the results, click the **Add <username>** link next to the user you want to add.

The screenshot shows the '1 Result' dialog box. It contains a table with columns: Unique ID, Username, Distinguished Name, Real Name, and Email. The table has one row for the user 'Bcrocker_OD'. To the right of the table is an 'Add Bcrocker_OD...' link. At the bottom right, there is a 'Cancel' button.

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 **Update DN** button.

The screenshot shows the 'Create New Account' dialog box with the 'Account' tab selected. The fields are as follows:

- Username:** bcrocker_OD
- Realname:** Betty Crocker
- Email Address:** bcrocker@jamfsoftware.co
- Phone:** (empty)
- Distinguished Name:** uid=bcrocker_OD,cn=user

Below the Distinguished Name field is a button labeled 'Update DN...' and a note: '(This user is from an LDAP Server)'. At the bottom right are 'Cancel' and 'Save' buttons.

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

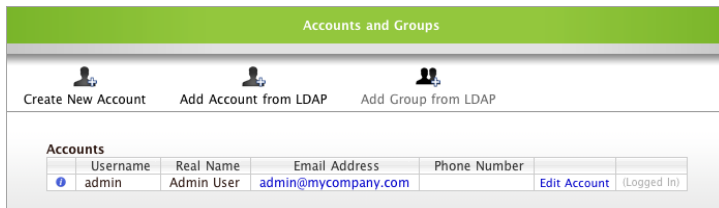
The screenshot shows the same 'Create New Account' dialog box, but the 'Distinguished Name' field has been updated to: uid=bcrocker_OD,cn=users,dc=od,dc=jamfsw,dc=corp. The 'Update DN...' button is no longer visible. The 'Cancel' and 'Save' buttons remain at the bottom right.

To grant access to an LDAP group:

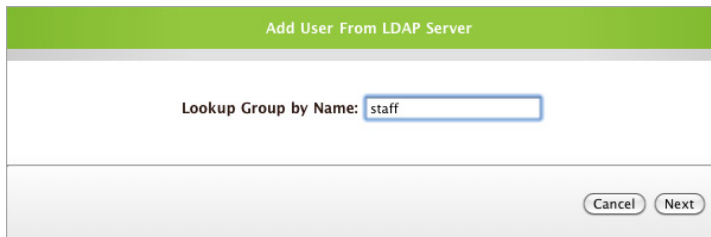
1. Log in to the JSS with a web browser.
2. Click the **Settings** tab.
3. Click the **Accounts** link.

- Click the **Add Group from LDAP** button in the toolbar.

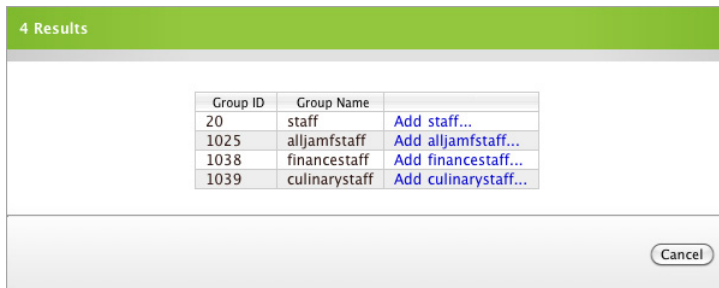
If you don't see this button, you need to set up an LDAP server connection before completing these steps. (For more information, see the "Integrating with LDAP Servers" section.)



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



- When the JSS returns the results, click the **Add <group name>** link next to the group you want to add.



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

Managing Buildings and Departments

Buildings and departments are organizational components that give you an easy way to perform inventory searches.

Buildings

This section explains 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.



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.

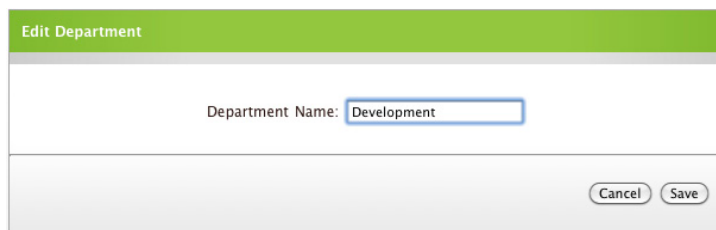
4. Click the **Delete Building** link across from the building that you want to delete.
5. Click **Delete** to confirm.

Departments

This section explains 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.



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:

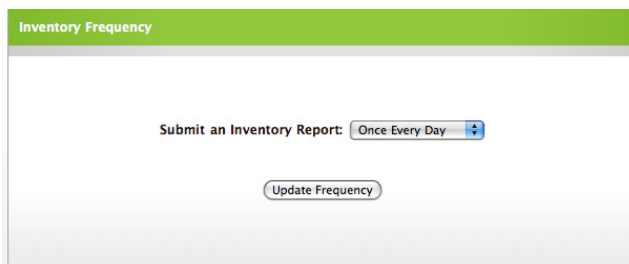
1. Log in to the JSS with a web browser.
2. Click the **Settings** tab.
3. Click the **Departments** link.
4. Click the **Delete Department** link across from the department that you want to delete.
5. Click **Delete** to confirm.

Changing the Frequency of Inventory Reports

Client computers that were added to the JSS using the network scanner or a QuickAdd package can be configured to generate and submit inventory reports to the JSS on a daily, weekly, or monthly basis.

To change the frequency of inventory reports:

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 Frequency** link.
5. Choose how frequently you want computers to submit inventory reports to the JSS.



6. Click the **Update Frequency** button.

Managing Inventory Preferences

Inventory preferences are divided into two sections:

- **Inventory Collection preferences**—These preferences allow you to collect additional inventory items and specify how you want to collect them.
- **Inventory Display preferences**—These preferences allow you to 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 allows you to:

