



# Casper Suite Release Notes

Version 9.81

JAMF Software, LLC  
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# What's New in This Release

- **Support for OS X v10.11**—Computers with OS X v10.11 can be enrolled and managed with the Casper Suite.
- **Volume Purchase Program (VPP) enhancements:**
  - You can now distribute apps directly to mobile devices with iOS 9 or later via VPP-managed distribution.  
To access this feature in the JSS, navigate to **Mobile Devices > Apps** > add or edit an App Store app > **VPP** tab > **Device Assignments** tab.
  - The JSS now displays a message if a selected VPP service token is in use by another MDM server. You can then reclaim the VPP service token for the JSS.
- **App Store app update enhancements:**
  - You can now automatically update all App Store app descriptions, icons, and versions in the JSS and on mobile devices. In addition, you can do this for an individual App Store app.  
To access this feature in the JSS, navigate to **Settings > Mobile Device Management > App Updates** . For an individual App Store app, you can access this setting on the General tab when adding or editing the app.
  - You can now force updates immediately for all App Store apps on mobile devices if updates are available. In addition, you can do this for an individual App Store app.  
To access this feature in the JSS, navigate to **Settings > Mobile Device Management > App Updates** . For an individual App Store app, you can access this feature on the General tab when editing the app.

For a complete list of deprecations, removals, bug fixes, and enhancements, see the [Deprecations and Removals](#) and the [Bug Fixes and Enhancements](#) sections.

To view a complete list of the feature requests implemented in v9.81, go to: <https://jamfnation.jamfsoftware.com/featureRequests.html?releaseID=123>

**Note :** New privileges associated with new features in the Casper Suite are disabled by default.

# Installation

## Preparing to Upgrade

To ensure the upgrade goes as smoothly as possible, review the best practices, tips, and considerations explained in the following Knowledge Base articles:

- [Preparing to Upgrade the JSS](#)—Explains the best practices for evaluating and preparing for an upgrade.
- [Upgrading the JSS in a Clustered Environment](#)—Provides step-by-step instructions for upgrading the JSS in a clustered environment.

It is also recommended that you review the [Functionality Changes and Other Considerations](#) section to determine if changes made to the Casper Suite since your last upgrade could impact your environment or require you to take action.

## Functionality Changes and Other Considerations

Depending on the version you are upgrading from, changes made to the Casper Suite since your last upgrade could impact your current environment setup or workflows.

The following table explains key changes and additions to the Casper Suite, the versions in which they were implemented, and where to get more information.

Starting with...	Change or Consideration	Description	Additional Resources
v9.8	Change in the removal of devices from DEP	The JSS can no longer be used to remove a device from Apple's Device Enrollment Program (DEP). Go to the <a href="#">Apple Deployment Programs</a> website to remove the device.	N/A

Starting with...	Change or Consideration	Description	Additional Resources
v9.8	New location for jamf binary	<p>The jamf binary is automatically moved from <code>/usr/sbin/jamf</code> to its new location, <code>/usr/local/jamf/bin/jamf</code>, during an upgrade to the Casper Suite v9.8.</p> <p>During the upgrade, the database is scanned for packages, scripts, and extension attributes that reference the previous location of the binary. If items are found, notifications are displayed in the JSS after the upgrade is complete. These items need to be modified to reference the new location of the binary, which can be done in the JSS by clicking the notifications.</p> <p>Items that are not stored in the database and reference the previous location of the binary need to be modified to reference the new location.</p>	N/A
v9.73	Recommended update of encryption ciphers for HTTPS connections	If you are upgrading the Casper Suite v9.72 or earlier, you must update the list of encryption ciphers for HTTPS connections in order to remediate a known security vulnerability.	<a href="#">Configuring Supported Ciphers for Tomcat HTTPS Connections</a>
v9.7	Wildcard character changes for smart groups	<p>The JSS v9.7 or later no longer recognizes the percent sign (%) as a wildcard character for smart group criteria. The percent sign is now recognized as a literal character.</p> <p>Remove the percent sign from the smart group criteria and change the operator to "like" to ensure that smart group memberships are calculated correctly.</p>	N/A
v9.7	Application deletion limitation in restricted software	An application can be deleted only if using the Restrict exact process name option. If you edit a restricted software record created using the Casper Suite v9.66 or earlier, the Restrict exact process name checkbox will be selected automatically if the Delete application option is enabled. This could cause the existing restricted software record to behave differently. For example, any wildcard character (*) used in the Process Name field will function as a literal character.	N/A

