jamf | PRO

tv

How to Add an AppleTV to
Apple Business Manager for
Automated Device Enrollment in Jamf Pro

Table of Contents

You can choose to add iOS, iPadOS, and tvOS devices to Apple School Manager or Apple Business Manager using Apple Configurator 2, even if the devices weren't purchased directly from Apple, an Apple Authorized Reseller, or an authorized cellular carrier. When you set up a device that has been manually enrolled, it behaves like any other enrolled device, with mandatory supervision and mobile device management (MDM) enrollment. For devices that weren't purchased directly, the user has a 30-day provisional period to remove the device from enrollment, supervision, and MDM. The 30-day provisional period begins after the device is activated.

Adding devices requires iOS 11 or later, and adding tvOS devices requires tvOS 11 or later. This guide uses an AppleTV (Gen 4) which has a USB-C port. AppleTV 4k does not have a USB-C port. If you're following this guide using an AppleTV 4k model, follow the support article to learn how to connect it to Apple Configurator 2 over the network. https://support.apple.com/en-us/HT208124

WARNING: The AppleTV will be reset to factory defaults if you follow this guide.

The following was used for this guide:
- Apple Configurator 2.12.1
- AppleTV (Gen 4) with a USB-C port
- Mac Computer with USB-C port
- USB-C to USB-C cable
- macOS Catalina 10.15.4
- Jamf Pro 10.20.1

Section 1: Configure the AppleTV

1. On the AppleTV, Configure the following:
    A. Plug the power cord in the AppleTV.
    B. Plug in a USB-C cable to the USB-C port on the AppleTV.
    C. Plug the AppleTV into a power outlet.

2. Plug the other end of the USB-C cable to the USB-C port on your Mac Computer.

3. On your Mac, open Apple Configurator 2.

Apple
Configurator 2

4. Click the File Menu, then choose New Profile.

File	Edit	Actions	Vi
New Profile		⌘N	

5. Select the General payload.
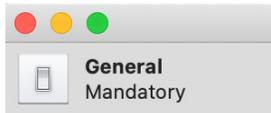
General
Mandatory

6. Configure the following:
    A. Name
    B. Organization
    C. Description
    D. Automatically Remove Profile: After Interval 0 days 1 hour

General

Name
Display name of the profile - will be shown on the device

Wi-Fi   A

Identifier
Unique profile identifier - installing the profile on devices will
replace any installed profiles with the same identifier

Keith-MBA.8F1677FB-A01C-4E49-80D6-6D742561CC24

Organization
Name of the organization which created the profile

HCS   B

Description
Brief explanation of the contents or purpose of the profile

Wi-Fi Profile   C

Consent Message
A message that will be displayed during profile installation

[optional]

Security
Controls when the profile can be removed

Always

Automatically Remove Profile
Settings for automatic profile removal

After interval   0   days   1   hours   D

7. Select the Wi-Fi payload.

Wi-Fi
Not configured

8. In the right side of the window, Click Configure.

Wi-Fi

Use this section to configure how the device connects to
your wireless network, including the necessary
authentication information.

Configure

9. Enter your Wi-Fi information.

Wi-Fi

Service Set Identifier (SSID)
Identification of the wireless network to connect to

HCS

☐ **Hidden Network**
Enable if target network is not open or broadcasting

☑ **Auto Join**
Automatically join this wireless network

☐ **Disable Captive Network Detection**
Do not show the captive network assistant