- Collect additional inventory items
- Create extension attributes to collect custom data
- Specify 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 | ▪ Hidden accounts |
| ▪ Fonts | ▪ Printers |
| ▪ Plug-ins | ▪ Running services |
| ▪ UNIX executables | ▪ Scheduled tasks |
| ▪ Package receipts | ▪ Command-line tools |
| ▪ Software updates | ▪ Mobile devices |
| ▪ Accounts | ▪ Mobile device app purchasing information |
| ▪ Home directory sizes | ▪ Composer location 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 (Seconds)	Traffic (KB)
Default (No Additional Items)	9	102
Application Details (Size, Copyright Info, Date Modified, Bundle ID, and Permissions)	30	133
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`</result>"
```

For Windows computers, scripts can be written in VBScript, Batch file, and PowerShell.

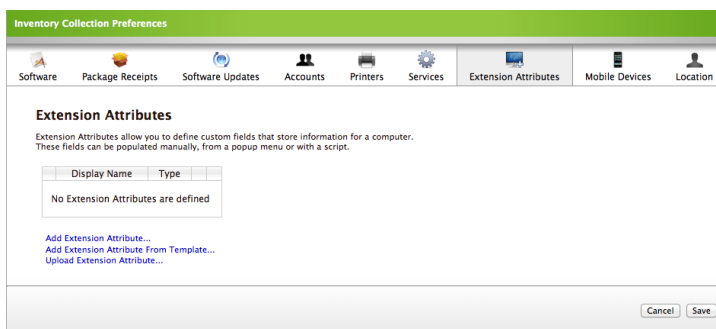
Note: PowerShell scripts only run on computers that have components installed to run the script.

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 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.

- (Optional) Enter a description.

This description is displayed when you hover over the **Info**  icon in the list of extension attributes on the Extension Attributes pane.

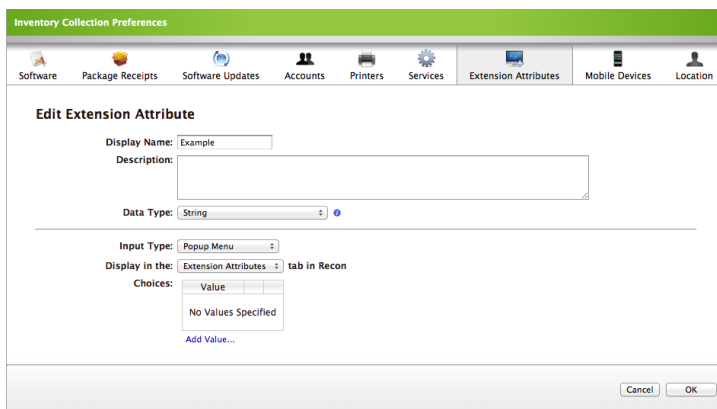
- Choose “String, Integer/Real” or “Date” from the **Data Type** pop-up menu.

This is how the field is evaluated when performing advanced computer searches.

- 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 the Recon interface.
- If you choose to run a script, enter or paste the script into the field that appears.

- If you chose to populate the information using a pop-up menu, click the **Add Value** link and enter menu options for the pop-up menu.



The screenshot shows the 'Inventory Collection Preferences' window with the 'Extension Attributes' tab selected. The 'Edit Extension Attribute' section contains the following fields and options:

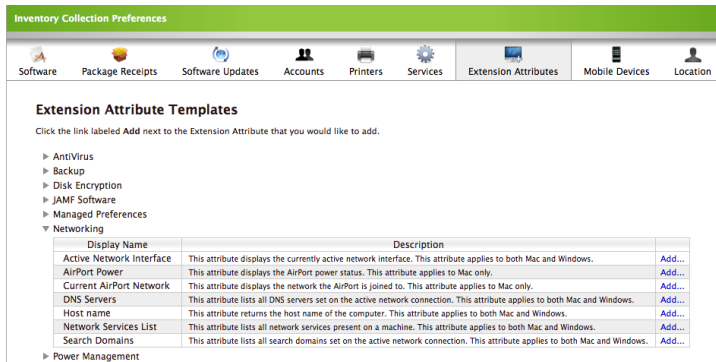
- Display Name:** Example
- Description:** (Empty text area)
- Data Type:** String (with an info icon)
- Input Type:** Popup Menu
- Display in the:** Extension Attributes (tab in Recon)
- Choices:** A table with two rows: 'Value' and 'No Values Specified'. Below the table is a link 'Add Value...'.
- Buttons:** Cancel and OK at the bottom right.

- Click the **OK** button, and then click **Save**.

To create an extension attribute using a template:

- Log in to the JSS with a web browser.
- Click the **Settings** tab.
- Click the **Inventory Options** link.
- Click the **Inventory Collection Preferences** link.
- Click the **Extension Attributes** tab.
- Click the **Add Extension Attribute From Template** link.

- 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.

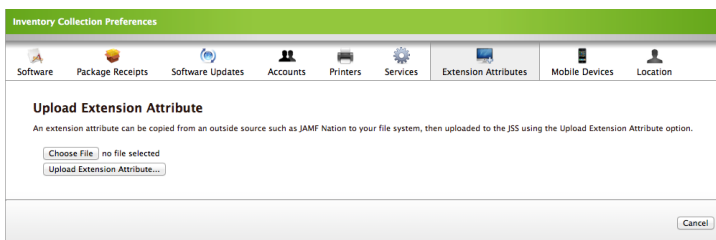


- Click **Save**.

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:

- Log in to the JSS with a web browser.
- Click the **Settings** tab.
- Click the **Inventory Options** link.
- Click the **Inventory Collection Preferences** link.
- Click the **Extension Attributes** tab.
- Click the **Upload Extension Attribute** link.
- Click **Choose File** and select the extension attribute (.xml) that you want to upload. Then, click **Upload Extension Attribute**.



- Click **Save**.

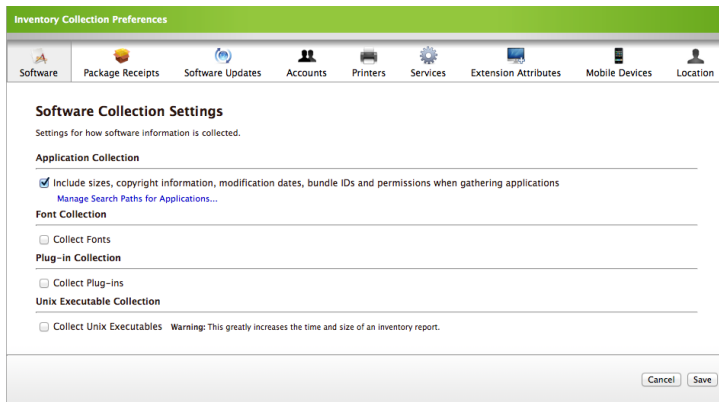
Computers run the script and populate the attribute field each time they submit inventory to the JSS.

Adding Custom Search Paths

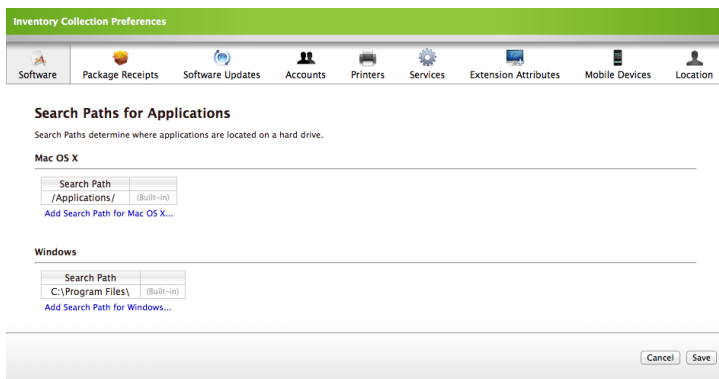
By default, Recon searches for software items (application details, fonts, plug-ins, and UNIX executables) in common locations on Mac OS X and Windows computers. You can define additional locations in which you want Recon to search by adding one or more search paths.

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.



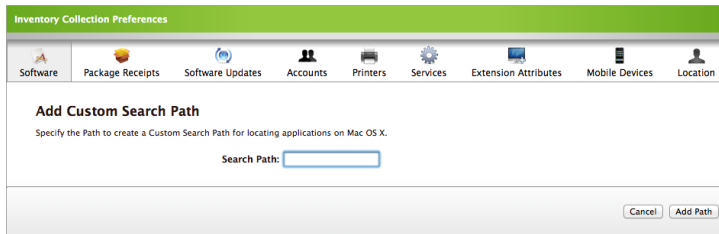
6. Click the **Add Search Path for <platform>** link that indicates the correct platform.



7. Enter the search path you want to add, and then click **Add Path**.

To add every user's home directory to the search path, enter a tilde (~) at the beginning of the search path.

To add all users on the computer to the search path, enter \$USERNAME in the search path.



8. Click **Save**.

Inventory Display Preferences

Inventory Display preferences allow you to modify how inventory data is displayed throughout the JSS.

This section explains how to:

- 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
- 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.

Inventory Display Preferences

Computer Information

Clicking the checkbox in the column labeled **Default** will make the corresponding field visible when searching computers.
If you would like to change the label of a field, enter the new label next to the corresponding field in the **Custom Label** column.

Default	Custom Label	Original Label
<input checked="" type="checkbox"/>	Info Link	Info Link
<input type="checkbox"/>	JSS Computer ID	JSS Computer ID
<input type="checkbox"/>	Asset Tag	Asset Tag
<input type="checkbox"/>	Platform	Platform
<input checked="" type="checkbox"/>	Computer Name	Computer Name
<input type="checkbox"/>	Bar Code	Bar Code
<input type="checkbox"/>	Last Contact Time	Last Contact Time
<input type="checkbox"/>	Last Report Date	Last Report Date
<input checked="" type="checkbox"/>	Managed	Managed
<input type="checkbox"/>	Jamf Binary Version	Jamf Binary Version
<input type="checkbox"/>	IP Address	IP Address
<input checked="" type="checkbox"/>	Operating System	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. Enter a new name in the **Custom Label** field next to it.

If you are renaming an extension attribute, enter a new name in the **Display Name** field.

Inventory Display Preferences

Computer Information

Clicking the checkbox in the column labeled **Default** will make the corresponding field visible when searching computers.
If you would like to change the label of a field, enter the new label next to the corresponding field in the **Custom Label** column.

Default	Custom Label	Original Label
<input checked="" type="checkbox"/>	Info Link	Info Link
<input type="checkbox"/>	JSS Computer ID	JSS Computer ID
<input type="checkbox"/>	Asset Tag	Asset Tag

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.

- 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.

The screenshot shows the 'Inventory Display Preferences' dialog box with the 'Extension Attributes' tab selected. The tab bar at the top includes Computer, Hardware, Location, Purchasing, Extension Attributes (active), Peripherals, Mobile Devices, and Mobile Device Apps. The main content area is titled 'Extension Attributes' and contains a table with three columns: 'Default', 'Display Name', and 'Display in Section'. The 'Default' column has a checkbox, and the 'Display Name' column has a text field containing 'VIP'. The 'Display in Section' column has a dropdown menu currently showing 'Extension Attributes Information'. Below the table is a 'Cancel' button and a 'Save' button.

Default	Display Name	Display in Section
<input type="checkbox"/>	VIP	Extension Attributes Information

- Click **Save**.

To display app icons in the JSS:

- Log in to the JSS with a web browser.
- Click the **Settings** tab.
- Click the **Inventory Options** link.
- 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.

The screenshot shows the 'Inventory Display Preferences' dialog box with the 'Mobile Device Application Information' tab selected. The tab bar at the top includes Computer, Hardware, Location, Purchasing, Extension Attributes, Peripherals, Mobile Devices, and Mobile Device Apps (active). The main content area is titled 'Mobile Device Application Information' and contains a checkbox labeled 'Display icons for mobile device applications', which is checked. Below the checkbox is a 'Cancel' button and a 'Save' button.

- Click **Save**.

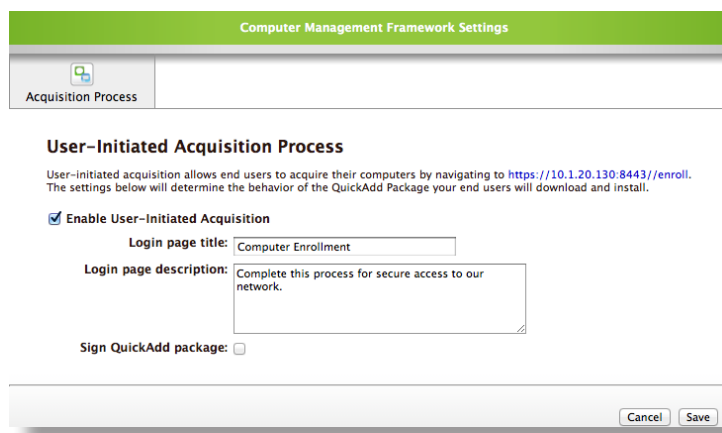
Configuring the User-Initiated Acquisition Process

User-initiated acquisition allows users to acquire their computers using a QuickAdd package. For more information on user-initiated acquisition, see the “Providing an Acquisition URL” and “Sending OTA Invitations” sections in “Acquiring Mac OS X Computers”.

Use the Acquisition Process pane in Computer Management Framework settings to enable or disable user-initiated acquisition. When user-initiated acquisition is enabled, you can use this pane to customize the text that is displayed to users on the Login page for user-initiated acquisition.

To set up or modify User-Initiated Acquisition preferences:

1. Log in to the JSS in a web browser.
2. Click the **Settings** tab.
3. Click the **Computer Framework Settings** link.
4. Click the **Acquisition Process** tab.
5. Customize text for the Login page as needed.



The screenshot shows the 'Computer Management Framework Settings' window with the 'Acquisition Process' tab selected. The 'User-Initiated Acquisition Process' section is active. It includes a checkbox for 'Enable User-Initiated Acquisition' which is checked. Below this, there are two text input fields: 'Login page title' with the value 'Computer Enrollment' and 'Login page description' with the value 'Complete this process for secure access to our network.' There is also a 'Sign QuickAdd package' checkbox which is unchecked. At the bottom right, there are 'Cancel' and 'Save' buttons.

6. To sign the QuickAdd package, select the **Sign QuickAdd package** checkbox and upload an installer certificate (.p12) obtained from Apple’s Developer Certificate Utility.
Signing the QuickAdd package ensures that it appears as verified to users. It also allows users to install the QuickAdd package on computers that have Apple’s Gatekeeper feature set to only allow applications downloaded from the Mac App Store and identified developers.
To obtain an installer certificate from Apple’s Developer Certificate Utility, you must be a registered Apple Developer in the Mac Developer Program. To enroll in the Mac Developer Program, visit the following website:
<https://developer.apple.com/programs/mac/>
7. 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.

This section explains 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 **Field 1–7 Label** fields, enter the name of the 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:

Field 1 Label: Text ☒ Menu ☐ Choices

Field 2 Label: Text ☒ Menu ☐ Choices

Field 3 Label: Text ☒ Menu ☐ Choices

Field 4 Label: Text ☒ Menu ☐ Choices

Field 5 Label: Text ☐ Menu ☒ Choices

Field 6 Label: Text ☒ Menu ☐ Choices

Field 7 Label: Text ☒ Menu ☐ Choices

9. Click the **Next** button.

10. If you chose to display an attribute field as a menu, enter the menu options in the fields provided.

Add New Peripheral Type

Peripheral Type: Scanner
Make: Text Field
Model: Text Field
Asset Tag: Text Field
Serial Number: Text Field
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.

Inventory

Acquiring Mac OS X Computers

Acquisition is the process of adding computers to the JSS as part of your inventory. There are several ways to acquire Mac OS X computers:

- Provide an acquisition URL.
- Send an OTA invitation.
- Use a QuickAdd package created with Recon.
- Scan the network.
- Run Recon remotely.
- Run Recon locally.
- Manually add computers to the JSS.

Providing an Acquisition URL

You can allow users to acquire their own computers by providing them with an acquisition URL. The Acquisition URL is the full URL for the JSS followed by /enroll/. For example:

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

Users go to the URL, log in with an LDAP directory account or JSS user account, and then follow the onscreen instructions to download and install a QuickAdd package that acquires their computer.

If location information collection is enabled in the JSS and users log in with an LDAP directory account, location information for the computer is collected during enrollment.

Providing an acquisition URL requires:

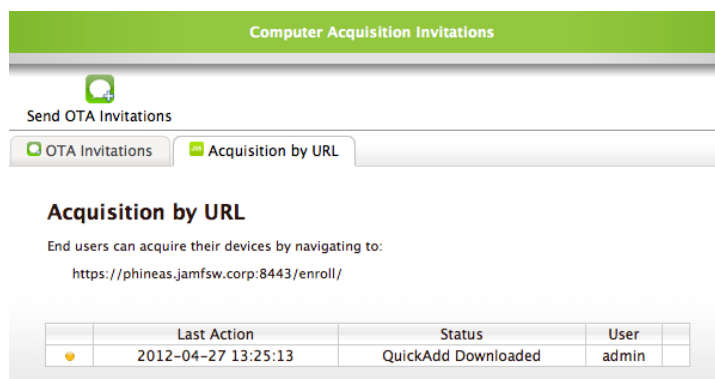
- An LDAP server connection set up in the JSS or a JSS user account with privileges to enroll Mac OS X computers (See “Integrating with LDAP Servers” or “Managing JSS User Accounts” for instructions on how to set up one of these requirements.)
- User-initiated computer acquisition enabled in the JSS (See “Configuring the User-Initiated Acquisition Process” for more information.)