Starting with...	Change or Consideration	Description	Additional Resources
v9.51	Modified support for OS X v10.5 and v10.6	Features implemented in the Casper Suite v9.51 or later are no longer supported on computers with OS X v10.5 and v10.6. Workflows implemented prior to v9.51 will continue to function, but they may require earlier versions of the client applications.	"Requirements" section in the <i>Casper Suite Administrator's Guide</i>
v9.5	App distribution allowed with App Store restrictions enabled	Apps can be distributed to mobile devices with iOS 7 or later even when the App Store is restricted on those devices. To do this, you must redistribute iOS configuration profiles that have the <b>Allow installing apps</b> checkbox deselected in the Restrictions payload.	<a href="#">Distributing Apps to Mobile Devices with App Store Restrictions After Upgrading to the JSS v9.5 or Later</a>
v9.3	User management and VPP integration	The JSS can be configured to integrate with VPP, and users can be managed from the <b>Users</b> tab in the JSS. To take advantage of this functionality, you must first complete the user migration process.	<a href="#">Migrating Users</a>
v9.21	Distribution of signed iOS configuration profiles from Apple	Signed iOS configuration profiles from Apple can be uploaded to the JSS and distributed.	<a href="#">Distributing a Signed Configuration Profile from Apple</a>
v9.1	Enrollment profile requirements for iOS 7 or later	Enrollment profiles created using the Casper Suite v9.0 or earlier cannot be used to enroll mobile devices with iOS 7 or later. If you plan to enroll devices with iOS 7 or later, create a new enrollment profile using the Casper Suite v9.1 or later. <b>Note:</b> Mobile devices enrolled with the Casper Suite v9.0 or earlier using an enrollment profile do not need to be re-enrolled when upgraded to iOS 7.	"Enrollment Profiles" section in the <i>Casper Suite Administrator's Guide</i>
v9.0	Deprecation of support for custom reports	Custom reports are no longer supported and are not migrated during an upgrade from v8.x.	N/A

Starting with...	Change or Consideration	Description	Additional Resources
v9.0	Loss of certain of Managed Preferences	Due to a change in the way that Managed Preferences work in v9.x, two types of Managed Preferences are lost when upgrading from v8.x.	<a href="#">Managed Preferences and Upgrading to the JSS v9.0 or Later</a>
v9.0	Deprecation of support for smart groups with certain criteria	The JSS no longer supports smart groups that contain "Version" and "Title" criteria listed in that order. It is recommended that you switch the order to "Title"-"Version" before upgrading from v8.x.	<a href="#">Switching the Order of Smart Group Criteria</a>
v9.0	API improvements	Earlier versions of the JSS API returned inconsistent values, making it difficult to compare values and maintain consistency. Several changes have been made to improve this.	<a href="#">Improvements in the JSS API v9.0</a>
v8.72	Deprecation of enrollment profiles downloaded from v8.71 or earlier	Enrollment profiles downloaded from the Casper Suite v8.71 or earlier cannot be used to enroll mobile devices with v8.72 or later.  Re-download any enrollment profiles that were downloaded with v8.71 or earlier. Use the newly downloaded versions to enroll mobile devices with v8.72 or later.	N/A
v8.3	MDM profile distribution required for app management on certain devices	An MDM profile that supports app management must be distributed via the Self Service web clip to managed iOS 4 devices that are upgraded to iOS 5 or later.	<a href="#">Distributing Updated MDM Profiles</a>
v8.3	Recommended enablement of certificate-based authentication	If you are upgrading the Casper Suite v8.2x or earlier, it is recommended that you enable certificate-based authentication. Doing so ensures that device certificates on OS X computers are valid.	<a href="#">Certificate-Based Authentication for OS X Computers</a>

## Upgrading the JSS

This section explains how to upgrade the JSS using the JSS Installers. If the JSS host server does not meet the JSS Installer requirements, you can install the JSS manually using the instructions in the "[Manually Installing the JAMF Software Server](#)" technical paper.

