



CAROUSEL DIGITAL SIGNAGE POWERED BY JAMF PRO

Integrated Product Setup Guide
for Jamf Pro 10 and newer



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Carousel Digital Signage and Jamf Pro

Carousel is an enterprise digital signage CMS allowing users to create and manage content on their screens. Carousel pushes content to Apple TV media players to display this content. Carousel Player or Carousel Cloud Player App must be installed on each Apple TV displaying content. This is where Jamf comes in! With Jamf you can easily install and configure the Carousel Player App on all of your Apple TV devices.

Prerequisites

This documentation assumes you have Jamf Pro 10.7 or higher, an Apple Volume Purchasing Program (such as Apple Business Manager, or Apple School Manager) account and devices available in Automated MDM Enrollment. You will also need Carousel 7.1 or higher or Carousel Cloud.

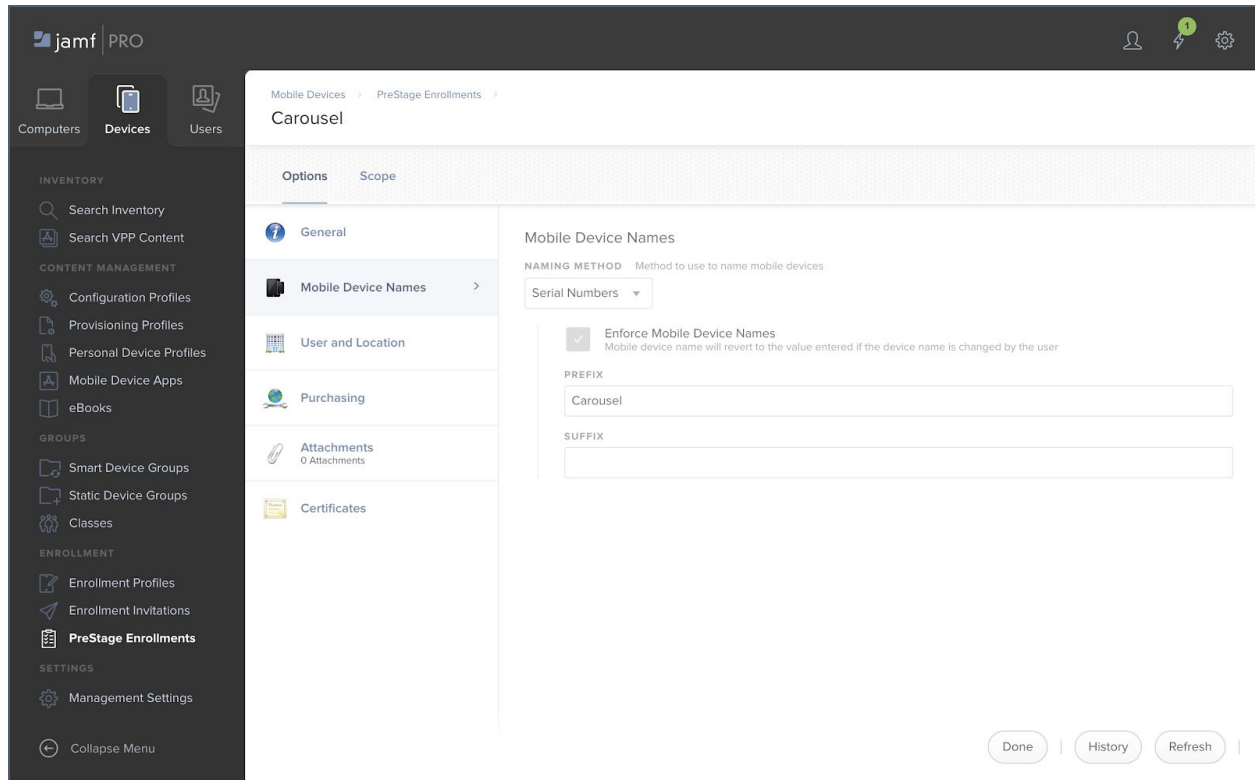
It is recommended your Apple TVs are running tvOS 12. This makes future updates to tvOS easier.