In addition, if the QuickAdd package is signed, client computers must have Apple's Developer ID Certification Authority intermediate certificate in the system keychain in Keychain Access. For instructions on how to obtain this certificate and import it to the system keychain on client computers, see the following Knowledge Base article:

<https://jamfnation.jamfsoftware.com/article.html?id=294>

To view the status of URL acquisitions:

1. Log in to the JSS with a web browser.
2. Click the **Management** tab.
3. Click the **Computer Acquisition** link, and then click the **Acquisition by URL** tab.



Sending OTA Invitations

You can allow users to acquire their own computers by sending them an OTA invitation via email. Users click the URL in the invitation and follow the onscreen instructions to download and install a QuickAdd package that acquires their computers.

Acquiring computers by sending an OTA invitation requires:

- An SMTP server set up in the JSS (See "Enabling Email Notifications" for detailed instructions.)
- A JSS user account with privileges to enroll Mac OS X computers
- User-initiated computer enrollment enabled in the JSS (See "Configuring the User-Initiated Acquisition Process" for more information.)

To acquire computers by sending an OTA invitation:

1. Log in to the JSS with a web browser.
2. Click the **Management** tab.
3. Click the **Computer Acquisition** link.
4. Click the **Send OTA Invitations** button.

5. Enter the email addresses that you want to send the invitation to, and then click **Continue**. Each entry must be separated with a line break or comma.

The screenshot shows the 'Computer Acquisition Invitation Assistant' window with a progress bar at the top. The 'Recipients' step is highlighted with a green dot. Below the progress bar, the title 'Enter Email Addresses' is displayed, followed by the instruction 'The JSS will send the invitation via email.' A large, empty text area for entering email addresses is shown. At the bottom right, there are 'Cancel' and 'Continue' buttons.

6. Customize the invitation message as needed, and then click **Continue**.

The screenshot shows the 'Computer Acquisition Invitation Assistant' window with the progress bar. The 'Message' step is highlighted with a green dot. The title 'Enter Invitation Message' is displayed, followed by the instruction 'Enter the subject and content of the invitation that will be sent via email. The %@ will be automatically replaced with the URL in the message.' Below this, there are input fields for 'Sender's name' (with 'JSS' entered), 'Reply-To', and 'Subject' (with 'Your Computer Acquisition Invitation' entered). A large text area for the 'Message' body contains a placeholder '%%' and a sample message: 'Please follow the link below on your Computer. Acquiring your Computer gives you better access to our network and ensures the security of your data. Thank you, Your IT Department'. At the bottom, there are 'Back', 'Cancel', and 'Continue' buttons.

7. Specify an expiration date for the invitation.

The screenshot shows the 'Computer Acquisition Invitation Assistant' window with the progress bar. The 'Security' step is highlighted with a green dot. The title 'Invitation Security Options' is displayed, followed by the instruction 'Choose the security options for the acquisition invitations.' Below this, there is a date and time picker for 'Expires On' set to '6 / 3 / 2012 at 10 : 00 : AM'. A checkbox labeled 'Allow multiple uses of invitations' is checked. At the bottom, there are 'Back', 'Cancel', and 'Continue' buttons.

8. If you want to allow multiple uses of the invitation, leave **Allow multiple uses of invitations** selected, and then click **Continue**.

9. Verify that the information on the Complete pane is correct, and then click **Send**.

The screenshot shows the 'Computer Acquisition Invitation Assistant' dialog box with the 'Complete' tab selected. The progress bar at the top shows four steps: Recipients, Message, Security, and Complete (which is highlighted with a green dot). The main content area is titled 'Complete!' and contains the following information:

You can verify the details of the invitation below. To send the invitations, click the **Send** button.

To: useremail@mycompany.com

From: JSS

Subject: Your Computer Acquisition Invitation

Message: %@
Please follow the link below on your Computer. Acquiring your Computer gives you better access to our network and ensures the security of your data.
Thank you,
Your IT Department

At the bottom, there are three buttons: 'Back', 'Cancel', and 'Send'.

To view the status of OTA acquisitions:

1. Log in to the JSS with a web browser.
2. Click the **Management** tab.
3. Click the **Mobile Device Acquisition** link, and then click the **OTA Invitations** tab.

The screenshot shows the 'Computer Acquisition Invitations' web interface. At the top, there is a green header bar with the text 'Computer Acquisition Invitations'. Below the header, there is a 'Send OTA Invitations' button. Underneath, there are two tabs: 'OTA Invitations' (which is selected) and 'Acquisition by URL'. The main content area is titled 'Over-the-Air Invitations' and contains the following text:

You can send acquisition invitations to end users by email by clicking the **Send OTA Invitations** button in the toolbar.

Below the text, there is a table with the following data:

	Sent to	Last Action	Status	
	useremail@mycompany.com	2012-04-27 13:22:28	Multiple Uses	Revoke...

Using QuickAdd Packages Created with Recon

Recon allows you to create QuickAdd packages that you can install on computers to acquire them. You can deploy QuickAdd packages using a remote deployment tool, such as Apple Remote Desktop, or you can give them to users to install.

You can also sign the QuickAdd package with an installer certificate (.p12) obtained from Apple's Developer Certificate Utility. Signing the QuickAdd package ensures that it appears as verified to users. It also allows users to install the QuickAdd package on computers that have Apple's Gatekeeper feature set to only allow applications downloaded from the Mac App Store and identified developers.

To sign a QuickAdd package, Recon must be running on OS X v10.7 or later.

To obtain an installer certificate from Apple's Developer Certificate Utility, you must be a registered Apple Developer in the Mac Developer Program. To enroll in the Mac Developer Program, visit the following website:

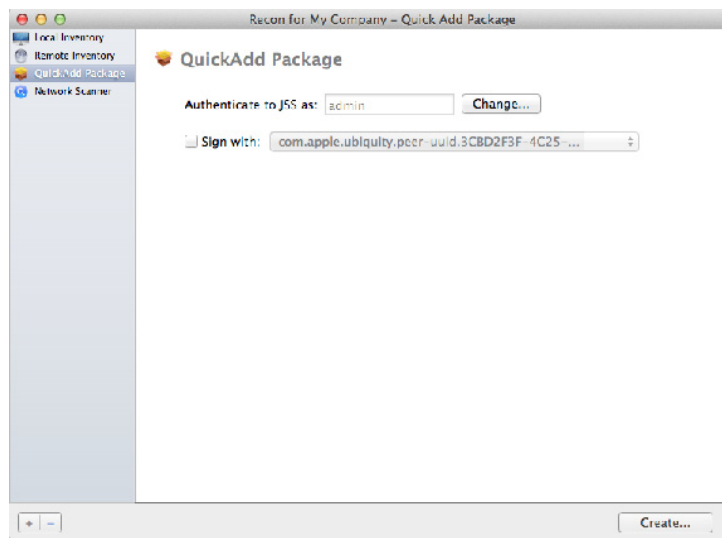
<https://developer.apple.com/programs/mac/>

To install a signed QuickAdd package, the system keychain in Keychain Access must contain Apple's Developer ID Certification Authority intermediate certificate. For instructions on how to obtain this certificate and import it to the system keychain on client computers, see the following Knowledge Base article:

<https://jamfnation.jamfsoftware.com/article.html?id=294>

To acquire computers using a QuickAdd package created with Recon:

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 to the JSS, click the **Change** button. Enter credentials for the account, and then click **Connect**.



5. If you want to sign the QuickAdd package, select the **Sign with** checkbox and choose an installer certificate from the pop-up menu.
Installer certificates that are located in the login keychain in Keychain Access are displayed in the pop-up menu.

Note: The pop-up menu also displays application certificates that are located in the login keychain in Keychain Access. It is important that you use an installer certificate, not an application certificate, to sign QuickAdd packages.

6. Click the **Create** button.
7. Save the package to the desired location.

8. Deploy the package using a remote deployment tool or give the package to end users to install.

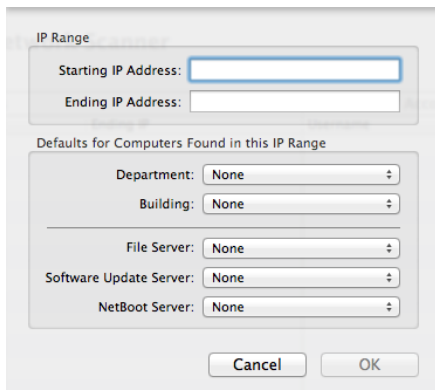
When users install the QuickAdd package, the computers are added to the JSS.

Scanning the Network

The network scanner in Recon allows you 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:

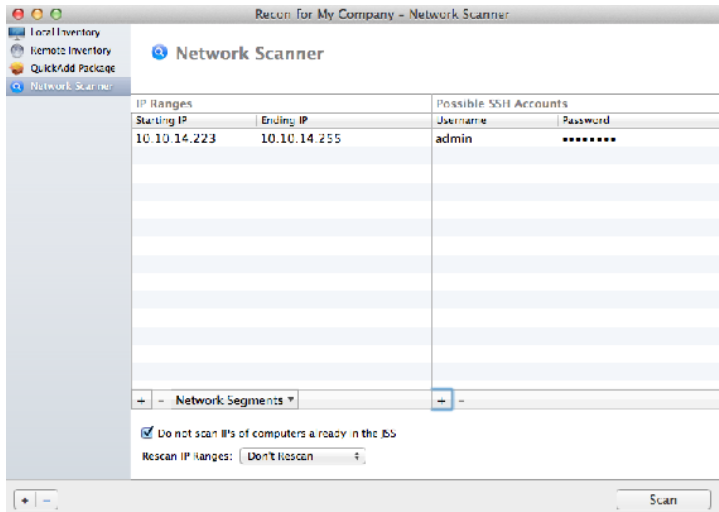
1. Open Recon.
2. Authenticate to the JSS and click **Connect**.
3. Select **Network Scanner** in the sidebar.
4. Click the **Add (+)** button below the IP Ranges list.
5. Specify the IP ranges you want to scan by entering the beginning and ending IP address. Then, use the pop-up menus to set default locations and servers for the computers, and click **OK**.



6. 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.

7. If you want to ignore computers that are already in the JSS, select the **Do not scan IPs of computers already in the JSS** checkbox.



8. To continuously scan the network for new computers, use the **Rescan IP Ranges** pop-up menu to specify how often Recon should rescan.
9. Click **Save As** to save the settings.
This creates a .recon file that can be opened with Recon.
10. Click the **Scan** button.

Once you complete these steps, 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.

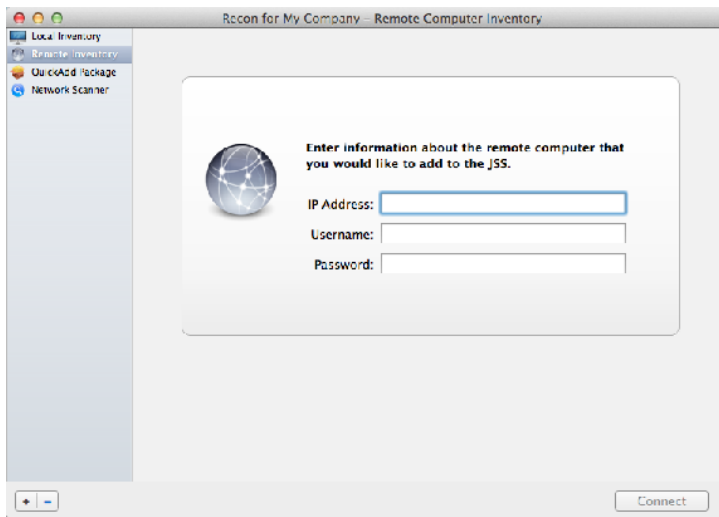
Running Recon Remotely

If you know the DNS name or IP address for the computer that you want to acquire and SSH (remote login) is enabled on the computer, you can use Recon to acquire it remotely. This allows you to enter detailed information for the computer before you acquire it.

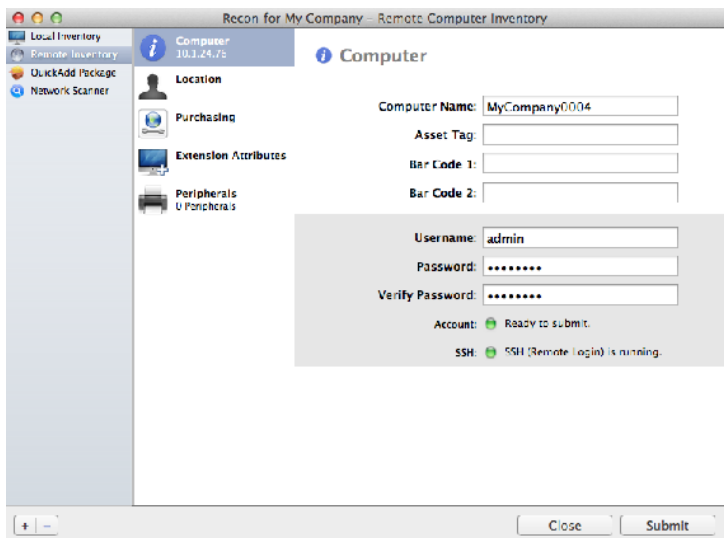
To acquire a computer by running Recon remotely:

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.



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.



7. Click the **Submit** button.

When Recon finishes acquiring the computer, the JSS ID for the computer 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.

To acquire a computer by running Recon locally:

1. Copy Recon to the local drive.


Note: Recon is a self-contained application on every platform and does not require an installer.

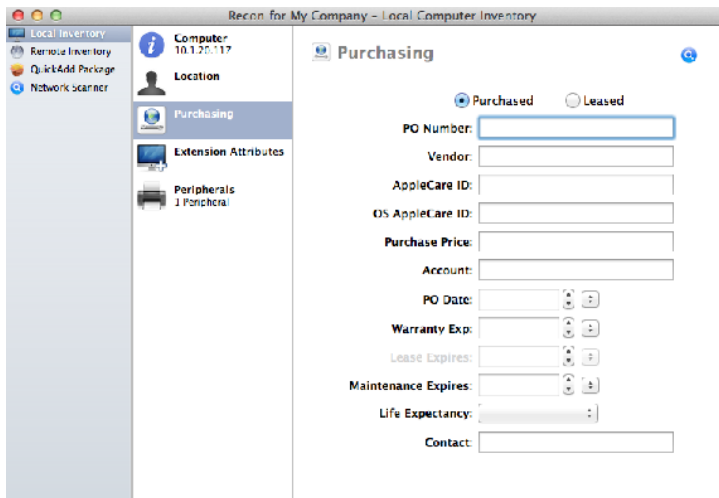
2. Open Recon.
If prompted, enter the DNS name or IP address for the JSS.
3. Select **Local Inventory** in the sidebar.
The computer name appears by default.
4. Enter the asset tag in the field provided and/or utilize a barcode scanner to enter a bar code.

The screenshot shows the 'Recon for My Company - Local Computer Inventory' window. The left sidebar has 'Local Inventory' selected. The main area is titled 'Computer' and shows the IP '10.1.20.17'. Under the 'Location' category, there are fields for 'Computer Name' (filled with 'MyCompany0004'), 'Asset Tag', 'Bar Code 1', and 'Bar Code 2'. Below these are fields for 'Username', 'Password', and 'Verify Password'. At the bottom, it says 'Account: No account for remote management.' and 'SSH: SGI (Remote Login) is running.' A 'Submit' button is at the bottom right.

5. (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.

The screenshot shows the same Recon application window, but now the 'Location' category is selected in the sidebar and the main area. It contains fields for 'Username' (with a search icon), 'Real Name', 'Email Address', 'Phone', 'Position', 'Department' (dropdown), 'Building' (dropdown), and 'Room'. A 'Submit' button is at the bottom right.

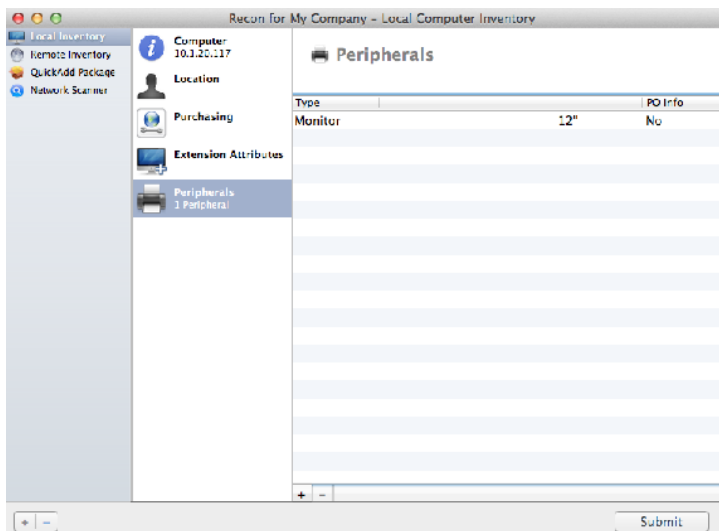
6. (Optional) Select **Purchasing** in the categories list and enter purchasing information for the computer. If a GSX connection is set up in the JSS, click the **Search**  icon to populate information from Apple's Global Service Exchange (GSX).



7. (Optional) Select **Extension Attributes** in the categories list and enter information as needed.
8. (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.



9. Click the **Submit** button.



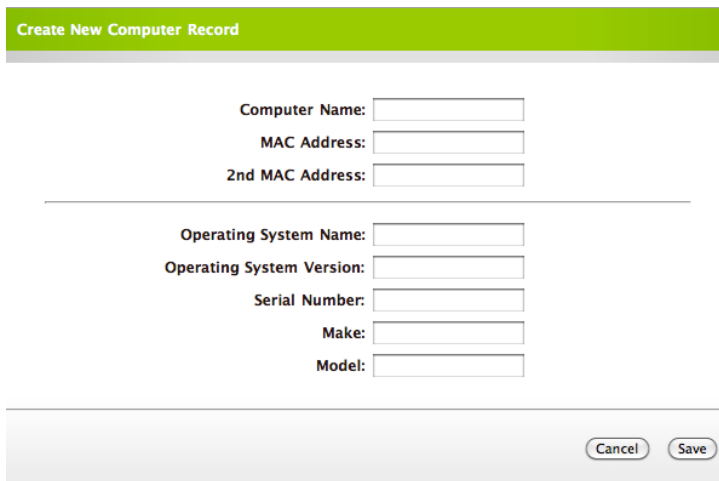
When Recon finishes acquiring the computer, the JSS ID for the computer is displayed at the top of the pane.

Manually Adding Computers to the JSS

You can acquire a computer manually by entering information about the computer into the JSS.

To add 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. Enter the name of the computer.



Create New Computer Record

Computer Name:

MAC Address:

2nd MAC Address:

Operating System Name:

Operating System Version:

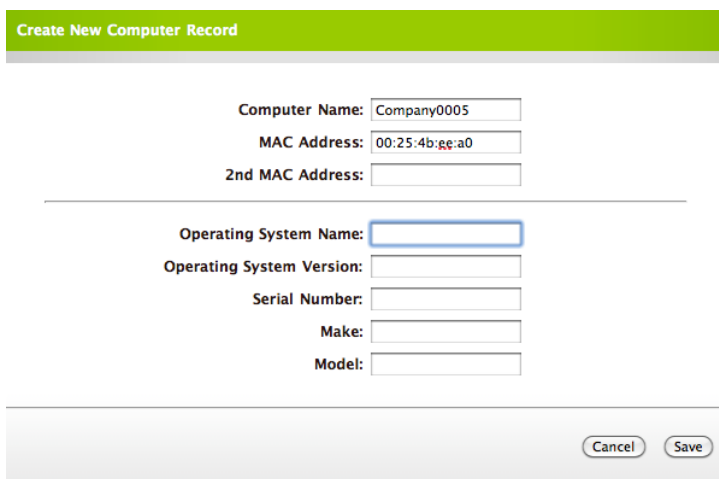
Serial Number:

Make:

Model:

Cancel Save

5. Enter one or more MAC addresses for the computer.
