

# Deploying iOS Devices with the Casper Suite and Apple Configurator

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# Introduction

## Target Audience

This guide is designed for Casper Suite administrators who plan to use Apple Configurator to deploy iOS devices.

## Additional Resources

For more information on mobile device management with the Casper Suite, including enrollment, configuration, security management, and distribution, see the *Casper Suite Administrator's Guide*, available at:

<http://www.jamfsoftware.com/resources/documentation>

For more information on Apple Configurator, see the following Apple articles:

- Apple Configurator: Using Volume Purchase Program (VPP) Redemption Codes  
<http://support.apple.com/kb/HT5188>
- Apple Configurator Help  
<http://help.apple.com/configurator/mac/>

# Overview

This guide explains how to deploy iOS devices using the Casper Suite and Apple Configurator. This deployment method allows you to connect a device to a computer and enroll it with the JSS by installing profiles on the device using Apple Configurator. You can also set up Apple Configurator to install apps and restore a backup on the device as it is being enrolled. Once the device is enrolled, it can be managed remotely using the MDM features available in the Casper Suite.

# Requirements

To deploy iOS devices using the instructions in this guide, you need:

- The Casper Suite v8.51 or later
- Mobile devices running iOS 5 or later
- A computer with:
  - OS X v10.7.2 or later
  - iTunes 10.6 or later
  - Apple Configurator 1.0.1 or later

# Preparing for Enrollment

Before you can enroll devices with the JSS using Apple Configurator, you need to do the following:

1. (Optional) Create a device backup using Apple Configurator.
2. Create a Wi-Fi configuration profile using Apple Configurator.
3. Create and export an enrollment profile using the JSS.
4. Import the enrollment profile to Apple Configurator.
5. (Optional) Add apps to Apple Configurator.

## Step 1: (Optional) Create a Device Backup

Create a backup that can be restored on devices when you enroll them. This allows you to bypass the initial device setup process.

To create a device backup:

1. Open Apple Configurator.
2. Click **Prepare** in the toolbar, and then click the **Settings** tab.



3. Connect the device to a USB port on the computer.
4. If desired, enter a name for the devices.

5. If you do not want devices to be synced with iTunes on another computer or used with Apple Configurator on another computer, turn the **Supervision** switch on. This allows you to install profiles and apps on devices without touching them.

For more information on Supervision, see Apple's documentation at:

<http://help.apple.com/configurator/mac/1.0/#cadee170260>

**Warning:** When you prepare a device with Supervision turned on, Apple Configurator performs a software restore on the device.

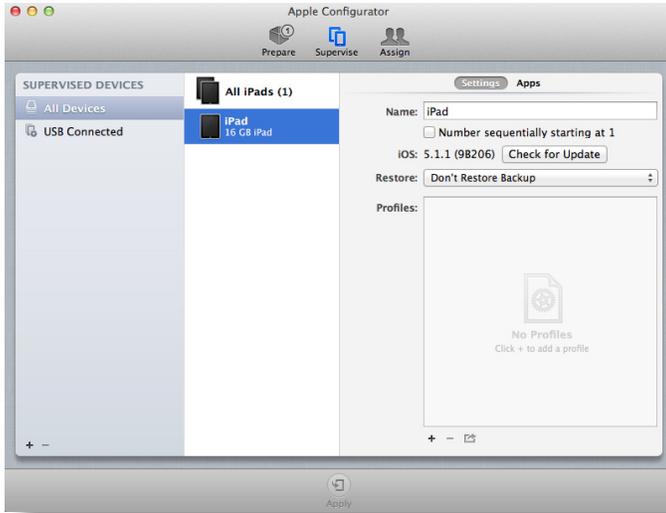


6. Click the **Prepare** button at the bottom of the window.
7. If prompted, click **Apply**.
8. When Apple Configurator finishes preparing the device, click the **Stop** button at the bottom of the window.

Do not disconnect the device.



9. On the device, use the Setup Assistant to complete the setup process, configuring settings as needed.
10. In Apple Configurator, click the **Supervise** tab and select the connected device in the list of devices.



11. From the menu bar, choose **Devices > Back Up**.

A backup named after the device is created. The backup is available from the **Restore** pop-up menu on the **Prepare** tab when Supervision is turned on. It is also available from the **Restore** pop-up menu on the **Supervise** tab.

## Step 2: Create a Wi-Fi Configuration Profile

To enroll devices with the JSS, they must have access to a wireless network connection. Use Apple Configurator to create a configuration profile with a Wi-Fi payload that you can install on devices when you enroll them.

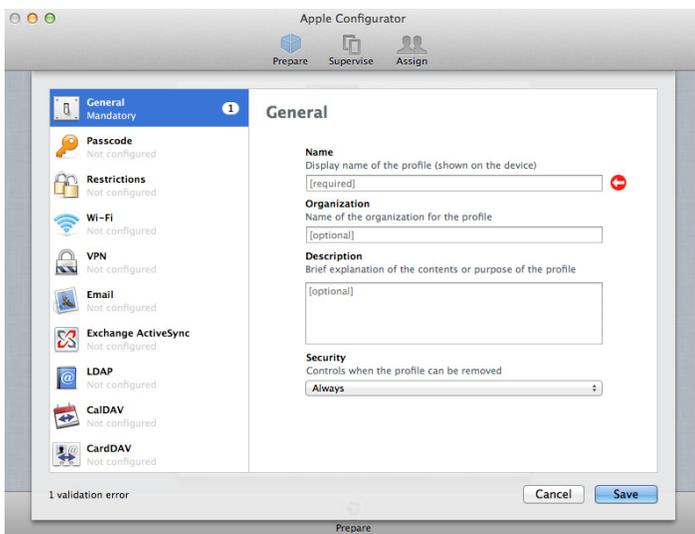
**To create a Wi-Fi configuration profile using Apple Configurator:**

1. Open Apple Configurator.

2. Click **Prepare** in the toolbar, and then click the **Settings** tab.



3. Click the **Add Profile (+)** button below the Profiles list and choose **Create New Profile**.
4. Enter a name for the profile.