Proxy Setup
Configures proxies to be used with this network

None ⬍

Security Type
Wireless network encryption to use when connecting

WPA / WPA2 Personal ⬍

Password
Password for the wireless network

••••••••

Network Type
Configures network to appear as legacy or Passpoint hotspot

Standard ⬍

Fast Lane QoS Marking

Do not restrict QoS marking ⬍

10. Click the File Menu, then choose Save.
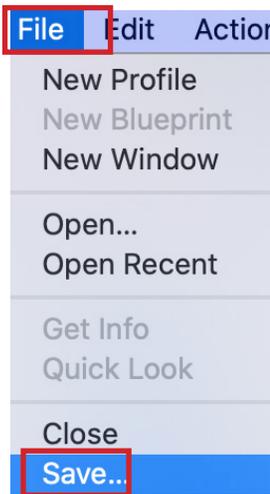
11. In the "Save As" field, enter an appropriate name. Leave the default filename suffix as .mobileconfig.
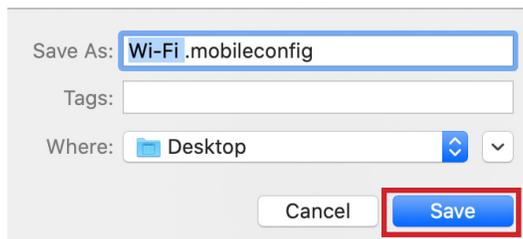
12. Optional: Click the Where menu and change the location to save the file. This guide uses your desktop as an example.

13. Click Save.

14. In the upper left corner, click the red button to close the Profile window.

15. In the toolbar, click Prepare.
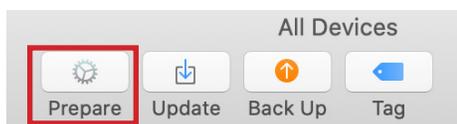
16. Configure the following:
      A. Prepare with: Manual Configuration
      B. Add to Device Enrollment Program: [Select this option]
      C. Activate and complete enrollment: [Deselect this option]
      D. Allow devices to pair with other computers: [Select this option]
      E. Enable Shared iPad: [Deselect this option]
      F. Click Next

Prepare Devices

Preparing devices is the first step in any deployment. You need to prepare devices before you distribute them to users.

Prepare with: Manual Configuration   **A**

      ☑ Add to Device Enrollment Program   **B**
        ☐ Activate and complete enrollment   **C**
      ☑ Supervise devices
        ☑ Allow devices to pair with other computers   **D**
      ☐ Enable Shared iPad   **E**

Cancel   Previous   Next   **F**

17. Configure the following:
      A. Choose New Server
      B. Click Next

Enroll in MDM Server

Choose an MDM server to manage the devices remotely over the air, if desired.

Server: New Server...   **A**

?

Cancel   Previous   Next   **B**

18. Configure the following:
    A. Provide a Name of your choosing. The Name you enter is not important, and will not be displayed for anyone other than you.
    B. Click Next

Define an MDM Server

Enter a name and the enrollment URL for this server. If you don't know it, enter the server's host name or IP address, and Configurator will attempt to discover it.

Name: AppleTV   **A**

Host name or URL: https://myserver.local/devicemanagement/mdm/dep_md

?

Cancel   Previous   **Next**   **B**

19. At the error message below, Click Next.

Define an MDM Server

⚠️ **Unable to verify the server's enrollment URL.**

The request timed out.

Cancel   Previous   **Next**

20. Click Next.

Define an MDM Server

Add trust anchor certificates for the MDM server.

+ —

Cancel   Previous   **Next**

21. Configure the following:
    A. Enter the Managed Apple ID that is an administrator for Apple Business Manager.
    B. Click Next.

Sign in to the Device Enrollment Program

Apple ID   yourid.@apple.com   **A**

Next   **B**

Create new Apple ID

Forgot Apple ID or password?

Cancel   Previous   Skip
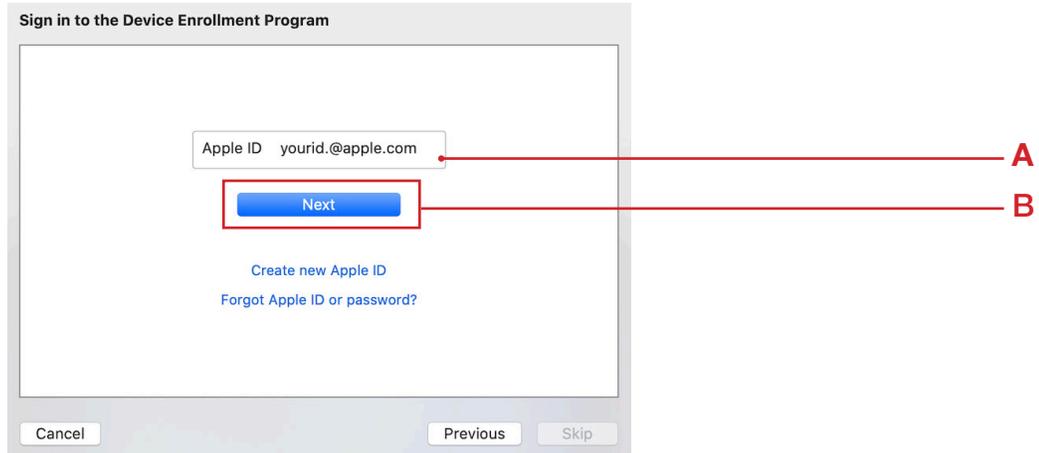
22. Configure the following:
    A. Enter the password for your Managed Apple ID.
    B. Click Next.