6. (Optional) Enter the name and version of the operating system of the computer.



Create New Computer Record

Computer Name:

MAC Address:

2nd MAC Address:

Operating System Name:

Operating System Version:

Serial Number:

Make:

Model:

Cancel Save

7. (Optional) Enter the serial number, make, and model of the computer.
8. Click the **Save** button.
9. Use the Details report pane to enter additional information as needed. (See “Viewing Computer Details” for more information.)

Acquiring Windows Computers

Acquisition is the process of adding computers to the JSS. There are three ways to acquire Windows computers as part of your inventory:

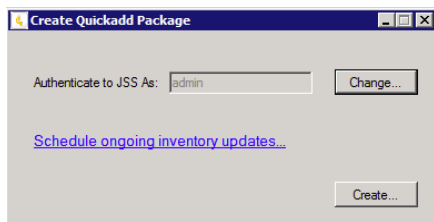
- Use a QuickAdd package.
- Run Recon locally.
- Manually add computers to the JSS.

Using QuickAdd Packages

Recon.exe allows you to create QuickAdd packages (.mist) that you can install on Windows computers to acquire them. You can deploy QuickAdd packages using a remote deployment tool, such as Apple Remote Desktop, or you can give them to users to install.

To acquire computers using 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 to the JSS, 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 deployment tool or give the package to users to install.

When users install the QuickAdd package, the computers are added to inventory.

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 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.

When Recon.exe opens, the computer name appears by default.

3. Enter the asset tag in the field provided and/or utilize a barcode scanner to enter a bar code.

The screenshot shows the 'Recon for JAMF Software - Local Computer Inventory' application window. The 'Computer Information' tab is selected. The form contains the following fields: 'Computer Name' (pre-filled with 'COMPANY-MTILCQL'), 'Asset Tag', 'Bar Code 1', and 'Bar Code 2'. Below these is a section for authentication with 'Username:', 'Password:', and 'Verify Password:' text boxes, and 'Account:' and 'SSH:' radio buttons. A 'Submit' button is at the bottom right.

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.

The screenshot shows the same application window, but the 'Location' tab is selected. The form contains the following fields: 'Username', 'Real Name', 'Email Address', and 'Position' text boxes on the left; and 'Phone', 'Department' (dropdown), 'Building' (dropdown), and 'Room' text boxes on the right. There are 'Clear' and 'Check Name' buttons at the bottom of the form area, and a 'Submit' button at the bottom right.

- (Optional) Click the **Purchasing Information** tab and enter purchasing information for the computer.

The screenshot shows the 'Recon for JAMF Software - Local Computer Inventory' application window. The 'Purchasing Information' tab is selected. The window contains a 'QuickAdd Package' section with a 'Purchased' radio button selected and a 'Leased' radio button. Below this are several input fields: 'PO Number', 'Vendor', 'AppleCare ID', 'Purchase Price', 'Account', 'PO Date', 'Warranty Expires', 'Life Expectancy', and 'Contact'. A 'Submit' button is located at the bottom right of the window.

- (Optional) Click the **Extension Attributes** tab and enter information as needed.
- (Optional) Click the **Peripherals** tab. Click the **Add (+)** button to enter information for a new peripheral, and then click **OK**.

The screenshot shows the 'Add Peripheral' dialog box. It has a 'Type' dropdown menu, two 'Bar Code' input fields (Bar Code 1 and Bar Code 2), a 'Show Purchasing Information' checkbox, and 'Cancel' and 'OK' buttons at the bottom.

- Click the **Submit** button.

The screenshot shows the 'Recon for JAMF Software - Local Computer Inventory' application window. The 'Peripherals' tab is selected. The window displays a table with columns 'Type' and 'PO Info'. Below the table are two buttons: a plus sign (+) and a minus sign (-). A 'Submit' button is located at the bottom right of the window.

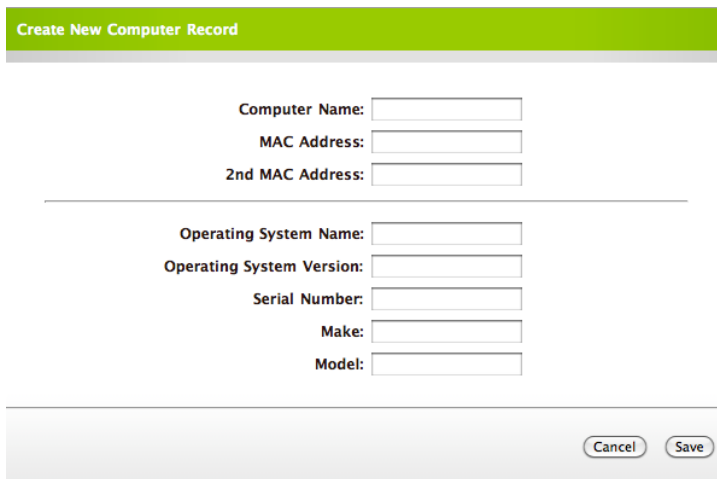
When Recon.exe finishes acquiring the computer, the JSS ID for the computer is displayed at the top of the pane.

Acquiring Computers Manually

You can acquire a computer manually by entering information about the computer into the JSS.

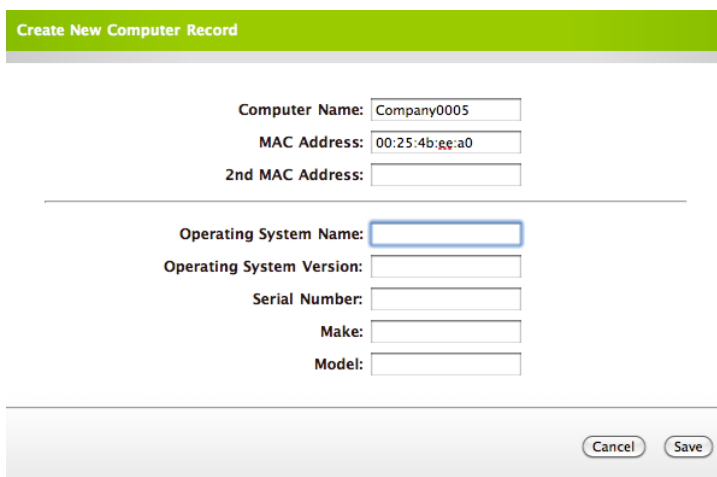
To add a computer manually:

1. Log in to the JSS with a web browser.
2. Click the **Inventory** tab.
3. Click the **Add Computer Manually** link.
4. Enter the name of the computer.



The screenshot shows a web form titled "Create New Computer Record" with a green header bar. The form is divided into two sections by a horizontal line. The top section contains three input fields: "Computer Name:", "MAC Address:", and "2nd MAC Address:". The bottom section contains six input fields: "Operating System Name:", "Operating System Version:", "Serial Number:", "Make:", and "Model:". At the bottom right of the form are two buttons: "Cancel" and "Save".

5. Enter one or more MAC addresses for the computer.
6. (Optional) Enter the name and version of the operating system of the computer.



The screenshot shows the same "Create New Computer Record" form, but with some data entered. The "Computer Name" field contains "Company0005". The "MAC Address" field contains "00:25:4b:ee:a0". The "2nd MAC Address" field is empty. The "Operating System Name" field is highlighted with a blue border. The "Operating System Version", "Serial Number", "Make", and "Model" fields are empty. The "Cancel" and "Save" buttons are still at the bottom right.

7. (Optional) Enter the serial number, make, and model of the computer.
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:

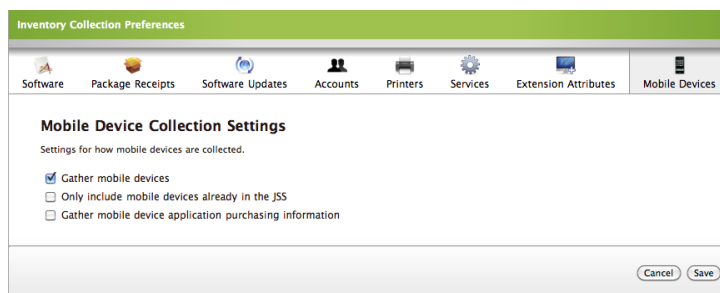
- General information
- Location information
- Purchasing information
- Apps
- App purchasing information (Optional)

To ensure that the JSS reflects updated inventory for the device, make sure the device is synced regularly.

This section explains how to acquire synced devices.

To acquire mobile devices:

1. Log in to the JSS using 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:

- Perform simple and advanced computer searches
- View computer search results
- View computer details

Performing Simple Computer Searches

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:

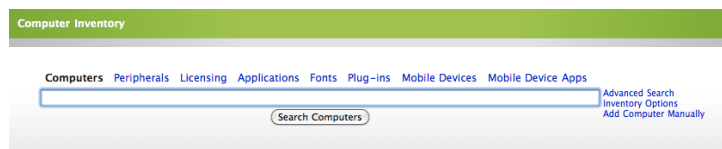
- | | |
|-----------------|-----------------|
| ▪ Computer name | ▪ Real name |
| ▪ MAC address | ▪ Email address |
| ▪ Bar code | ▪ Phone number |
| ▪ IP address | ▪ Position |
| ▪ Asset tag | ▪ Department |
| ▪ Serial number | ▪ Building |
| ▪ Username | ▪ Room |

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.



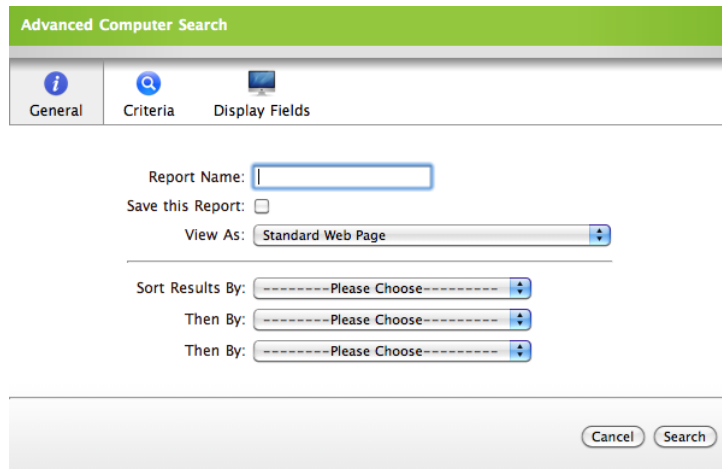
3. Enter one or more search terms into the search field.
4. Click the **Search Computers** button, or type the **Enter** key.

Performing Advanced Computer Searches

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



The screenshot shows the 'Advanced Computer Search' window with the 'General' pane selected. The window has a green header bar with the title 'Advanced Computer Search'. Below the header, there are three tabs: 'General' (selected), 'Criteria', and 'Display Fields'. The 'General' pane contains the following fields and controls:

- Report Name:** A text input field.
- Save this Report:** A checkbox.
- View As:** A dropdown menu currently showing 'Standard Web Page'.
- Sort Results By:** A dropdown menu currently showing '-----Please Choose-----'.
- Then By:** A dropdown menu currently showing '-----Please Choose-----'.
- Then By:** A second dropdown menu currently showing '-----Please Choose-----'.
- Buttons:** 'Cancel' and 'Search' buttons at the bottom right.

This pane allows you to 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

Advanced Computer Search

General Criteria Display Fields

Field	Search Type	Criteria	-	+
Computer Information				+
Location Information				+
Hardware Information				+
Storage Information				+
OS Configuration Information				+
Software Information				+
Purchasing Information				+
Receipts Information				+
Extension Attributes Information				+

Cancel Search

This pane allows you to 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

Advanced Computer Search

General Criteria **Display Fields**

<input checked="" type="checkbox"/> Info Link	<input type="checkbox"/> JSS Computer ID	<input type="checkbox"/> Asset Tag	<input type="checkbox"/> Platform
<input checked="" type="checkbox"/> Computer Name	<input type="checkbox"/> Bar Code	<input checked="" type="checkbox"/> Last Contact Time	<input type="checkbox"/> Last Report Date
<input checked="" type="checkbox"/> Managed	<input checked="" type="checkbox"/> Jamf Binary Version	<input type="checkbox"/> IP Address	
<input checked="" type="checkbox"/> Username	<input checked="" type="checkbox"/> Real Name	<input checked="" type="checkbox"/> Email Address	<input type="checkbox"/> Department
<input checked="" type="checkbox"/> Building	<input type="checkbox"/> Room	<input type="checkbox"/> Phone	<input type="checkbox"/> Position
<input type="checkbox"/> Live LDAP Lookups			
<input type="checkbox"/> Make	<input checked="" type="checkbox"/> Model	<input type="checkbox"/> MAC Address	<input type="checkbox"/> NIC Speed
<input type="checkbox"/> Optical Drive	<input type="checkbox"/> Boot ROM	<input type="checkbox"/> Bus Speed	<input checked="" type="checkbox"/> Serial Number
<input type="checkbox"/> Processor Speed	<input type="checkbox"/> Number of Processors	<input type="checkbox"/> Processor Type	<input type="checkbox"/> Processor Architecture
<input type="checkbox"/> Total RAM	<input type="checkbox"/> Available RAM Slots	<input type="checkbox"/> SMC Version	<input type="checkbox"/> Battery Capacity
<input type="checkbox"/> Hard Drive Size	<input type="checkbox"/> SMART Status	<input type="checkbox"/> Boot Drive Full	
<input checked="" type="checkbox"/> Operating System	<input type="checkbox"/> Service Pack	<input type="checkbox"/> Active Directory Status	<input type="checkbox"/> Master Password Set
<input type="checkbox"/> FileVault Status	<input checked="" type="checkbox"/> SWU		
<input type="checkbox"/> Purchased/Leased	<input type="checkbox"/> PC Number	<input type="checkbox"/> PC Date	<input type="checkbox"/> Vendor
<input type="checkbox"/> Warranty Expires	<input type="checkbox"/> Lease Expires	<input type="checkbox"/> AppleCare ID	<input type="checkbox"/> Purchase Price
<input type="checkbox"/> Life Expectancy	<input type="checkbox"/> Purchasing Account	<input type="checkbox"/> Purchasing Contact	
<input type="checkbox"/> Active Network Interface	<input type="checkbox"/> Computer Sleep	<input type="checkbox"/> DNS Servers	<input type="checkbox"/> IP Geo-Location

Cancel Search

This pane allows you to choose 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**.

The screenshot shows the 'Advanced Computer Search' dialog box with the 'General' tab selected. The 'Report Name' field contains 'My Computer Search'. The 'Save this Report' checkbox is checked. The 'View As' dropdown menu is set to 'Standard Web Page'. There are three 'Sort Results By' dropdown menus, all set to 'Please Choose'. At the bottom right are 'Cancel' and 'Search' buttons.

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, choose 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 in Standard Webpage format. You can view the search results in any of the following alternate formats:

- 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

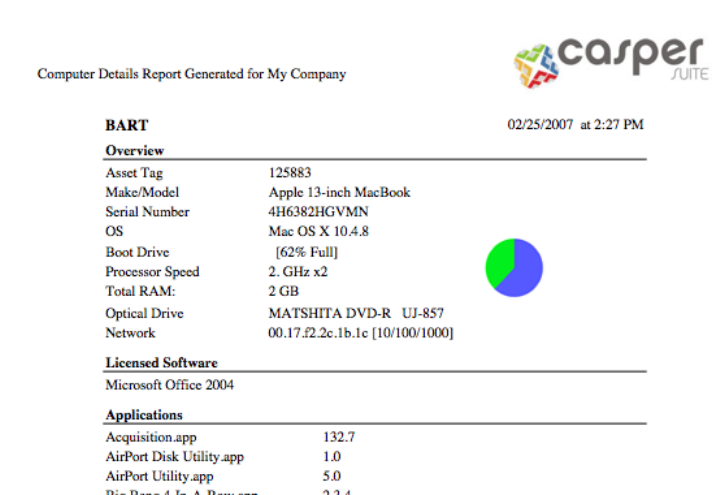
For simple computer searches, choose one of these options from the **View Results As** pop-up menu at the bottom of the results list. For advanced computer searches, choose one of these options from the **View As** pop-up menu on the General pane of the advanced search interface.

Note: The attributes displayed in simple computer search results are determined by your Inventory Display preferences. See the “Managing Inventory Attributes” section for more information. The attributes displayed in advanced computer search results are determined by the settings on the Display Fields pane of the advanced search interface. For more information, see “Performing Advanced Computer Searches”.

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.



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 are displayed for each computer:

- Computer Name