5. In the payloads list, select the **Wi-Fi** payload and then click **Configure**.

6. Configure the payload as needed.

For detailed information about the settings in the Wi-Fi payload, see the following documentation from Apple:

<http://help.apple.com/configurator/mac/#cad812eacf>



7. Click **Save**.

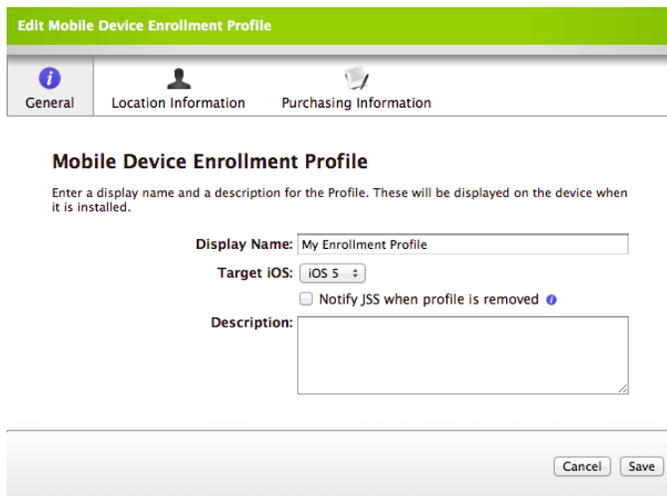
## Step 3: Create and Export an Enrollment Profile

Use the JSS to create an enrollment profile. Then export the profile so that you can import it to Apple Configurator in the next step.

**To create and export an enrollment profile using the JSS:**

1. Log in to the JSS with a web browser.
2. Click the **Management** tab.
3. Click the **Mobile Device Enrollment** link.
4. Click the **Create Enrollment Profile** button.

5. Enter a display name for the profile.  
The name that you enter is displayed in Apple Configurator. It is also used as the filename for the profile.
6. Choose a target iOS from the **Target iOS** pop-up menu.  
The target iOS must match the iOS on the devices that you plan to enroll.
7. Deselect the **Notify JSS when profile is removed** checkbox.



8. Enter a description for the profile.  
The description that you enter is displayed in Apple Configurator.
9. To populate location information for the devices that you plan to enroll, click the **Location Information** tab and enter information as needed.
10. To populate purchasing information for the devices that you plan to enroll, click the **Purchasing Information** tab and enter information as needed.
11. Click **Save**.
12. Export the enrollment profile by clicking the **Download** link across from it.



The profile is saved as a .mobileconfig file.

## Step 4: Import the Enrollment Profile to Apple Configurator

Import the enrollment profile to Apple Configurator so that you can install it on devices.

**Important:** To ensure that devices have access to a wireless network connection during enrollment, you must create the Wi-Fi configuration profile before importing the enrollment profile. See “Step 2: Create a Wi-Fi Configuration Profile” for complete instructions.

To import an enrollment profile to Apple Configurator:

1. Open Apple Configurator.
2. Click **Prepare** in the toolbar, and then click the **Settings** tab.



3. Click the **Add Profile (+)** button below the Profiles list and choose **Import Profile**.
4. Select the enrollment profile (.mobileconfig) and click **Open**.

## Step 5: (Optional) Add Apps to Apple Configurator

If you want to install apps as devices are enrolled, add the apps to Apple Configurator by following the instructions at:

<http://help.apple.com/configurator/mac/#cadf4ed4b2>

To install apps during enrollment, the apps must be free or you must have VPP redemption codes for them.

You can also use the Casper Suite to distribute apps over-the-air once the devices are enrolled. For more information, see “Apps” in the *Casper Suite Administrator's Guide*.

# Enrolling Devices

To enroll devices with the JSS using Apple Configurator, you need to set up Apple Configurator to install the Wi-Fi configuration profile, the enrollment profile, and any desired apps. Then you can connect one or more devices to the computer and install the specified components.

**To enroll devices with the JSS using Apple Configurator:**

1. Open Apple Configurator.
2. Click **Prepare** in the toolbar, and then click the **Settings** tab.



3. If desired, enter a name for the device in the **Name** field.  
If you are enrolling more than one device, select the **Number sequentially starting at 1** checkbox. Sequential numbers are appended to the device names.

4. If you do not want devices to be synced with iTunes on another computer or used with Apple Configurator on another computer, turn the **Supervision** switch on.

If you plan to restore a supervised backup on devices, Supervision must be turned on.

For more information on Supervision, see Apple's documentation at:

<http://help.apple.com/configurator/mac/1.0/#cadee170260>

**Warning:** When you prepare devices with Supervision turned on, Apple Configurator performs a software restore on the devices.



5. If you want to remove all existing data from the devices, select the **Erase before installing** checkbox.  
If Supervision is turned on, the **Erase before installing** checkbox is selected automatically.
6. If you want to restore a backup on devices, choose the backup from the **Restore** pop-up menu.
7. In the Profiles list, select the checkbox next to the Wi-Fi configuration profile that you want to install.
8. In the Profiles list, select the checkbox next to the enrollment profile that you want to install.
9. (Optional) If you want to install apps, click the **Apps** tab and select the checkbox next to each app that you want to install.
10. Click the **Prepare** button at the bottom of the window.
11. If prompted, click **Apply**.
12. Connect devices to the computer to install the specified components and apply the configured settings.

After Apple Configurator finishes preparing the devices, they are enrolled with the JSS.