### Installed Components

The following components are installed on the JSS host server by the JSS Installer:



- JSS web application
- JSS Database Utility
- Apache Tomcat

To find out which version of Tomcat will be installed, see the [Apache Tomcat Version Installed by the JSS Installer](#) Knowledge Base article.

**Note:** To take full advantage of all new features, bug fixes, and enhancements available in the Casper Suite, it is recommended that you use the latest version of the JSS and the client applications. To upgrade the client applications, simply replace the existing applications with the latest version.

## JSS Installer Requirements

### JSS Installer for Mac

To use the JSS Installer for Mac, you need a Mac computer with:

- A 64-bit capable Intel processor
- 2 GB of RAM
- 400 MB of disk space available
- OS X v10.7 or later
- OS X Server (recommended)
- Java SE Development Kit (JDK) 1.7 or 1.8 for Mac OS X  
You can download the JDK from:  
<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>
- Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 1.7 or 1.8  
You can download the JCE from:  
<http://www.oracle.com/technetwork/java/javase/downloads/jce8-download-2133166.html>
- 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 Installer for Linux

To use the JSS Installer for Linux, you need a server with:

- A 64-bit capable Intel processor
- 2 GB of RAM
- 400 MB of disk space available
- One of the following operating systems:
  - Ubuntu 12.04 LTS Server (64-bit)
  - Ubuntu 14.04 LTS Server (64-bit)
  - Red Hat Enterprise Linux (RHEL) 6.4 or later
- Open Java Development Kit (OpenJDK) 7 or 8  
For installation information, go to <http://openjdk.java.net/install/>.

- 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 8080 available

## JSS Installer for Windows

To use the JSS Installer for Windows, you need a server with:

- A 64-bit capable Intel processor
- 2 GB of RAM
- 400 MB of disk space available
- Windows Server 2008 R2 (64-bit), Windows Server 2012 (64-bit), or Windows Server 2012 R2 (64-bit)
- Java SE Development Kit (JDK) 1.7 or 1.8 for Windows x64  
You can download the JDK from:  
<http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>
- Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 1.7 or 1.8  
You can download the JCE from:  
<http://www.oracle.com/technetwork/java/javase/downloads/jce8-download-2133166.html>
- 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 8080 available

## Upgrading the JSS from v8.x to v9.x

In addition to the changes explained in the [Functionality Changes and Other Considerations](#) section, there are a few things to be aware of when upgrading from v8.x to v9.x.

### Time to Upgrade

The amount of time it takes to upgrade the JSS has increased due to the number of changes and improvements in the JSS v9.x. The amount of time it takes depends on the size of the database and the number of features that are utilized.

In general, it is recommended that you upgrade the JSS during non-business hours.

### Upgrade Failures

If an upgrade fails, do not downgrade. Contact JAMF Software Support.

### Upgrading from v8.64 or Earlier

When upgrading from v8.64 or earlier, first upgrade to v8.73.

1. Upgrade the JSS to v8.73.
2. Ensure that the upgrade was successful.
3. Back up the database.
4. Upgrade to v9.x. See the [Upgrading the JSS](#) section.

### Rescheduling Database Backups

If database backups were scheduled using the JSS Database Utility v8.2, it is recommended that you reschedule them using the JSS Database Utility from the target version.

For more information, see the JSS installation and configuration guide for the appropriate platform.