- Operating System
- User Information (including real name, username, and email address)
- Computer Model
- Computer Serial Number
- Processor Information
- RAM
- Hard Drive Size

Computer Overview Report Generated for My Company



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@jamfsoftware.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@jamfsoftware.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@jamfsoftware.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.com	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)	QT2393M3NDS	800 MHz x1	256 MB	74.53 GB
JAMF-233	Mac OS X 10.2.8	Broad Mobilia (bmobilia) - bmobilia@jamfsoftware.com	iMac (version = 2.1)	W8306ZB3-N3U- J11	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@jamfsoftware.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

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.

Software Change Report Generated for Internal Development



Software Changes for jam0012


Changes on 2007-05-13 16:04:57.0			
App Added	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 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 using version 9.0.1 and 22 people using 9.0.


Application Distribution Report Generated for My Company



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 


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:

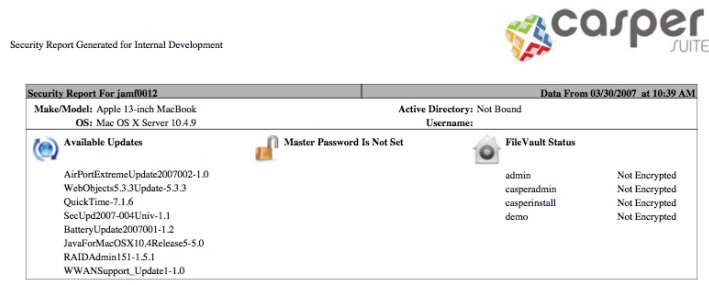
Security Report Generated for Internal Development 

Security Report For BART Data From 02/25/2007 at 2:27 PM

Make/Model: Apple 13-inch MacBook Active Directory: jamfsoftware.com
OS: Mac OS X 10.4.8 Username:

 Available Updates  All updates are applied	 Master Password Is Set. 	 FileVault Status wudijm Encrypted  All Accounts Encrypted
---	--	---

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:



CSV

This format exports your search results into a CSV file that you can open in Microsoft Excel and other spreadsheet applications.

Tab

This format exports your search results into a tab-delimited text file that you can open in Microsoft Excel and other spreadsheet applications.

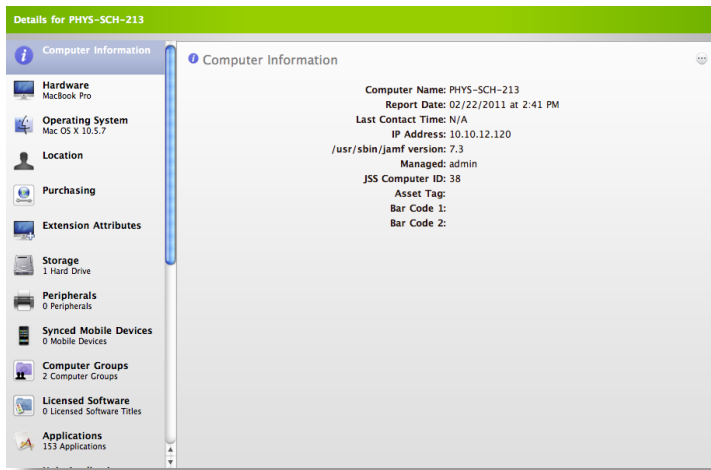
XML

This format exports your search results into an XML file. XML files are commonly used to move data between applications.

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.



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, and date/time of last inventory report	Edit computer information
Hardware	Hardware information, including make, model, and MAC address(es)	Edit hardware information View hardware/software history
Operating System	Information about the operating system, including system and version number	--
Location	Information about the computer's physical location on the network	Edit location information Perform LDAP lookup View location history
Purchasing	Purchasing information for the computer, including PO details, warranty information, and purchasing contact	Edit purchasing information Perform GSX lookup
Extension Attributes	Extension attributes collected from the computer	Edit values for non-script extension attributes
Storage	Storage information for each drive	--
Peripherals	A list of peripherals associated with the computer	Add peripheral Delete peripheral View peripheral details
Synced Mobile Devices	Information about mobile devices synced with the computer	View mobile device details

Category	Description	Actions that you can perform
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	--
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 username, real name, UID, and Home directory	--
Printers	A list of printers mapped to the computer	--
Services	A list of active services	--
UNIX Reports	Results for the following UNIX commands executed by Recon: u <p>t</p> <i>time</i> - Length of time since last reboot w - List of user that are logged in t <p>o</p> <i>p</i> - 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:

- Perform simple and advanced peripheral searches
- View peripheral search results
- View peripheral details

Performing Simple Peripheral Searches

A simple peripheral search functions like a search engine, allowing you to locate a general range of results quickly and easily.

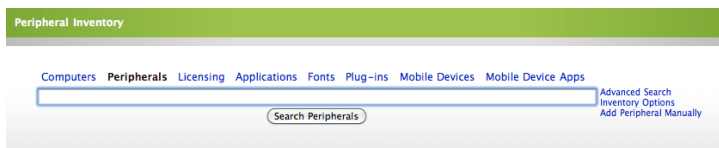
Simple searches can be performed based on the following attributes of a peripheral:

- Peripheral type
- Customizable peripheral fields
- Bar code
- Username
- Real name
- Email address
- Phone number
- Position
- Department
- Building
- Room
- 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. Enter one or more search terms into the search field.
5. Click the **Search Peripherals** button, or press the Enter key.

Performing Advanced Peripheral Searches

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

The screenshot shows the 'General' pane of the 'Advanced Peripheral Search' window. It features three tabs: 'General' (selected), 'Criteria', and 'Display Fields'. Below the tabs, there is a 'Report Name' text input field, a 'Save this Report' checkbox, and a 'View As' dropdown menu currently set to 'Standard Web Page'. At the bottom right, there are 'Cancel' and 'Search' buttons.

This pane allows you to 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

The screenshot shows the 'Criteria' pane of the 'Advanced Peripheral Search' window. It features three tabs: 'General', 'Criteria' (selected), and 'Display Fields'. Below the tabs is a table with columns for 'Field', 'Search Type', 'Criteria', and two empty columns. The table contains three rows of criteria: 'Peripheral Info', 'Location Info', and 'Peripheral Purchasing Info'. Each row has a '+' icon in the rightmost column. At the bottom right, there are 'Cancel' and 'Search' buttons.

Field	Search Type	Criteria		
		Peripheral Info		+
		Location Info		+
		Peripheral Purchasing Info		+

This pane allows you to 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

Advanced Peripheral Search

General Criteria Display Fields

☐ Username ☐ Real Name ☐ Email Address ☐ Department
☐ Building ☐ Room ☐ Phone ☐ Position
☐ Live LDAP Lookups

☐ Purchased/Leased ☐ PO Number ☐ PO Date ☐ Vendor
☐ Warranty Expires ☐ Lease Expires ☐ AppleCare ID ☐ Purchase Price
☐ Life Expectancy ☐ Purchasing Account ☐ Purchasing Contact

Cancel Search

This pane allows you to 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.

Advanced Peripheral Search

General Criteria Display Fields

Report Name: My Peripheral Search

Save this Report: ☒

View 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.
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 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

By default, peripheral search results are displayed in Standard Webpage format. You can view the search results in any of the following alternate formats:

- CSV
- Tab
- XML

For simple peripheral searches, choose one of these options from the **View Results As** pop-up menu at the bottom of the results list. For advanced peripheral searches, choose one of these options from the **View As** pop-up menu on the General pane of the advanced search interface.

Note: The attributes displayed in simple peripheral search results are determined by your Inventory Display preferences. See the “Managing Inventory Attributes” section for more information. The attributes displayed in advanced peripheral search results are determined by the settings on the Display Fields pane of the advanced search interface. For more information, see “Performing Advanced Peripheral Searches”.

CSV

This format exports your search results into a CSV file that you can open in Microsoft Excel and other spreadsheet applications.

Tab

This format exports your search results into a tab-delimited text file that you can open in Microsoft Excel and other spreadsheet applications.

XML

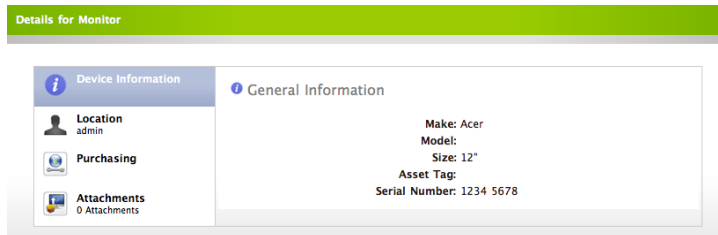
This format exports your search results into an XML file. XML files are commonly used to move data between applications.

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.

Peripheral reports are broken down into four sections:

- Device Information
- Location
- Purchasing
- Attachments



Searching Mobile Devices

Once mobile devices are added to the JAMF Software Server (JSS), they can be viewed for inventory and reporting purposes.

This section explains how to:

- Perform simple and advanced mobile device searches
- View mobile device details

Performing Simple Mobile Device Searches

A simple mobile device search functions like a search engine, allowing you to locate a general range of results quickly and easily.

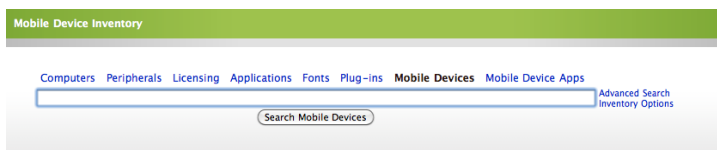
Simple searches can be performed based on the following mobile device attributes:

- | | |
|-----------------|-----------------|
| ▪ UDID | ▪ Username |
| ▪ Display name | ▪ Real name |
| ▪ Device name | ▪ Email address |
| ▪ GUID | ▪ Position |
| ▪ ICCID | ▪ Department |
| ▪ IMEI | ▪ Building |
| ▪ Phone number | ▪ Room |
| ▪ Serial number | |

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.



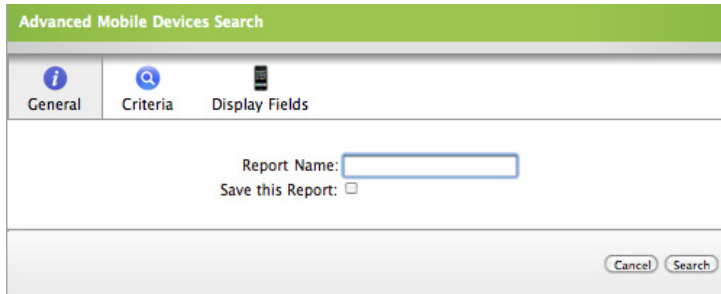
4. Enter one or more terms into the search field.
5. Click **Search Mobile Devices** or press the Enter key.

Performing Advanced Mobile Device Searches

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



The screenshot shows the 'Advanced Mobile Devices Search' window. At the top is a green header bar with the title. Below it is a navigation bar with three tabs: 'General' (selected, with an 'i' icon), 'Criteria' (with a magnifying glass icon), and 'Display Fields' (with a mobile phone icon). The main area of the 'General' pane contains a 'Report Name:' label followed by a text input field, and a 'Save this Report:' label followed by an unchecked checkbox. At the bottom right of the pane are 'Cancel' and 'Search' buttons.

This pane allows you to choose a reporting format and save the report so that you can access it at a later date.

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

Field	Search Type	Criteria			-	+
General Information						+
Mobile Device Details						+
Location						+
Purchasing						+
Applications						+
Security						+
Network						+
Certificates						+
Configuration Profiles						+
Provisioning Profiles						+

This pane allows you to 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
- Applications
- Security
- Network
- Certificates
- Configuration Profiles
- Provisioning Profiles

Display Fields Pane

Advanced Mobile Device Search

General Criteria **Display Fields**

<input checked="" type="checkbox"/> Mobile Device Display Name	<input checked="" type="checkbox"/> Mobile Device Serial Number	<input checked="" type="checkbox"/> UDID	<input type="checkbox"/> Wifi MAC Address
<input type="checkbox"/> Bluetooth MAC Address	<input type="checkbox"/> Managed		
<input type="checkbox"/> Device Name	<input type="checkbox"/> Capacity	<input type="checkbox"/> Available	<input type="checkbox"/> Percentage
<input checked="" type="checkbox"/> Phone Number	<input type="checkbox"/> Mobile Device Model	<input type="checkbox"/> OS Version	<input type="checkbox"/> OS Build
<input type="checkbox"/> GUID	<input type="checkbox"/> ICCID	<input type="checkbox"/> IMEI	<input type="checkbox"/> Modem Firmware
<input type="checkbox"/> Last Backup Time	<input type="checkbox"/> Last Inventory Update		
<input type="checkbox"/> Username	<input type="checkbox"/> Real Name	<input type="checkbox"/> Email Address	<input type="checkbox"/> Department
<input type="checkbox"/> Building	<input type="checkbox"/> Room	<input type="checkbox"/> Phone	<input type="checkbox"/> Position
<input type="checkbox"/> Purchased/Leased	<input type="checkbox"/> PO Number	<input type="checkbox"/> PO Date	<input type="checkbox"/> Vendor
<input type="checkbox"/> Warranty Expires	<input type="checkbox"/> Lease Expires	<input type="checkbox"/> AppleCare ID	<input type="checkbox"/> Purchase Price
<input type="checkbox"/> Life Expectancy	<input type="checkbox"/> Purchasing Account	<input type="checkbox"/> Purchasing Contact	
<input type="checkbox"/> Data Protection	<input type="checkbox"/> Hardware Encryption	<input type="checkbox"/> Passcode Present	<input type="checkbox"/> Block-Level Encryption
<input type="checkbox"/> File-Level Encryption	<input type="checkbox"/> Passcode Compliant	<input type="checkbox"/> Passcode Compliant with Profile	

Cancel Search