Configure PreStage Enrollment

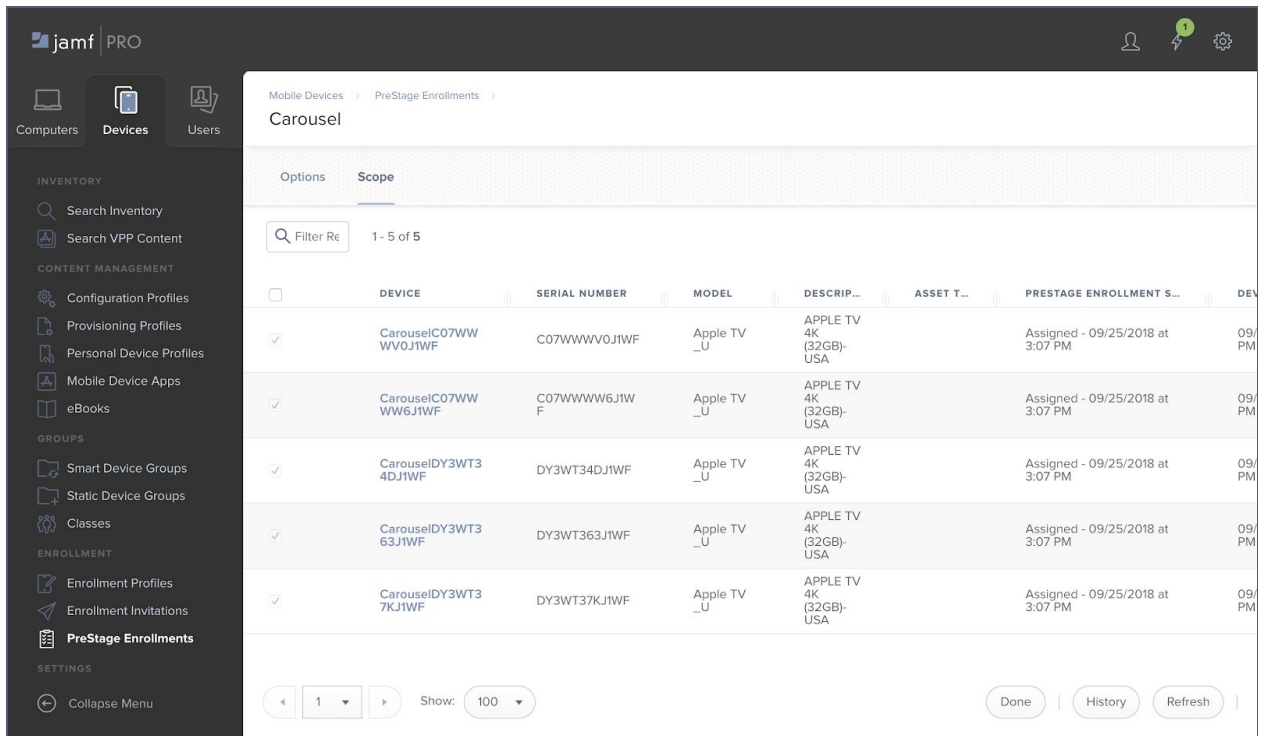
The first step is to sign into your Jamf Pro instance. Go to 'Devices' and then to 'PreStage Enrollments'.

Create a new PreStage Enrollment. Set the PreStage Enrollment 'Display Name' to "Carousel". Then go to the 'Mobile Device Names' tab and set a naming method. Best practice is to use 'Serial Numbers' with the prefix of Carousel or Carousel Cloud.

carousel



Next scope the new PreStage Enrollment to the Apple TVs you would like to use as Players using the 'Scope' tab to select available devices.