Sign in to the Device Enrollment Program

Apple ID   keith@keithmichaelmu

Password   ●●●●●●●●●●●   **A**

Next   **B**

Create new Apple ID

Forgot Apple ID or password?

Cancel   Previous   Skip
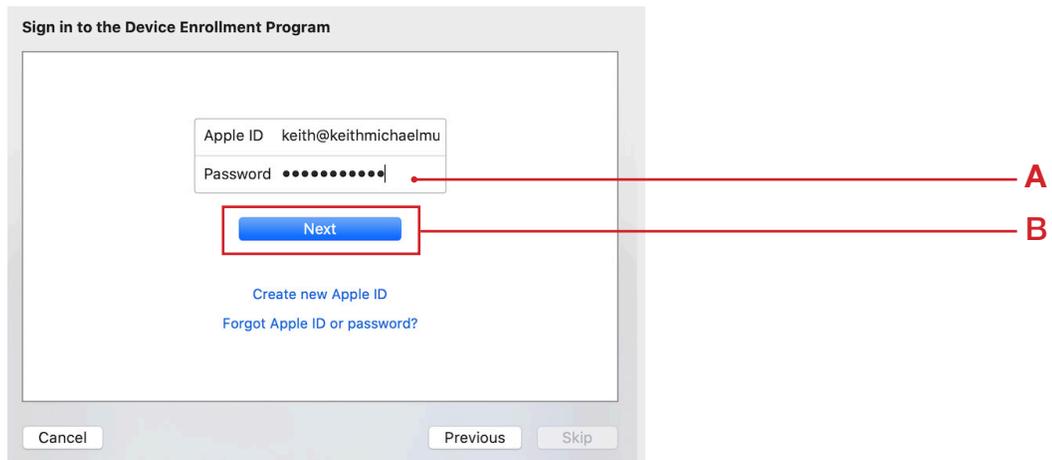
23. If you're prompted to provide a verification code, enter the code you receive from Apple then click Continue.

Enter the verification code sent to (•••) •••-••11.

Didn't get a verification code?

Cancel   Continue
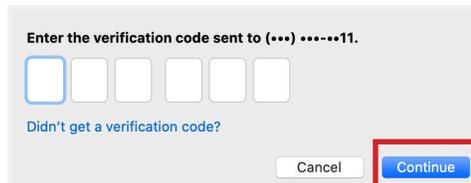
24. If you're prompted for access to your contacts, make a selection of your choosing.

"Apple Configurator 2" would like to access your contacts.

?   Don't Allow   OK
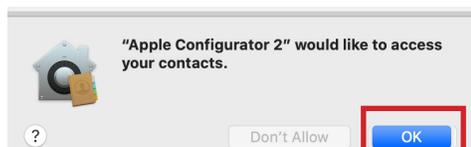
25. Select Generate a new supervision identity, then click Next.

Create an Organization

Generate or choose a supervision identity.

⊙ Generate a new supervision identity
○ Choose an existing supervision identity

?

Cancel   Previous   Next

26. Choose "Don't show any of these steps," then click Next.

Configure tvOS Setup Assistant

Choose which steps will be presented to the user in Setup Assistant.