This pane allows you to specify the attributes 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 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 your search, enter a name for the report and select **Save this Report**.

Advanced Mobile Devices Search

General Criteria **Display Fields**

Report Name:

Save this Report: ☐

Cancel Search

6. Click the **Criteria** tab.

- Click **Add (+)** next the category you want to use to define your search.
A list of searchable items is displayed.

The screenshot shows the 'Advanced Mobile Device Search' dialog box with the 'Criteria' tab selected. The dialog has three tabs: 'General', 'Criteria', and 'Display Fields'. The 'Criteria' tab contains a table with columns: Field, Search Type, Criteria, -, and +. The table lists various categories with a '+' button in the '+' column for each. At the bottom are 'Cancel' and 'Search' buttons.

Field	Search Type	Criteria	-	+
General Information				
				+
Mobile Device Details				
				+
Location				
				+
Purchasing				
				+
Applications				
				+
Security				
				+
Network				
				+
Certificates				
				+
Configuration Profiles				
				+
Provisioning Profiles				
				+

- Click the item that you want to use in your search.
- Specify search criteria for the item.
- Click the **Display Fields** tab and select the attributes you want to display in the search results.

The screenshot shows the 'Advanced Mobile Device Search' dialog box with the 'Display Fields' tab selected. The dialog has three tabs: 'General', 'Criteria', and 'Display Fields'. The 'Display Fields' tab contains a grid of checkboxes for various attributes. At the bottom are 'Cancel' and 'Search' buttons.

<input checked="" type="checkbox"/> Mobile Device Display Name	<input checked="" type="checkbox"/> Mobile Device Serial Number	<input checked="" type="checkbox"/> UDID	<input type="checkbox"/> Wifi MAC Address
<input type="checkbox"/> Bluetooth MAC Address	<input type="checkbox"/> Managed		
<input type="checkbox"/> Device Name	<input type="checkbox"/> Capacity	<input type="checkbox"/> Available	<input type="checkbox"/> Percentage
<input checked="" type="checkbox"/> Phone Number	<input type="checkbox"/> Mobile Device Model	<input type="checkbox"/> OS Version	<input type="checkbox"/> OS Build
<input type="checkbox"/> GUID	<input type="checkbox"/> ICCID	<input type="checkbox"/> IMEI	<input type="checkbox"/> Modem Firmware
<input type="checkbox"/> Last Backup Time	<input type="checkbox"/> Last Inventory Update		
<input type="checkbox"/> Username	<input type="checkbox"/> Real Name	<input type="checkbox"/> Email Address	<input type="checkbox"/> Department
<input type="checkbox"/> Building	<input type="checkbox"/> Room	<input type="checkbox"/> Phone	<input type="checkbox"/> Position
<input type="checkbox"/> Purchased/Leased	<input type="checkbox"/> PO Number	<input type="checkbox"/> PO Date	<input type="checkbox"/> Vendor
<input type="checkbox"/> Warranty Expires	<input type="checkbox"/> Lease Expires	<input type="checkbox"/> AppleCare ID	<input type="checkbox"/> Purchase Price
<input type="checkbox"/> Life Expectancy	<input type="checkbox"/> Purchasing Account	<input type="checkbox"/> Purchasing Contact	
<input type="checkbox"/> Data Protection	<input type="checkbox"/> Hardware Encryption	<input type="checkbox"/> Passcode Present	<input type="checkbox"/> Block-Level Encryption
<input type="checkbox"/> File-Level Encryption	<input type="checkbox"/> Passcode Compliant	<input type="checkbox"/> Passcode Compliant with Profile	

- Click the **Search** button.

Viewing Mobile Device Search Results

By default, mobile device search results are displayed in Standard Webpage format. You can view the search results in any of the following alternate formats:

- CSV
- Tab
- XML

For simple mobile device searches, choose one of these options from the **View Results As** pop-up menu at the bottom of the results list. For advanced mobile device searches, choose one of these options from the **View As** pop-up menu on the General pane of the advanced search interface.

Note: The attributes displayed in simple mobile device search results are determined by your Inventory Display preferences. See the “Managing Inventory Attributes” section for more information. The attributes displayed in advanced mobile device search results are determined by the settings on the Display Fields pane of the advanced search interface. For more information, see “Performing Advanced Mobile Device Searches”.

CSV

This format exports your search results into a CSV file that you can open in Microsoft Excel and other spreadsheet applications.

Tab

This format exports your search results into a tab-delimited text file that you can open in Microsoft Excel and other spreadsheet applications.

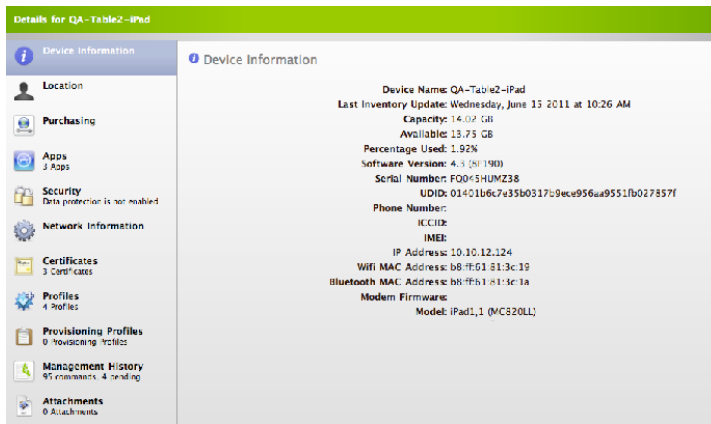
XML

This format exports your search results into an XML file. XML files are 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 perform actions, such as editing information, viewing history, and adding 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 Information	General information about the device, including device name, date/time of last inventory report, UDID, IP address, and management status	Generate an inventory report
Location	Information about the device's physical location on the network	Edit location information Perform LDAP lookup (See "Integrating with LDAP Servers" for information on setting up an LDAP server connection.)
Purchasing	Purchasing information for the device, including PO details, warranty information, and purchasing contact	Edit purchasing information Perform GSX lookup (See "Integrating with GSX" for information on setting up a GSX connection.)
Apps	A list of apps installed on the device	--
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, 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	--

Category	Description	Actions that you can perform
Provisioning Profiles	A list of provisioning profiles installed on the device, including expiration date	--
Attachments	A list of files attached to the device's inventory record	Upload attachments

Searching Software Inventory

Once you acquire computers, you can search and view installed applications, fonts, and plug-ins.

This section explains how to:

- Perform simple and advanced software searches
- View software search results

Performing Simple Software Searches

A simple software search functions like a search engine, allowing you to locate a general range of results quickly and easily.

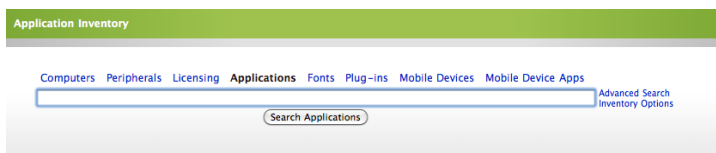
Simple searches can be performed based on the following attributes of a software record:

- 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.



4. Enter one or more search terms into the search field.
5. Click the **Search** button, or press the Enter key.

Performing Advanced Software Searches

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

The screenshot shows the 'General' tab of the 'Advanced Application Search' dialog. It features three tabs: 'General' (selected), 'Criteria', and 'Display Fields'. Below the tabs, there is a 'Report Name' text box, a 'Save this Report' checkbox, and a 'View As' dropdown menu set to 'Standard Web Page'. At the bottom right are 'Cancel' and 'Search' buttons.

This pane allows you to 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

The screenshot shows the 'Criteria' tab of the 'Advanced Application Search' dialog. It features three tabs: 'General', 'Criteria' (selected), and 'Display Fields'. Below the tabs, there are search criteria fields: 'Platform is Any' (with a dropdown), 'Application Name like' (with a dropdown and text box), and 'Application Version like' (with a dropdown and text box). At the bottom right are 'Cancel' and 'Search' buttons.

This pane allows you to 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

Advanced Application Search			
General Criteria Display Fields			
<input type="checkbox"/> Application Path	<input type="checkbox"/> Size	<input type="checkbox"/> Copyright	<input type="checkbox"/> Date Modified
<input type="checkbox"/> Bundle ID	<input type="checkbox"/> Permissions	<input type="checkbox"/> Registered To	<input type="checkbox"/> Company
<input type="checkbox"/> Serial Number 1	<input type="checkbox"/> Serial Number 2		
<input checked="" type="checkbox"/> Info Link	<input type="checkbox"/> JSS Computer ID	<input type="checkbox"/> Asset Tag	<input type="checkbox"/> Platform
<input checked="" type="checkbox"/> Computer Name	<input type="checkbox"/> Bar Code	<input type="checkbox"/> Last Contact Time	<input type="checkbox"/> Last Report Date
<input checked="" type="checkbox"/> Managed	<input type="checkbox"/> Jamf Binary Version	<input type="checkbox"/> IP Address	
<input type="checkbox"/> Username	<input type="checkbox"/> Real Name	<input type="checkbox"/> Email Address	<input type="checkbox"/> Department
<input type="checkbox"/> Building	<input type="checkbox"/> Room	<input type="checkbox"/> Phone	<input type="checkbox"/> Position
<input type="checkbox"/> Live LDAP Lookups			
<input type="checkbox"/> Make	<input checked="" type="checkbox"/> Model	<input type="checkbox"/> MAC Address	<input type="checkbox"/> NIC Speed
<input type="checkbox"/> Optical Drive	<input type="checkbox"/> Boot ROM	<input checked="" type="checkbox"/> Serial Number	<input type="checkbox"/> Processor Speed
<input type="checkbox"/> Number of Processors	<input type="checkbox"/> Processor Type	<input type="checkbox"/> Processor Architecture	<input type="checkbox"/> Total RAM
<input type="checkbox"/> Available RAM Slots	<input type="checkbox"/> SMC Version	<input type="checkbox"/> Battery Capacity	
<input type="checkbox"/> Hard Drive Size	<input type="checkbox"/> SMART Status	<input type="checkbox"/> Boot Drive Full	
<input checked="" type="checkbox"/> Operating System	<input type="checkbox"/> Service Pack	<input type="checkbox"/> Active Directory Status	<input type="checkbox"/> Master Password Set
<input type="checkbox"/> FileVault Status	<input type="checkbox"/> Number of Available Updates		
<input type="checkbox"/> Purchased/Leased	<input type="checkbox"/> PO Number	<input type="checkbox"/> PO Date	<input type="checkbox"/> Vendor
<input type="checkbox"/> Warranty Expires	<input type="checkbox"/> Lease Expires	<input type="checkbox"/> AppleCare ID	<input type="checkbox"/> OS AppleCare ID
<input type="checkbox"/> OS Maintenance Expires	<input type="checkbox"/> Purchase Price	<input type="checkbox"/> Life Expectancy	<input type="checkbox"/> Purchasing Account
<input type="checkbox"/> Purchasing Contact			

Cancel Search

This pane allows you to specify the attributes displayed in your search results when you view your search in one of the following reporting formats:

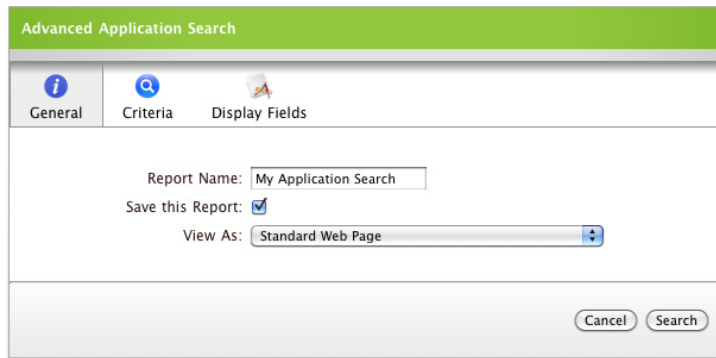
- Standard Webpage
- CSV
- Tab
- XML

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.

- Using the **View As** pop-up menu, choose the format in which you want to view the report.



The screenshot shows a dialog box titled "Advanced Application Search". It has three tabs: "General", "Criteria", and "Display Fields". The "General" tab is active. Inside the "General" tab, there is a text field for "Report Name" containing "My Application Search", a checkbox for "Save this Report" which is checked, and a dropdown menu for "View As" currently set to "Standard Web Page". At the bottom right of the dialog are "Cancel" and "Search" buttons.

- 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.
- Select each item that you want to use in your search, and further specify the search criteria using the fields provided.
- Click the **Display Fields** tab, and select the checkbox next to each attribute that you want displayed in your search results.
- Click the **Search** button.

Viewing Software Search Results

By default, software search results are displayed in Standard Webpage format. You can view the search results for advanced software searches in any of the following alternate formats by choosing from the **View As** pop-up menu on the General pane of the advanced search interface:

- CSV
- Tab
- XML

Note: The attributes displayed in advanced software search results are determined by the settings on the Display Fields pane of the advanced search interface. For more information, see "Performing Advanced Software Searches".

CSV

This format exports your search results into a CSV file that you can open in Microsoft Excel and other spreadsheet applications.