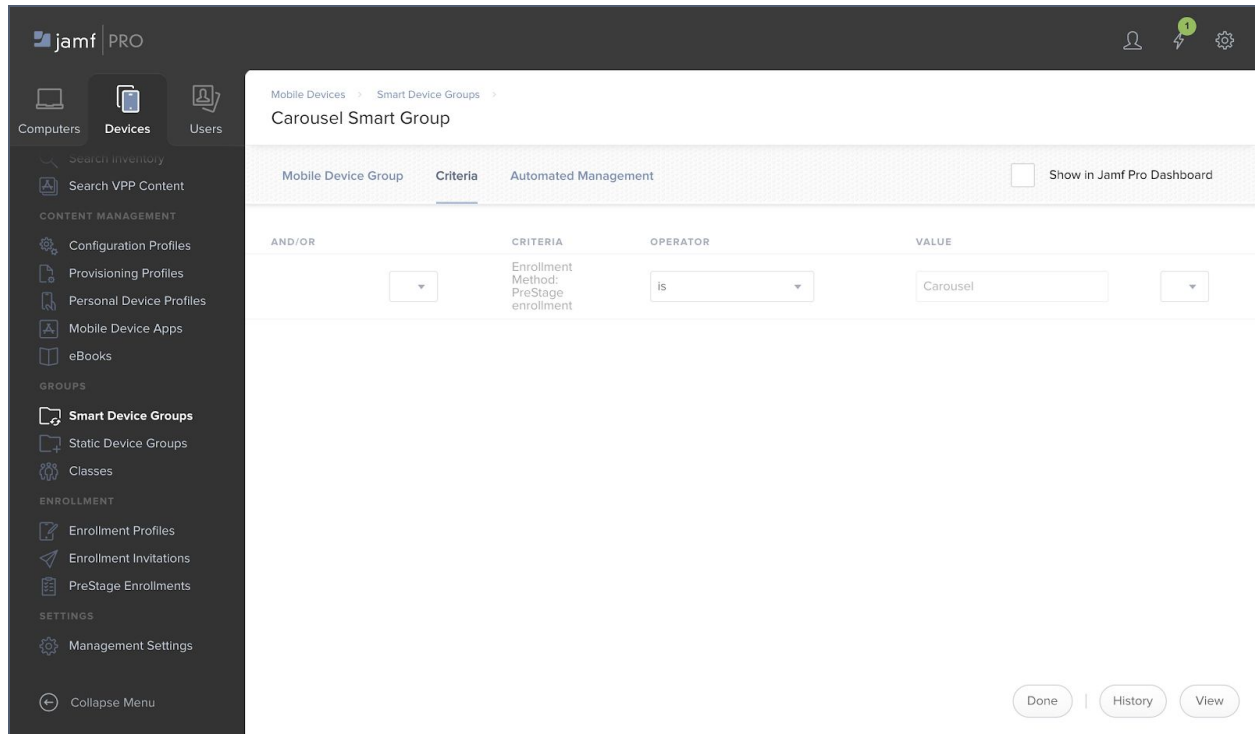


Options	Scope					
Filter Re	1 - 5 of 5					
DEVICE	SERIAL NUMBER	MODEL	DESCRIP...	ASSET T...	PRESTAGE ENROLLMENT S...	DEV
☒	CarouselC07WWVW0J1WF	C07WWWWV0J1WF	Apple TV _U	APPLE TV 4K (32GB)-USA	Assigned - 09/25/2018 at 3:07 PM	09/ PM
☒	CarouselC07WWVW6J1WF	C07WWWWV6J1WF	Apple TV _U	APPLE TV 4K (32GB)-USA	Assigned - 09/25/2018 at 3:07 PM	09/ PM
☒	CarouselDY3WT34DJ1WF	DY3WT34DJ1WF	Apple TV _U	APPLE TV 4K (32GB)-USA	Assigned - 09/25/2018 at 3:07 PM	09/ PM
☒	CarouselDY3WT363J1WF	DY3WT363J1WF	Apple TV _U	APPLE TV 4K (32GB)-USA	Assigned - 09/25/2018 at 3:07 PM	09/ PM
☒	CarouselDY3WT37KJ1WF	DY3WT37KJ1WF	Apple TV _U	APPLE TV 4K (32GB)-USA	Assigned - 09/25/2018 at 3:07 PM	09/ PM