Setup Assistant: Don't show any of these steps ⬍

☑ Language
☑ Region
☐ Privacy
☐ Siri and Dictation
☐ Apple ID
☐ Sync TV Home Screen Layout
☐ Set Up Your Apple TV
☐ Sign In to Your TV Provider
☐ Where is this Apple TV
☐ Location Services
☐ See the World
☐ App Analytics

?

Cancel   Previous   Next

27. Confirm that the window displays your Wi-Fi profile then click Prepare.
     NOTE: This will reset the AppleTV to factory defaults.

Choose Network Profile

The device will communicate with the Device Enrollment Program and the MDM server to complete enrollment. If needed, choose a configuration profile containing your Wi-Fi network settings.

Profile: ⊙   Wi-Fi.mobileconfig   ⊗   Choose...

?

Cancel   Previous   Prepare

28. Enter your administrator credentials then click Update Settings.

You are making changes to your Certificate Trust Settings.
Enter your password to allow this.

User Name:

Password:

Cancel   **Update Settings**
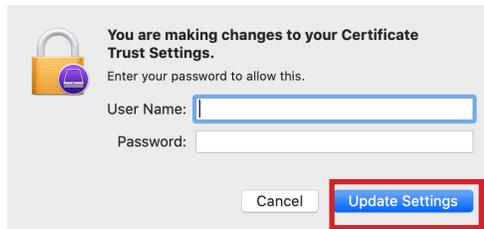
29. Confirm that Apple Configurator starts preparing the AppleTV.

Preparing "Apple TV"
Step 2 of 3: Downloading activation record for device

Cancel
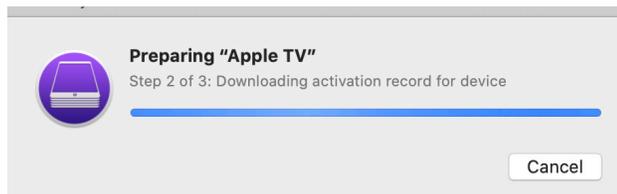
30. When Apple Configurator completes the configuration, it displays the following image. Double-click the Pair Your Remote image.

Pair Your Remote
Click the Touch surface to get started.

31. In the sidebar, select Info.

32. Select the Serial Number of the AppleTV, then press Command-C to copy the serial number. You'll need it for a later step.

Apple TV

Back View   Add Blueprints   Prepare Update Back Up Tag   Help   Q Search

Info
Apps
Profiles
Console

Apple TV

About

Model   Apple TV (4th generation)
Capacity   32 GB
State   Booted

Tech Info

tvOS Version   13.4 (17L256)
Serial Number C07Vi
ECID
Device ID
Wi-Fi Address
Ethernet Address
Bluetooth Address
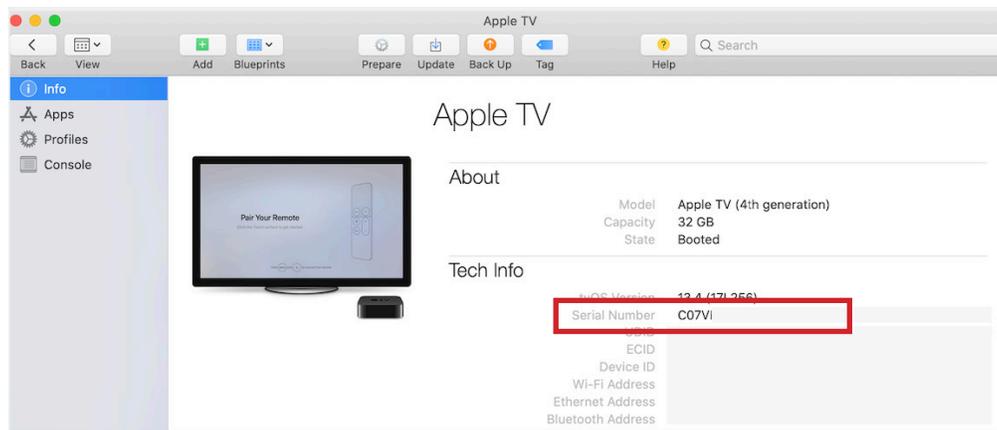
33. Quit Apple Configurator.