### Upgrading the JSS

Use the following instructions to upgrade a JSS hosted on Mac or Linux. To upgrade a JSS hosted on Windows, see "Upgrading the JSS" in the [JSS Installation and Configuration Guide for Windows](#).

1. Back up the current database using the JSS Database Utility.
2. Copy the most current version of the JSS Installer for your platform to the server.
3. Double-click the installer and follow the onscreen instructions to complete the upgrade.

## Upgrading the JSS Host Server to OS X Server v10.11

This section explains how to upgrade the JSS host server from OS X Server v10.10 to v10.11.

1. Back up the current database.
2. Upgrade to OS X v10.11.
3. Install Java 1.8 and JCE 1.8.  
For instructions, see the [Installing Java and MySQL](#) Knowledge Base article.
4. Follow the instructions for upgrading the JSS.

# Deprecations and Removals

There are no deprecations or removals in this release.

# Bug Fixes and Enhancements

## Casper Focus

- [D-008812] Fixed an issue that caused Casper Focus to fail to display a login prompt and to incorrectly display “No Classes Available” if the app was closed and reopened after the JSS connection was lost or if the user’s login credentials were changed.
- [D-009612] Fixed an issue that caused Casper Focus to fail to respond if it was deployed as a managed app, uninstalled, and then reinstalled on a device.
- [D-009623] Fixed an issue that prevented Casper Focus from clearing the passcode on student devices from a teacher device if Casper Focus is displayed in French or German on the teacher device.

## Casper Imaging

- [D-008138] Fixed an issue that sometimes prevented Casper Remote, Casper Imaging and Recon from authenticating to a JSS running on CentOS.
- [D-009002] Fixed an issue that prevented Casper Imaging from creating partitions when the configuration included a Windows partition.

## Documentation

- [D-008294] The *Casper Suite Administrator's Guide* has been updated to state that an Internet connection is required during the Setup Assistant in order for devices to enroll using a PreStage enrollment.
- [D-008958] The *Casper Suite Administrator's Guide* has been updated to include a more accurate description of scope functionality.

## JAMF Software Server

- [D-007197] Fixed an issue that caused the JSS to incorrectly display mobile devices in the Scope tab for mobile device apps, eBooks, and configuration profiles if the scope is set to target specific mobile devices and a mobile device is deleted from the JSS.
- [D-008681] Self Service Mobile for iOS no longer displays an error if the name of the mobile device contains special characters.
- [D-008910] The JSS no longer displays a blank page when attempting to add a JSS user account from an LDAP directory service if the LDAP connection is configured with a shortened search base that does not allow wildcards.
- [D-009331] Fixed an issue that caused the JSS API to fail to return all mobile devices a user is assigned to if the user is assigned to multiple devices and the data is returned as a JSON response.

- [D-009352] In a large environment of computers (e.g., 10,000 or more), editing and saving a smart computer group no longer takes a long time to finish and does not cause the page to time out.
- [D-009383] Fixed an issue that caused the JSS to incorrectly add all enrolled devices to a smart mobile device group or a smart computer group if a criterion is removed, and remaining criteria are connected by the “or” operator.
- [D-009384] The JSS no longer fails to refresh information for an iOS app in a VPP assignment if the app name contains an apostrophe (').
- [D-009485] When a large number of mobile devices (e.g., more than 9,000) are added to a static group using the JSS API, the group addition no longer times out.
- [D-009606] Fixed an issue that prevented devices enrolled using a PreStage enrollment from being enrolled in the JSS.
- [D-009615] Fixed an issue that prevented the JSS from correctly calculating a smart user group membership if the smart user group is configured to use the “VPP Invitation Status is Associated” criteria.

# Known Issues

The following issue is known in the Casper Suite:

iOS 9 devices cannot be enrolled using Apple Configurator 1.7.2 or later with an enrollment URL. As a workaround, install an enrollment profile using Configurator instead. For detailed instructions, see the [Installing Enrollment Profiles Using Apple Configurator or iPCU](#) Knowledge Base article.