1 Show: 100 Done History Refresh

Smart Device Group

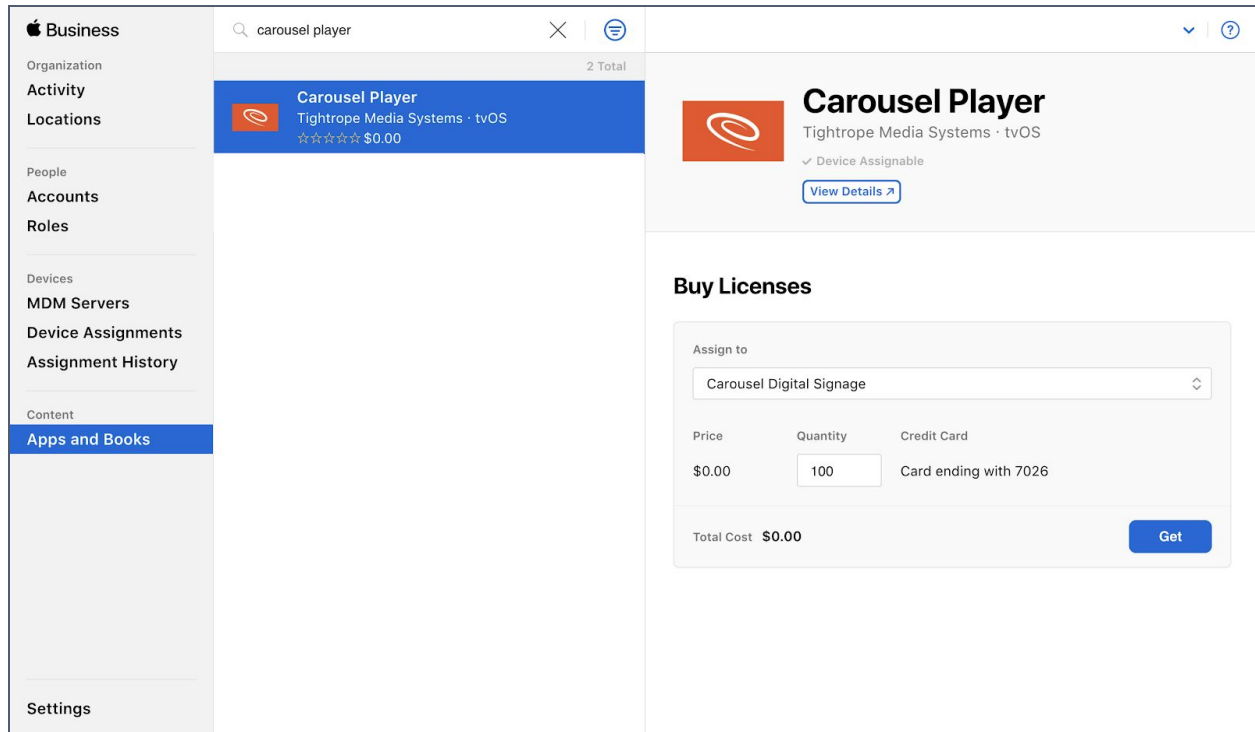
Click on 'Smart Device Groups' under the 'Groups' heading in the sidebar. Set the 'Display Name' to "Carousel Smart Group". Go to the 'Criteria' tab to add 'Enrollment Method: PreStage enrollment'. Set the 'Value' to the name of the PreStage Enrollment and 'Save'.



Purchase the App for Deployment

Open a new tab and open the appropriate App Store:

- Apple Business Manager - <https://business.apple.com/>
- Apple School Manager - <https://school.apple.com/>
- Legacy Volume Purchase Program Stores
 - Legacy Business Volume Purchase Program - <https://vpp.itunes.apple.com/us/app/carousel-player/id1244188551?mt=8>
 - Legacy Education Volume Purchase Program - <https://volume.itunes.apple.com/us/app/carousel-player/id1244188551?mt=8>



For Legacy Volume Purchase Program Stores use the direct links above to find the app (Apple does not show results for tvOS apps). For Business or School Manager, go to the 'Apps and Books' link under 'Content' in the sidebar. Then search for Carousel Player or Carousel Cloud Player.