Section 2: Configure the AppleTV in Apple Business Manager

1. Log in to your Apple Business Manager or Apple School Manager account at **https://business.apple.com or https://school.apple.com.**

2. Select Device Assignments.
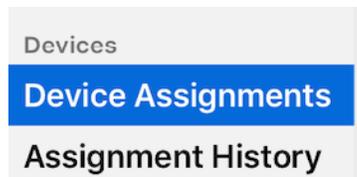
3. In the upper right corner, click Search Devices.
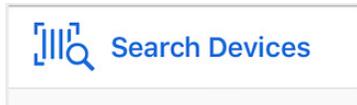
4. Click the "Enter serial number to find a device" field, then press Command-V to enter the serial number of the AppleTV you just added.

5. Click Search.
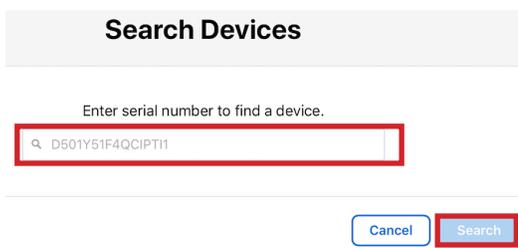
6. If necessary, click the MDM Server menu and choose your MDM server.

7. Click Done.

Search Devices

C07▓▓▓▓▓▓▓▓▓▓

Order Number
CE▓▓▓▓▓▓▓▓▓▓▓▓

MDM Server
▓ Jamf Cloud   **6**

Date Assigned
April 15, 2020 at 5:17 PM

Release Devices

Back   **Done**   **7**

8. Confirm that the AppleTV was successfully assigned to your MDM server.

Device Assigned

✓ **1**
Completed   The device was successfully assigned.

View in Activity   Done

9. Click Done.

10. Select Apps and Books.

Content

Apps and Books
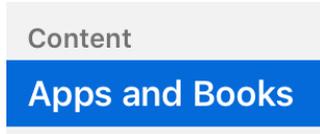
11. Configure the following:
    A. Click the blue filter button.
    B. Set the Type to Apple TV.
    C. In the search field, enter Hulu.

C   🔍 Hulu   ✕   ☰   A

Type   is   Apple TV   ⊖ ⊕

B

12. Select Hulu.

Hulu: Stream TV s...
Hulu, LLC · iOS and t...
★★★★★ $0.00
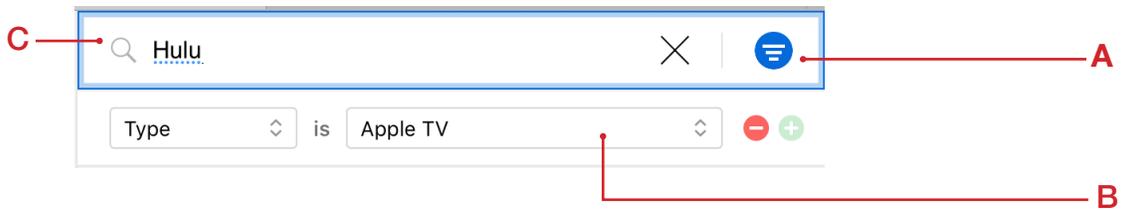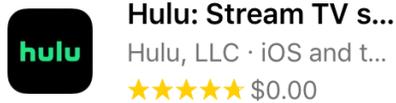
13. Configure the following:
    A. Click the "Assign to" menu and choose your organization.
    B. Enter a quantity. This guide uses 10 as an example.
    C. Click Get.