The following issues are a result of bugs in third-party software. Defects have been filed for these bugs and are awaiting resolution.

- When users try to access the Self Service web clip on a mobile device with iOS 7.0.1 or 7.0.2, Self Service opens in Safari instead of as a web clip.
- eBooks and unmanaged apps cannot be installed from the Self Service web clip on iOS 7 devices until the Self Service web clip is updated for iOS 7. For more information, see the [Updating the Self Service Web Clip for iOS 7](#) Knowledge Base article.
- Management account passwords configured using the network scanner in Recon v9.01 – 9.11 are not saved correctly in the JSS if they contain an “at” symbol (@). This prevents management tasks from being performed on the affected computers. For more information, see the [Casper Remote Error: An Incorrect Username/Password is Entered for this Computer](#) Knowledge Base article.
- [D-004197] Printers mapped using an OS X configuration profile are not displayed in “Print and Scan” in System Preferences unless the **Allow printers that connect directly to user’s computer** checkbox is selected in the configuration profile.
- [D-004198] OS X configuration profiles that are configured to display a heading on the login window fail to do so.
- [D-004382] Tapping the URL in an email enrollment invitation on an iOS 6 device draws a blank page. Users should copy-and-paste the URL into the Safari app instead.
- [D-005532] OS X configuration profiles with a Login Window payload that is configured to deny users and groups the ability to log in fail to do so.
- [D-005882] The **Computer administrators may refresh or disable management** option in a Login Window payload of an OS X configuration profile is not applied at login.
- [D-005900] The JSS fails to install configuration profiles with a Web Clip payload on computers with OS X v10.9.
- [D-006026] The JSS fails to restrict Game Center when the **Allow use of Game Center** checkbox is deselected in the Restrictions payload in OS X configuration profiles.
- [D-006058] User-level OS X configuration profiles with widget restrictions fail to restrict widgets.
- [D-006250] A customized Self Service web clip icon uploaded using the JSS will revert to the default Casper Suite icon on iOS 7 devices.
- [D-006393] The **Start screen saver after** option in a Login Window payload of an OS X configuration profile is not applied on computers with OS X v10.8.4 or v10.8.5.
- [D-006662] Installed OS X configuration profiles that include a VPN payload with the **Use Hybrid Authentication** checkbox selected append “[hybrid]” to the group name in the VPN authentication settings on the computer, which causes group authentication to fail.

- [D-006758] iOS configuration profiles with a Single App Mode payload fail to require a passcode on supervised iOS 7 devices when the devices have a passcode and are locked.
- [D-006793] Computer-level OS X configuration profiles that define options for Time Machine backups fail to do so.
- [D-006979] When enrolling a computer using a QuickAdd package, the QuickAdd installer incorrectly prompts users for local administrator credentials twice if the **Restrict re-enrollment to authorized users only** checkbox is selected.
- [D-007004] iOS configuration profiles with a cookies restriction fail to set the specified restriction and hide other cookies restrictions on the device. The restrictions that are hidden depend on the restriction specified in the profile.
- [D-007163] Casper Focus sometimes incorrectly removes the focus from a student device if the Home button on the student device is pressed while the device is being focused.
- [D-007206] Attempting to install Self Service Mobile for iOS on an enrolled mobile device when the Self Service web clip is open causes the device to lock on the web clip. This prevents the user from accessing any other screens or content on the device.
- [D-007245] The configuration page fails to display correctly when enrolling a mobile device via PreStage enrollment.
- [D-007486] SMB shares sometimes fail to mount on a computer with OS X v10.9.
- [D-007511] If the option to skip the Restore page is selected for a PreStage enrollment in the JSS, the Restore page is not skipped during enrollment if the enrollment process is restarted during the Setup Assistant.
- [D-007537] Location Services are incorrectly disabled when the **Allow modifying Find My Friends settings (Supervised devices only)** checkbox is deselected in the Restrictions payload of an iOS configuration profile.
- [D-007628] iOS configuration profiles made available in Self Service cannot be removed manually from mobile devices with iOS 8 even when the profiles are configured to allow removal.  
Workaround: Remove the mobile device from the scope of the profile.
- [D-007638] An in-house eBook set to the **Install Automatically** distribution method will display as "Untitled" until it is opened on a mobile device.
- [D-007721] iOS configuration profiles with a Mail payload configured to log in to the app using a specified password fail to require a password after the configuration profile has been removed and redistributed to require a password on mobile devices with iOS 6.
- [D-007823] Policies configured to require users to enable FileVault 2 in a disk encryption payload fail to do so on a computer with OS X v10.10.
- [D-007825] OS X configuration profiles with a Software Update payload configured to allow installation of OS X beta releases fail to make OS X beta releases available to users.
- [D-007860] When the User value in the Exchange payload of an OS X configuration profile is an email address, an OS X Mail app user cannot authenticate and access their email on OS X v10.10 computers.
- [D-007898] If a PreStage enrollment is configured with the **Make MDM Profile Mandatory** checkbox selected and a user skips the Wi-Fi configuration step during the OS X Setup Assistant process, the computer will not be enrolled with the JSS.