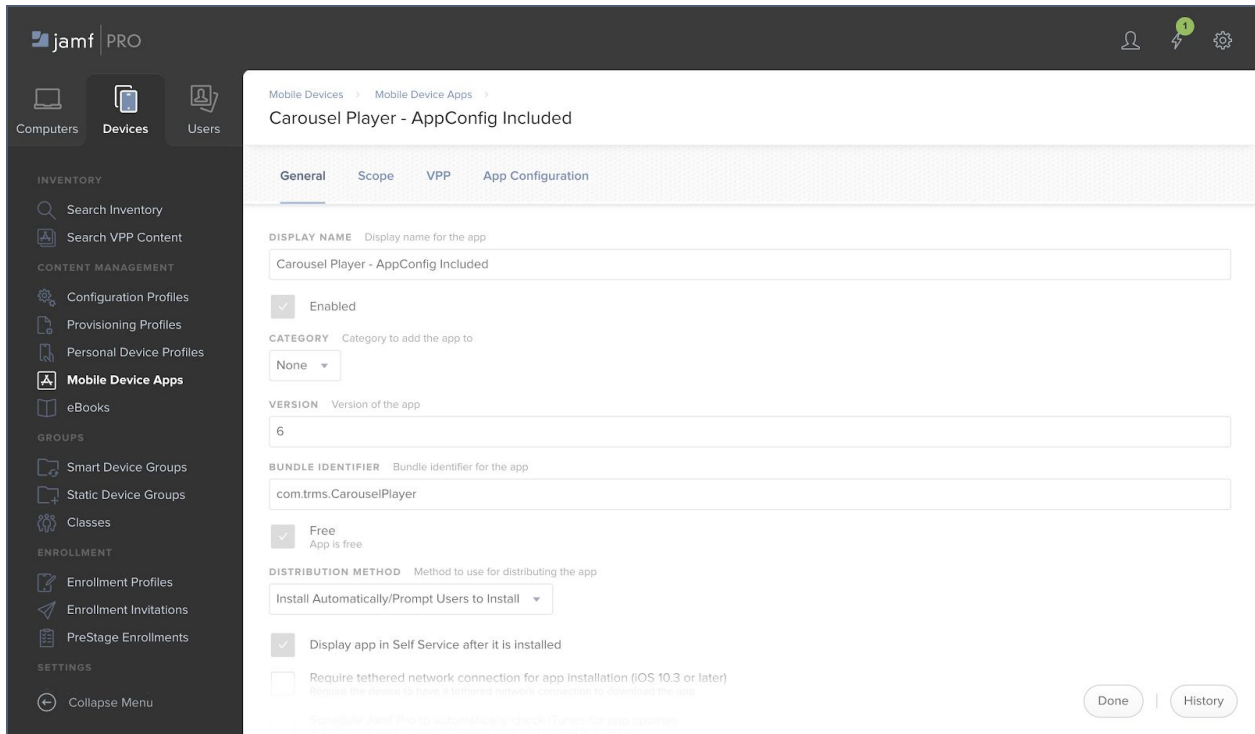
Best practice for purchasing is to acquire 110% coverage for your system. If you are planning to have 50 Apple TV players, purchase 55 licenses.

Configure Mobile Device App

Return to Jamf Pro and go to 'Mobile Device Apps'. After processing it will appear in the list of available apps.