Hulu: Stream TV shows ...
Hulu, LLC · iOS and tvOS
✓ Device Assignable
View Details ↗

Buy Licenses

Assign to

Keith Michael Music, LLC   A

Price	Quantity	Payment Method
$0.00	10	None

     B

Total Cost **$0.00**   Get   C
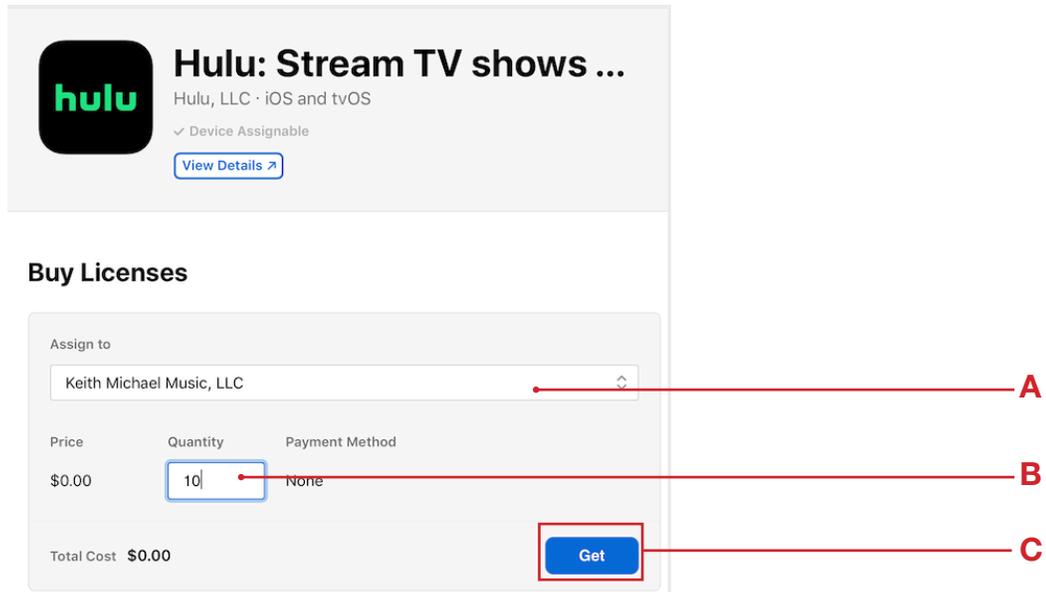
14. Log out of Apple Business Manager.

Section 3: Configure the AppleTV in Jamf Pro

1. Open a web browser of your choosing.

2. Log in to Jamf Pro.

3. Select Devices.
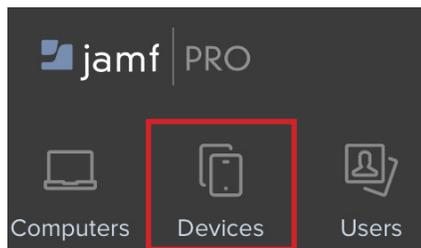
4. Select PreStage Enrollments.
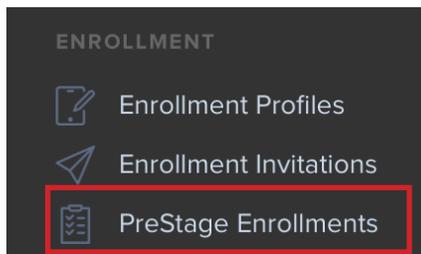
5. Click New.
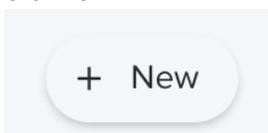
6. Select General.
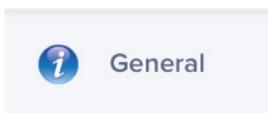
7. Configure the settings for the General payload with the following:
   A. Display Name: Enter a name of your choosing.
   B. Automated Device Enrollment Instance: Choose your instance.
   C. Supervise Devices with iOS 12.x or earlier: [Select this option]
   D. Make MDM Profile Mandatory for devices with iOS 12.x or earlier: [Select this option]
   E. Pairing: [Select this option]
   F. Prevent Unenrollment: [Select this option]
   G. Auto Advance through Setup Assistant (tvOS only): [Select this option]

8. Continued from Step 7.
        H. IOS And TvOS: [Select all options]

IOS And TvOS

- ☑ Location Services
- ☑ Siri
- ☑ Apple ID and iCloud
- ☑ Terms and Conditions
- ☑ App Analytics
- ☑ Privacy

9. TvOS Only:
        A. Set Up Your Apple TV: [Select this option]
        B. See the World Screensaver: [Select this option]
        C. One Home Screen for Every Apple TV: [Select this option]

TvOS Only

- ☑ Set Up Your Apple TV
- ☑ See the World Screensaver
- ☑ One Home Screen for Every Apple TV
- ☐ Sign In to Your TV Provider
- ☐ Where is this Apple TV?