Tab

This format exports your search results into a tab-delimited text file that you can open in Microsoft Excel and other spreadsheet applications.

XML

This format exports your search results into an XML file. XML files are 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:

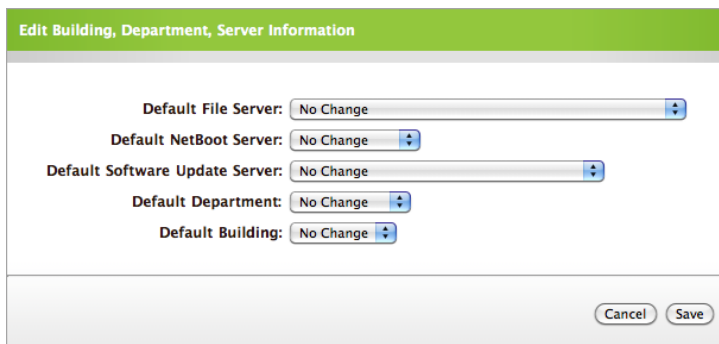
- Edit location information (building and department).
- Look up and populate purchasing information from Apple's Global Service Exchange (GSX).
- Email users.
- Delete from the JAMF Software Server (JSS).

Mass Editing Location Information

This allows you to edit the building and department for all results of a computer search.

To mass edit the building and department:

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 information as needed.



Dialog box titled "Edit Building, Department, Server Information".

Fields and their current values:

- Default File Server: No Change
- Default NetBoot Server: No Change
- Default Software Update Server: No Change
- Default Department: No Change
- Default Building: No Change

Buttons: Cancel, Save

6. Click the **Save** button.
7. Click **Continue** to confirm the change.

Mass Look up Purchasing Information from GSX

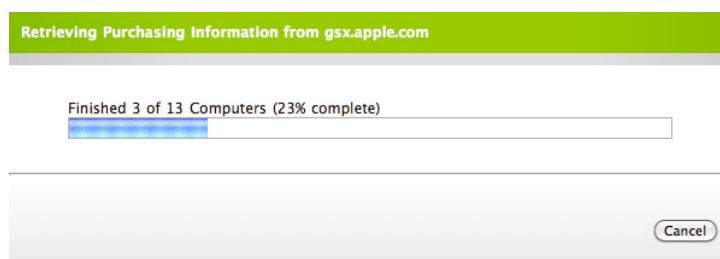
This allows you to look up and populate purchasing information from Apple's Global Service Exchange (GSX).

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.
6. If the results state that the JSS is already up-to-date, click the **Cancel** button.

Mass Emailing Users

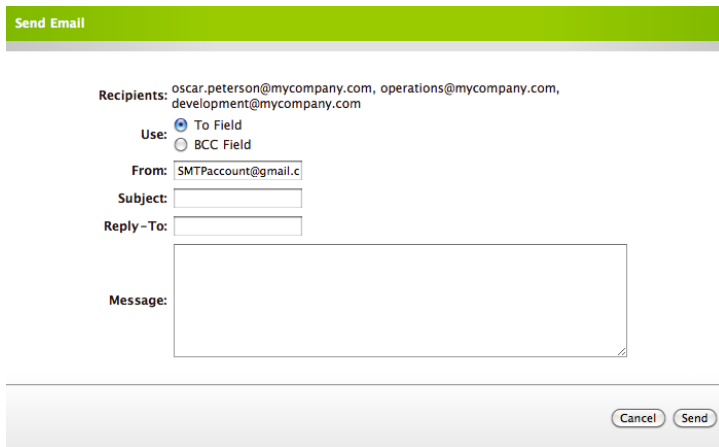
Mass emails are a convenient way to notify users of an upcoming software upgrade, a full drive, or another issue.

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.
6. 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.



The screenshot shows a 'Send Email' dialog box with a green header. The 'Recipients' field contains 'oscar.peterson@mycompany.com, operations@mycompany.com, development@mycompany.com'. The 'Use:' section has two radio buttons: 'To Field' (selected) and 'BCC Field'. The 'From:' field contains 'SMTPAccount@gmail.c'. The 'Subject:' and 'Reply-To:' fields are empty. The 'Message:' field is a large text area. At the bottom right are 'Cancel' and 'Send' buttons.

7. Click the **Send** button.
8. 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 all 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.

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

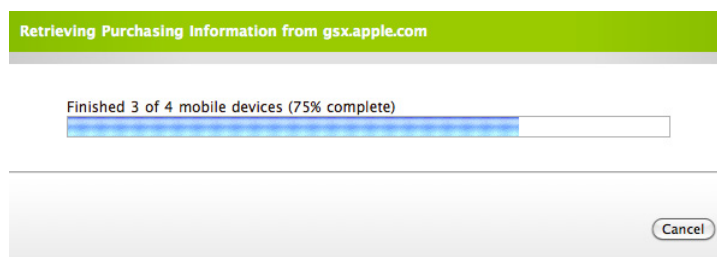
This allows you to look up and populate purchasing information from Apple's Global Service Exchange (GSX).

To utilize this feature, a GSX connection must be set up in the JSS. For more information on setting up this connection, see 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 mobile device 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 information is already up-to-date, click the **Cancel** button.

Mass Emailing Users

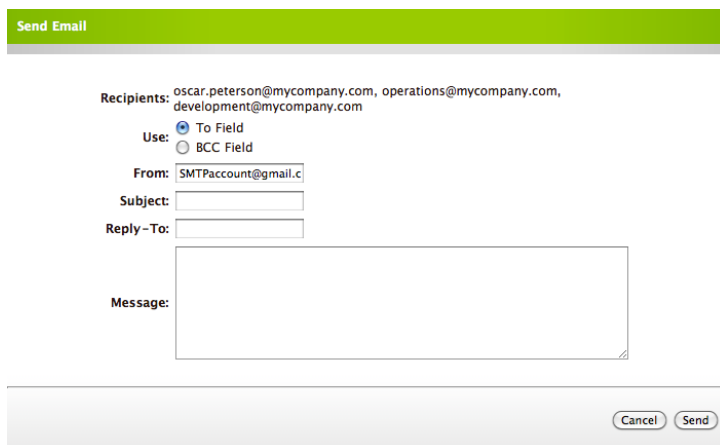
Mass emails are a convenient way to notify users of an upcoming update or another issue.

Mass emails are sent from the SMTP server that is specified in the JSS. If you have not specified an SMTP server, see 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 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.

The screenshot shows a 'Send Email' dialog box with a green header. The 'Recipients' field contains three email addresses: oscar.peterson@mycompany.com, operations@mycompany.com, and development@mycompany.com. The 'Use:' section has two radio buttons: 'To Field' (selected) and 'BCC Field'. The 'From:' field contains SMTPAccount@gmail.c. The 'Subject:' and 'Reply-To:' fields are empty. The 'Message:' field is a large text area. At the bottom right are 'Cancel' and 'Send' buttons.

6. Click the **Send** button.
7. Click **Continue** to confirm.

Mass Deleting Mobile Devices

You can remove devices from your inventory by deleting them from the JSS.

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 all 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 Computer Records

The JAMF Software Server (JSS) allows you to edit the following information:

- General information
- MAC address(es)
- Location information
- Purchasing information
- Non-script extension attributes

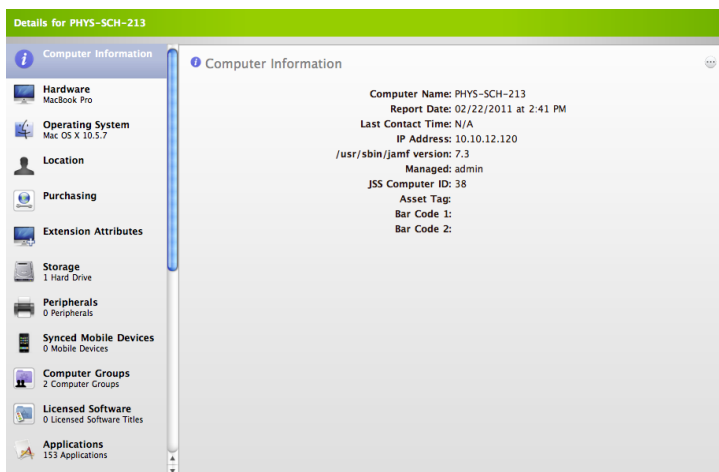
To edit a computer record:

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

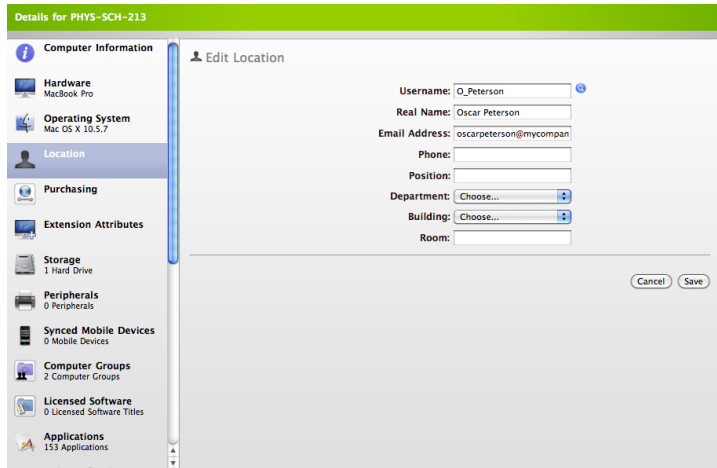
6. Click the **Ellipsis**  button to display the editable fields.



7. Add or modify information as needed.

If you are editing location or purchasing information, click the **Search**  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.




The screenshot shows a web interface titled "Details for PHYS-SCH-213". On the left is a sidebar with a tree view containing the following items: Computer Information (with a sub-item Hardware: MacBook Pro), Operating System (Mac OS X 10.5.7), Location (selected), Purchasing, Extension Attributes, Storage (1 Hard Drive), Peripherals (0 Peripherals), Synced Mobile Devices (0 Mobile Devices), Computer Groups (2 Computer Groups), Licensed Software (0 Licensed Software Titles), and Applications (153 Applications). The main content area is titled "Edit Location" and contains the following fields: Username (O_Peterson), Real Name (Oscar Peterson), Email Address (oscarpeterson@mycompany), Phone, Position, Department (Choose...), Building (Choose...), and Room. At the bottom right of the form are "Cancel" and "Save" buttons.

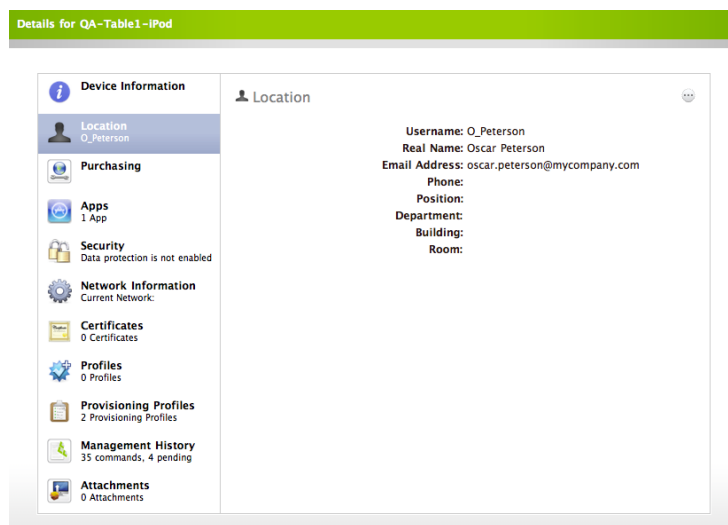
8. Click **Save**.


Editing Mobile Device Records

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.

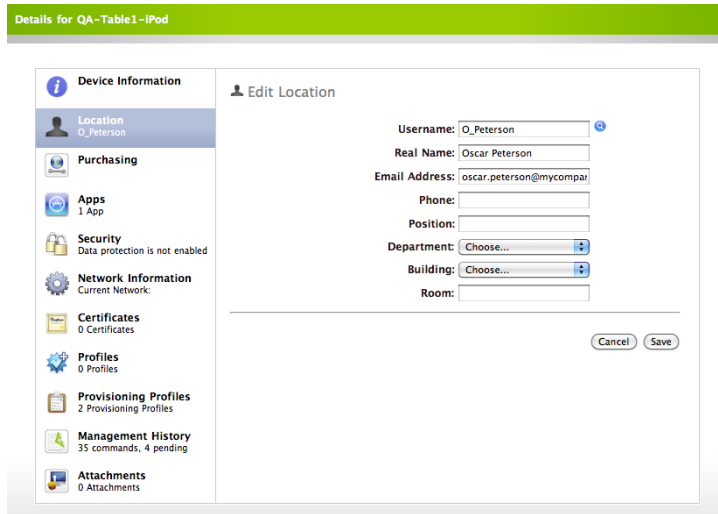
To edit location or purchasing information for a mobile device record:

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.



7. Add or modify information as needed, or click the **Search**  icon 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.

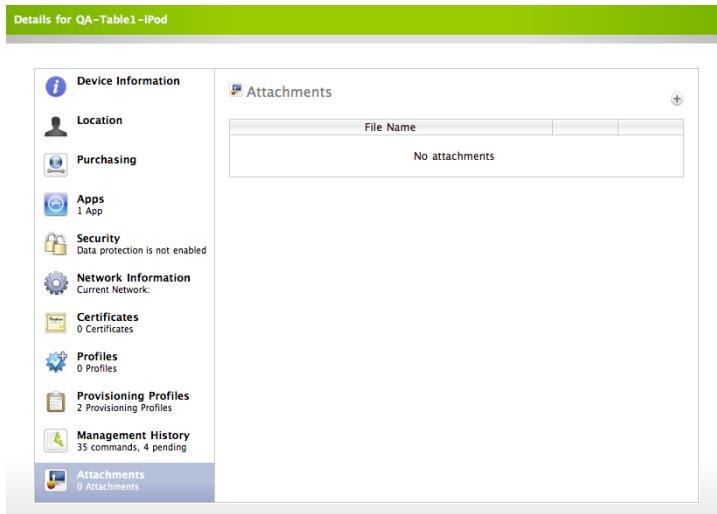


8. Click **Save**.

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 Computers 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.

Deleting Mobile Devices from the JSS

You can remove a mobile device from your inventory by deleting it from the JAMF Software Server (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.
5. Click the **Delete Mobile Device** 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:

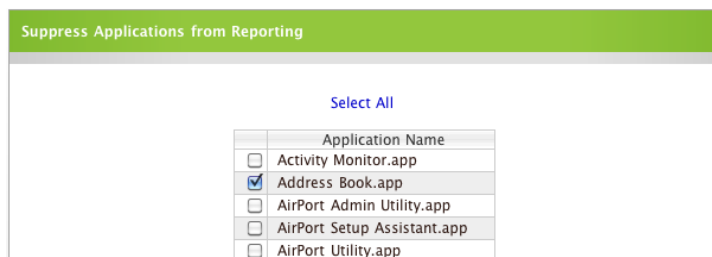
- Applications
- Fonts
- Plug-ins
- UNIX Executables
- Accounts

This section explains how to:

- 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.



6. Click the **Suppress Selected** button 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 **Unsuppress Selected** button at the bottom of the page.

Managing Custom Reports

You can add custom reports to the JAMF Software Server (JSS) to extend your inventory reporting capabilities.

These reports are available when using the Inventory pane in the 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 Recon Suite comes with several templates that you can use to create custom reports. These templates are simple JSP files. They are located in:

`/Library/JSS/Tomcat/webapps/ROOT/WEB-INF/reporting/`

Note: If you upgraded from Recon Suite v8.1 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.

This section explains how to create, edit, and delete a custom report.

To create a custom report:

1. Create a JSP file (using one of the templates or otherwise) and place it in the following location on the server:

`/Library/JSS/Tomcat/webapps/ROOT/WEB-INF/reporting/`

Note: If you upgraded from Recon Suite v8.1 or earlier, place the file in this location:

`/Library/Tomcat/webapps/ROOT/WEB-INF/reporting/`

2. 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 Recon Suite v8.1 or earlier, place the image files in this location:

`/Library/Tomcat/webapps/ROOT/reporting_images/`

3. Place any CSS (Cascading Style Sheet) files for the report in the following location:

`/Library/JSS/Tomcat/webapps/ROOT/reporting_theme/`

Note: If you upgraded from Recon Suite v8.1 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.



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.

Note: This name cannot contain spaces.

11. Enter the name of the JSP file in the **File Name** field.
This must match the name of the JSP file exactly.

A screenshot of a 'New Custom Report' dialog box. It has a green title bar. Inside, there are three text input fields: 'Display Name' with 'My Report' entered, 'Page Name' with 'myReport.html' entered, and 'File Name' with 'myReport.jsp' entered. Below the 'Page Name' field is a small text note: 'This is the text that will show up as part of the URL, e.g. export.html'. Below the 'File Name' field is another small text note: '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/'. At the bottom of the dialog is a checkbox labeled 'Include Software and Peripheral Information' which is currently unchecked. At the very bottom right are 'Cancel' and 'Save' buttons.

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.

License Management

Creating Licensed Software Records

Licensed software records allow you to define and store information about the software licenses owned by your organization. You can use this information to create more accurate inventory reports, monitor compliance, and quickly access license and purchasing information.

There are several ways to create a licensed software record:

- Create the record manually.
- Use a licensed software template that is built into the JSS.
- Upload a licensed software template.

You can download licensed software templates from JAMF Nation at:

<https://jamfnation.jamfsoftware.com/licensedSoftwareTemplates.html>

- Duplicate an existing licensed software record.

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.
5. Enter a display name for the licensed software record.
6. (Optional) Enter the name of the publisher.
7. Choose the platform that the license was obtained for.
8. To send an email to administrators when a license violation occurs, select the **Send Email Notification on Violation** checkbox.
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 “Enabling Email Notifications”.
9. To display only the name of the licensed software record in inventory reports and suppress the name of any individual software titles, select the **Remove Software Titles from Inventory Reports** checkbox.

10. (Optional) Enter additional information in the **Notes** field.

Edit Licensed 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

11. To store license and purchasing information in the record, see "To store license and purchasing information in a licensed software record".
12. To specify the software titles that count toward the license, see "To specify software definitions for a licensed software record".
13. Click **Save**.

To create a licensed software record from a template that is built into the JSS:

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.
5. Find the software title that you want to create a record for and click the **Create** link across from it.
6. Choose the platform that the license was obtained for.
7. To send an email to administrators when a license violation occurs, select the **Send Email Notification on Violation** checkbox.

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 "Enabling Email Notifications".
8. To display only the name of the licensed software record in inventory reports and suppress the name of any individual software titles, select the **Remove Software Titles from Inventory Reports** checkbox.

9. (Optional) Enter additional information in the **Notes** field.

The screenshot shows a window titled "Edit Licensed Software:". It has three tabs: "Info", "Licenses", and "Software Definitions". The "Info" tab is active. Inside the "Info" tab, there are several fields and checkboxes. The "Display Name" field contains "Adobe CS4 Web Standard". The "Publisher" field contains "Adobe Systems Incorporated". The "Platform" field is a dropdown menu currently showing "Macintosh". Below these are two checkboxes: "Send Email Notification on Violation" and "Remove Software Titles from Inventory Reports", both of which are unchecked. At the bottom of the tab is a large text area labeled "Notes:". At the very bottom of the window are "Cancel" and "Save" buttons.