- [D-007969] Compiled configurations created with Casper Admin using the `InstallESD.dmg` file for OS X v10.10 fail to create a "Recovery HD" partition when the configuration is used to image computers.
- [D-007999] Screen saver settings in a configuration profile that is removed and re-applied to a computer are not retained.
- [D-008018] The JSS cannot connect to an Open Directory server hosted on OS X Server v10.10 using CRAM-MD5 authentication.
- [D-008152] End users are incorrectly prompted for an Airplay password when attempting to Airplay to a device for which an AirPlay password has been specified using an OS X configuration profile.
- [D-008167] When multiple Casper Suite disk images are mounted, the JSS Installer installs the version of the Casper Suite included in the disk image that was mounted first.
- [D-008212] If a mobile device is enrolled using a PreStage enrollment and is then re-added to the server token file (.p7m), the device becomes unassigned and the JSS incorrectly displays the device as still being in the scope of the PreStage enrollment.
- [D-008286] When VMware Fusion is closed on a client computer, the computer loses its connection with the JSS.
- [D-008309] A guest user is able to log in from the FileVault 2 login window when a configuration profile was used to disallow guest users and FileVault 2 is configured for the current or next user.
- [D-008484] iOS configuration profiles with a large number of permitted URLs added to the Content Filter payload fail to upload to the JSS.
- [D-008567] When a student device with iOS 8 is focused on a website, multiple icons with the website link are displayed.
- [D-008603] OS X configuration profiles with a Restrictions payload disable the widgets in the OS X v10.10 Notification Center.
- [D-008623] The JSS sometimes fails to display the correct model for a computer.
- [D-008688] OS X configuration profiles that include a Network payload configured with 802.1X authentication and the Auto Join checkbox selected fail to automatically connect a computer to the network after the computer leaves sleep mode.
- [D-008806] The `dsconfigad` binary fails to bind a computer to a directory service if the service account password contains an exclamation point (!).
- [D-008905] An OS X configuration profile with a Passcode payload does not enforce the required alphanumeric value or the maximum number of failed attempts allowed for a computer with OS X v10.10 or later.
- [D-008912] The **User names and passwords** checkbox in the Safari AutoFill options cannot be deselected when the **Allow Safari AutoFill** option is selected in the Restrictions payload of an OS X configuration profile.
- [D-009091] When the Safari "Accept Cookies" pop-up menu is set to "Always" for an iOS configuration profile, the setting is not applied on mobile devices with iOS 8.3.
- [D-009110] Configuration profiles with the "Internal Disks: Allow" option disabled do not prevent the use of memory cards.
- [D-009443] Casper Focus fails to focus a student device with iOS 7 on the attention screen if the device was being focused on an app or website.

- [D-009450] An OS X configuration profile with a Password payload incorrectly enforces a number of complex characters equal to the last value used.