10. Select Scope.

Options   **Scope**

11. Select the checkbox for your Apple TV.

12. Click Save.
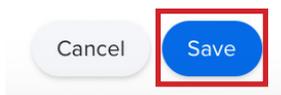
13. Click Done (looks like a left arrow).
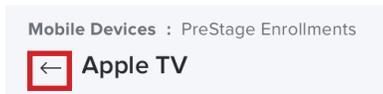
14. In the sidebar, select Smart Device Groups.
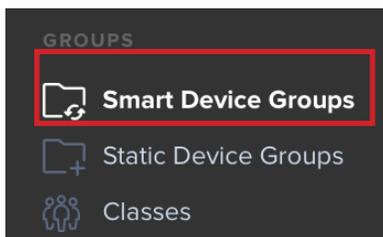
15. Click New.
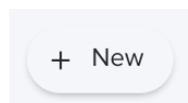
16. Enter a Display Name of your choosing.

Mobile Device Group	Criteria	Automated Management

Display Name Display name for the smart mobile device group

Managed Apple TV

☐ Send email notification on membership change
When group membership changes, send an email notification to Jamf Pro users

17. Select Criteria.

18. Click Add.

+ Add
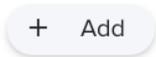
19. Select Model Identifier.

Model Identifier

20. Click Choose.

Choose
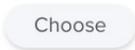
21. Configure the following:
     A. Set Operator to: "like"
     B. Set Value to: AppleTV

CRITERIA	OPERATOR	VALUE
Model Identifier	like ▾	AppleTV
	A	**B**

22. Click Save.

Cancel   Save

23. Click Done (looks like a left arrow).

Mobile Devices : Smart Device Groups
← **Managed Apple TV**
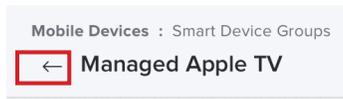
24. In the sidebar, select Mobile Device Apps.

CONTENT MANAGEMENT

Configuration Profiles

Provisioning Profiles

Personal Device Profiles

Mobile Device Apps

eBooks

25. Select the Hulu app.

Hulu: Stream TV shows & movies   6.14   App Store   License   25

26. Configure the app with the following settings:
       A. Select General.
       B. Optional: [Choose a category.]
       C. Distribution Method: "Install Automatically/Prompt Users to Install."

A — General   Scope   Managed Distribution   App Configuration

Display Name   Display name for the app

Hulu: Stream TV shows & movies

☑ Enabled

Category   Category to add the app to

AppleTV Apps ▾   **B**

Short Version   Short Version of the app

6.14

Bundle Identifier   Bundle identifier for the app

com.hulu.plus

☑ Free
    App is free

Distribution Method   Method to use for distributing the app

Install Automatically/Prompt Users to Install ▾   **C**

27. Configure the app with the following settings:
      A. Select Scope.
      B. Select Targets.
      C. Choose Specific Mobile Devices.

A ────────────

General   **Scope**   Managed Distribution   App Configuration

Targets ──────────────── **B**

Target Mobile Devices
Mobile devices to distribute the app to. Does not apply to personally owned devices

Specific Mobile Devices ▼ ──────────────── **C**

28. Click Add.

＋ Add

29. Select Mobile Device Groups.

Add Deployment Targets

Mobile Devices | Mobile Device Groups

🔍 Filter Re   1 - 5 of **5**

GROUP NAME

All Managed iPads

All Managed iPhones

All Managed iPod touches

IT iPads - Wallpaper

Managed Apple TV
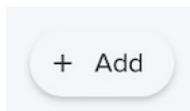
30. Next to the Managed Apple TV group, click Add.

Add
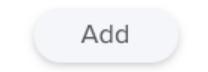
31. Click Save.