10. To store license and purchasing information, see "To store license and purchasing information in a licensed software record".

The software titles that count toward the license are included in the template. To view them, click the **Software Definitions** tab.

11. Click **Save**.

To upload a licensed software 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 **Upload Licensed Software** button.
5. Click **Choose File** and select the licensed software template that you want to upload. Then, click **Upload Selected Template**.

The licensed software template must be an XML file.

6. Choose the platform that the license was obtained for.
7. To send an email to administrators when a license violation occurs, select the **Send Email Notification on Violation** checkbox.

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 "Enabling Email Notifications".

8. To display only the name of the licensed software record in inventory reports and suppress the name of any individual software titles, select the **Remove Software Titles from Inventory Reports** checkbox.

9. (Optional) Enter additional information in the **Notes** field.

The screenshot shows a window titled "Edit Licensed Software:". It has three tabs: "Info", "Licenses", and "Software Definitions". The "Info" tab is selected. Inside the "Info" tab, there are several fields and checkboxes. The "Display Name" field contains "Adobe CS4 Web Standard". The "Publisher" field contains "Adobe Systems Incorporated". The "Platform" field is a dropdown menu showing "Macintosh". Below these are two checkboxes: "Send Email Notification on Violation" and "Remove Software Titles from Inventory Reports", both of which are unchecked. At the bottom of the "Info" tab is a large text area labeled "Notes:". At the bottom right of the window are "Cancel" and "Save" buttons.

10. To store license and purchasing information, see "To store license and purchasing information in a licensed software record".

The software titles that count toward the license are included in the template. To view them, click the **Software Definitions** tab.

11. 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.
5. Find the licensed software record that you want to duplicate and click the **Duplicate** link across from it.
6. Enter a new display name for the licensed software record.
7. Add or modify license and purchasing information, and software definitions as needed.
8. Click **Save**.

To store license and purchasing information in 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 licensed software record or edit an existing one.
 - To create a licensed software record, click the **Create New License** button or use one of the other methods explained in this guide.
 - To edit a licensed software 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 the license.
8. (Optional) Enter the name of the organization that owns the license.
9. (Optional) Enter the name of the individual that the license is registered to.
10. (Optional) Select the type of license and enter the number of licenses owned.
11. (Optional) Enter additional information in the **Notes** field.
12. (Optional) Specify purchasing information for the license.
13. Click **Store License**.

Edit Licensed Software: Example

Info Licenses Software Definitions

License Info

Serial Number 1:

Serial Number 2:

Organization Name:

Registered To:

License For: ☒ 0 Licenses ☐ Concurrent Licenses ☐ Site License

Notes:

Cancel Store License

Purchasing Info

Perpetual License ☒ Annual License ☐

PO Number: PO Date: / /

Vendor: License Expires: / /

Purchase Price: Life Expectancy:

Purchasing Account: Purchasing Contact:

No Attachments.

[Attach File...](#)

Cancel Store License

Cancel Save

14. Repeat steps 6 through 13 for each additional license.
15. Click **Save**.

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 licensed software record or edit an existing one.
 - To create a licensed software record, click the **Create New License** button or use one of the other methods explained in this guide.
 - To edit a licensed software record, click the **Edit** link across from it.
5. Click the **Software Definitions** tab.
6. To add an application, font, or plug-in, click the **Add** link for the item that you want to add.

The screenshot shows the 'Edit Licensed Software: Example' window with the 'Software Definitions' tab selected. The window has three tabs: 'Info', 'Licenses', and 'Software Definitions'. Below the tabs are three sections for adding definitions:

- Applications:** A table with columns 'Application Name' and 'Version'. It contains the text 'There are no Applications entered' and a link 'Add Application...'.
- Fonts:** A table with columns 'Font Name' and 'Version'. It contains the text 'There are no Fonts entered' and a link 'Add Font...'.
- Plug-ins:** A table with columns 'Plug-in Name' and 'Version'. It contains the text 'There are no Plug-ins entered' and a link 'Add Plug-in...'.

At the bottom right of the window are 'Cancel' and 'Save' buttons.

7. Specify the title and version number and click the **Store Definition** button.

The screenshot shows the 'Edit Licensed Software: Example' window with the 'Software Definitions' tab selected. The 'Application Info' section is visible, containing a form with the following fields:

- Title:** A text input field with the value 'is'.
- Version:** A dropdown menu with the value 'like' and a text input field.

Below the form are 'Cancel' and 'Store Definition' buttons. At the bottom right of the window are 'Cancel' and 'Save' buttons.

8. Repeat steps 6 and 7 for each additional item.
9. Click **Save**.

To edit 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. Find the record that you want to edit and click the **Edit** link across from it.
5. Add or modify information as needed.
6. Click **Save**.

To delete 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. Find the record that you want to delete and click the **Delete** link across from it.
5. Click the **Delete** button to confirm.

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:

- Perform simple and advanced licensing searches
- View licensing search results

Performing Simple Licensing Searches

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:

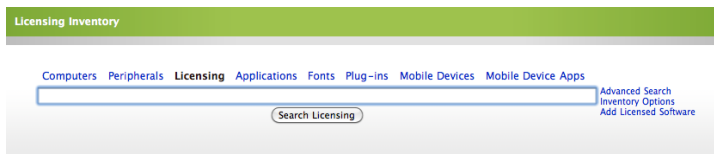
- | | |
|---|---|
| ▪ Display Name | ▪ Serial Numbers for Associated Licenses |
| ▪ Publisher | ▪ Purchasing Accounts for Associated Licenses |
| ▪ Notes | ▪ Purchasing Contacts for Associated Licenses |
| ▪ Registration Information for Associated Licenses (organization or individual that a license is registered to) | ▪ 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. Enter 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.

A screenshot of the search results page. At the top, there's a green navigation bar with links: 'Inventory', 'Management', 'Logs', 'Settings', and 'Search JSS Topics'. Below the navigation bar, there's a 'Logout admin' link. The main content area shows '83 Results (1.78 seconds)' and a section titled 'Licensed Software'. Below this title is a table with three columns: 'Display Name', 'Total Licenses', and 'Licenses Used'. The table contains three rows of data. The first row is 'OmniOutliner Professional' with 12 total licenses and 8 licenses used. The second row is 'VMWare Fusion' with 18 total licenses and 18 licenses used. The third row is 'OmniGraffle Professional 5' with 7 total licenses and 6 licenses used. To the right of each row, there is a link that says 'View Computers...'.

Display Name	Total Licenses	Licenses Used	
OmniOutliner Professional	12	8	View Computers...
VMWare Fusion	18	18	View Computers...
OmniGraffle Professional 5	7	6	View Computers...

Performing Advanced Licensing Searches

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

The screenshot shows the 'General' tab of the 'Advanced Licensing Search' window. It features three tabs: 'General' (selected), 'Criteria', and 'Display Fields'. Below the tabs, there is a 'Report Name' text box, a 'Save this Report' checkbox, and a 'View As' dropdown menu currently set to 'Standard Web Page'. At the bottom right, there are 'Cancel' and 'Search' buttons.

This pane allows you to 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

The screenshot shows the 'Criteria' tab of the 'Advanced Licensing Search' window. It features three tabs: 'General', 'Criteria' (selected), and 'Display Fields'. Below the tabs is a table with columns for 'Field', 'Search Type', 'Criteria', and a '+' sign. The table lists three categories: 'Licensed Software Info', 'Software Licenses Info', and 'License Purchasing Info', each with a '+' sign in the rightmost column. At the bottom right, there are 'Cancel' and 'Search' buttons.

Field	Search Type	Criteria	+
		Licensed Software Info	+
		Software Licenses Info	+
		License Purchasing Info	+

This pane allows you to 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

Advanced Licensing Search

General Criteria Display Fields

☒ Display Name ☐ Publisher ☐ Platform ☒ Total Licenses
☒ Licenses Used ☐ Compliant ☒ Matching Computers

☐ License Serial Number ☐ Organization Name ☐ License Registered To

☐ Perpetual License/Annual License ☐ PO Number ☐ PO Date ☐ Vendor
☐ Warranty Expires ☐ Lease Expires ☐ AppleCare ID ☐ Purchase Price
☐ Life Expectancy ☐ Purchasing Account ☐ Purchasing Contact

Cancel Search

This pane allows you to 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.

Advanced Licensing Search

General Criteria Display Fields

Report Name:

Save this Report: ☒

View As:

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

By default, licensing search results are displayed in Standard Webpage format. You can view the search results for advanced licensing searches in any of the following alternate formats by choosing from the **View As** pop-up menu on the General pane of the advanced search interface:

- Licensing Compliance Report (PDF)
- Printable Licensed Software Record (PDF)
- CSV
- Tab
- XML

Note: The attributes displayed in advanced licensing search results are determined by the settings on the Display Fields pane of the advanced search interface. For more information, see “Performing Advanced Licensing Searches”.

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.



The screenshot shows a web interface with a green navigation bar containing 'Inventory', 'Management', 'Logs', 'Settings', and a search bar. Below the navigation bar is a 'Logout admin' link. The main content area displays '14 Results (1.00 seconds)' and a section titled 'Licensed Software'. Below this is a table with the following data:


Display Name	Total Licenses	Licenses Used	
Adobe Acrobat Pro 9	1	2	View Computers...
Adobe Bridge CS4	1	0	
Adobe Device Central CS4	1	0	
Adobe Illustrator	1	1	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 your organization owns are marked with a yellow alert to the left of the record.

License Compliance Report Generated for My Company



	Licensed Software Name	Licenses Owned	Licenses Used
⚠	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.

Licensed Software Records for My Company

Microsoft Office 2004

Licensed Software Overview

Publisher	Microsoft Corp
Platform	mac
Notes	Purchased directly from Microsoft.

License #1

Serial Number	XB6JW-2JJCV-DXC8B-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-DXC8B-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 format exports your search results into a CSV file that you can open in Microsoft Excel and other spreadsheet applications.

Tab

This format exports your search results into a tab-delimited text file that you can open in Microsoft Excel and other spreadsheet applications.

XML

This format exports your search results into an XML file. XML files are 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, the JSS sends an email notification.

Sending email notifications on licensed software violations requires:

- An SMTP server set up in the JSS (For instructions on how to set up an SMTP server, see “Enabling Email Notifications”).
- The Software License Violation option enabled for each account that you want to receive notifications (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 Licensed Software: Adobe CS4 Web Standard

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