32. Click Done (looks like a left arrow).
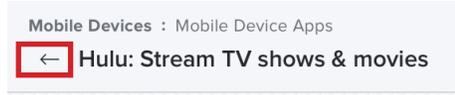
33. Select Managed Distribution.

34. Configure the Managed Distribution section with the following settings:
    A. Assign Content Purchased in Volume: [Select this option]
    B. Location: [Select your location for Volume purchasing]
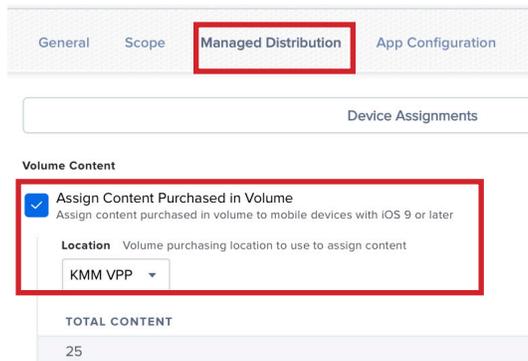
35. Click Save.
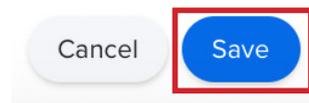
36. Click Done (looks like a left arrow).
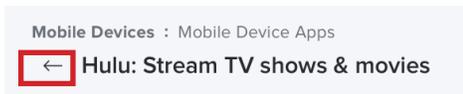
Section 4: Automated Enrollment of AppleTV in Jamf Pro

1. Log out of Jamf Pro.

2. Connect your AppleTV to a television or monitor that supports HDMI.

3. Connect an ethernet cable to the AppleTV.

4. At the Pair Your Remote screen, press the trackpad on the remote.

NOTE: If you don't press the trackpad on the remote after 30 seconds, the automated enrollment process will continue without pairing the remote. To pair the remote later, follow the instructions here **https://support.apple.com/en-us/HT203777**
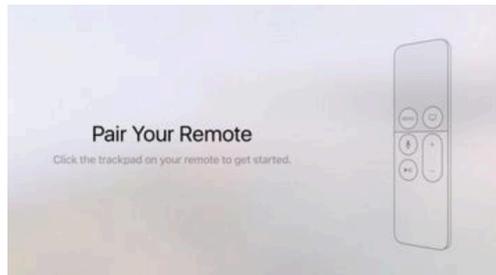
5. Confirm that your Apple TV quickly advances through the other setup screens, and that you are not prompted to perform any additional configuration.

6. Confirm that your Apple TV displays the home screen.

7. Confirm that your Apple TV automatically downloads and displays the additional app (this guide uses Hulu as an example). It may take a few minutes for your Apple TV to download and display the new app.
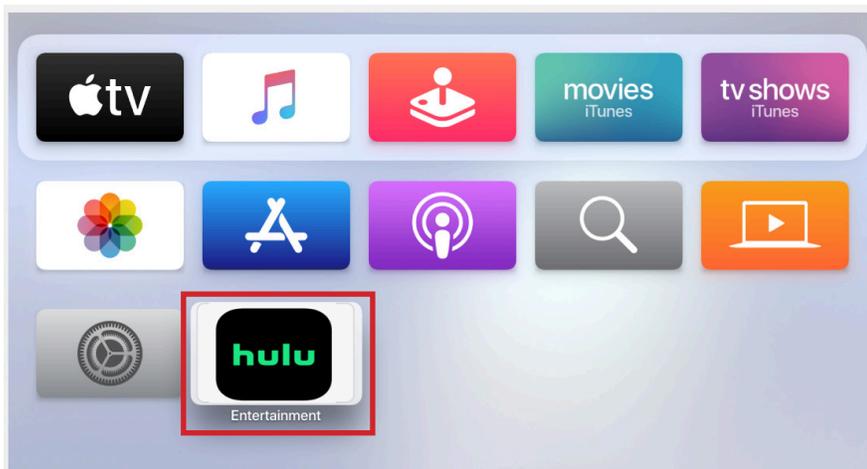
This completes the guide. If you'd like help implementing the solution in this white paper, we are ready to help; contact us at info@hcsonline.com or (866) 518-9672.

If you have corrections please send them to info@hcsonline.com.

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