General tab

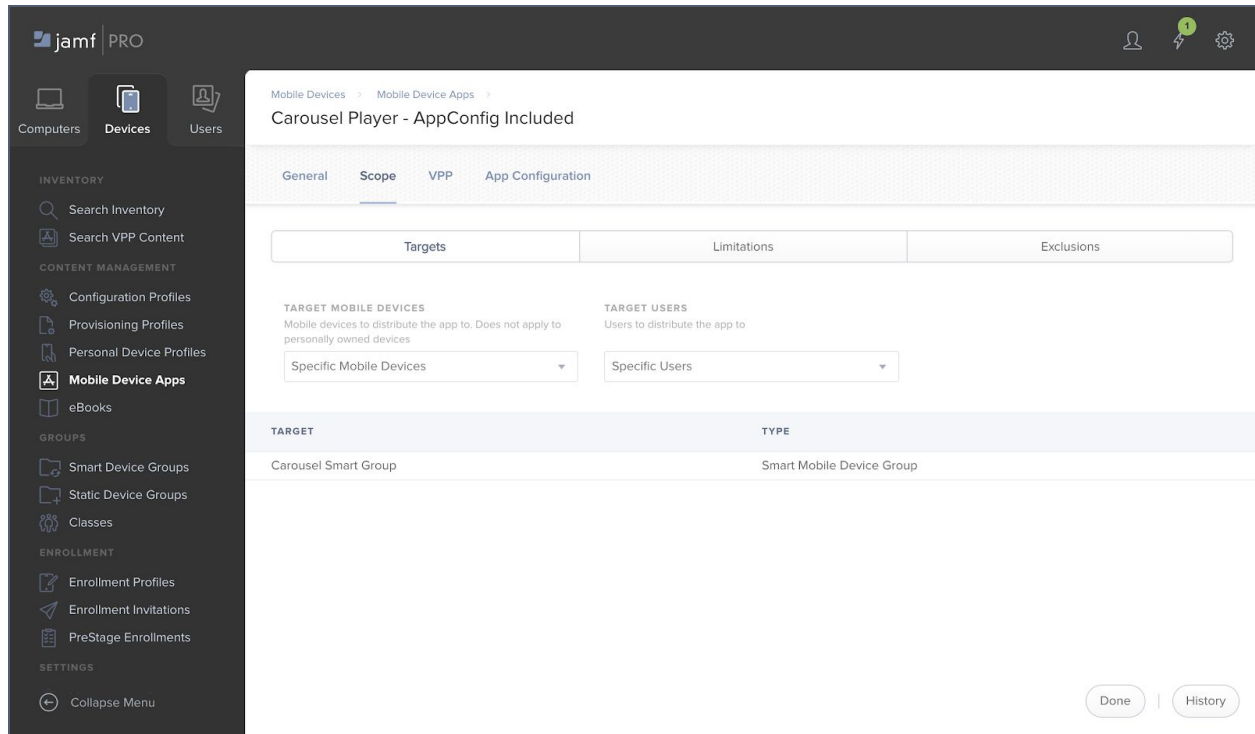
Set a 'Display Name' for the app or choose to leave the default. Change the 'Distribution Method' to 'Install Automatically/Prompt Users to Install'. Choose 'Schedule Jamf Pro to automatically check iTunes for app updates' or 'Automatically Force App Updates' or leave them disabled to manually update when you choose.



The screenshot shows the Jamf Pro web interface. On the left is a dark sidebar with navigation options: Computers, Devices (selected), and Users. Below these are sections for INVENTORY, CONTENT MANAGEMENT, GROUPS, ENROLLMENT, and SETTINGS. The main content area is titled 'Mobile Devices > Mobile Device Apps > Carousel Player - AppConfig Included'. It features four tabs: General, Scope, VPP, and App Configuration (which is active). The 'App Configuration' tab contains several settings: 'DISPLAY NAME' (Carousel Player - AppConfig Included), 'Enabled' (checked), 'CATEGORY' (None), 'VERSION' (6), 'BUNDLE IDENTIFIER' (com.trms.CarouselPlayer), 'Free' (checked), 'DISTRIBUTION METHOD' (Install Automatically/Prompt Users to Install), 'Display app in Self Service after it is installed' (checked), and 'Require tethered network connection for app installation (iOS 10.3 or later)' (unchecked). At the bottom right are 'Done' and 'History' buttons.

Scope tab

Under Targets, click 'Add', then choose 'Mobile Device Groups' and then click 'Add' next to the 'Carousel Smart Group'.



VPP tab

Enable the 'Assign VPP Content' checkbox.

App Configuration tab

Carousel Player - For on-premise Carousel 7 installations

Enter the following in the 'Preferences' text box:

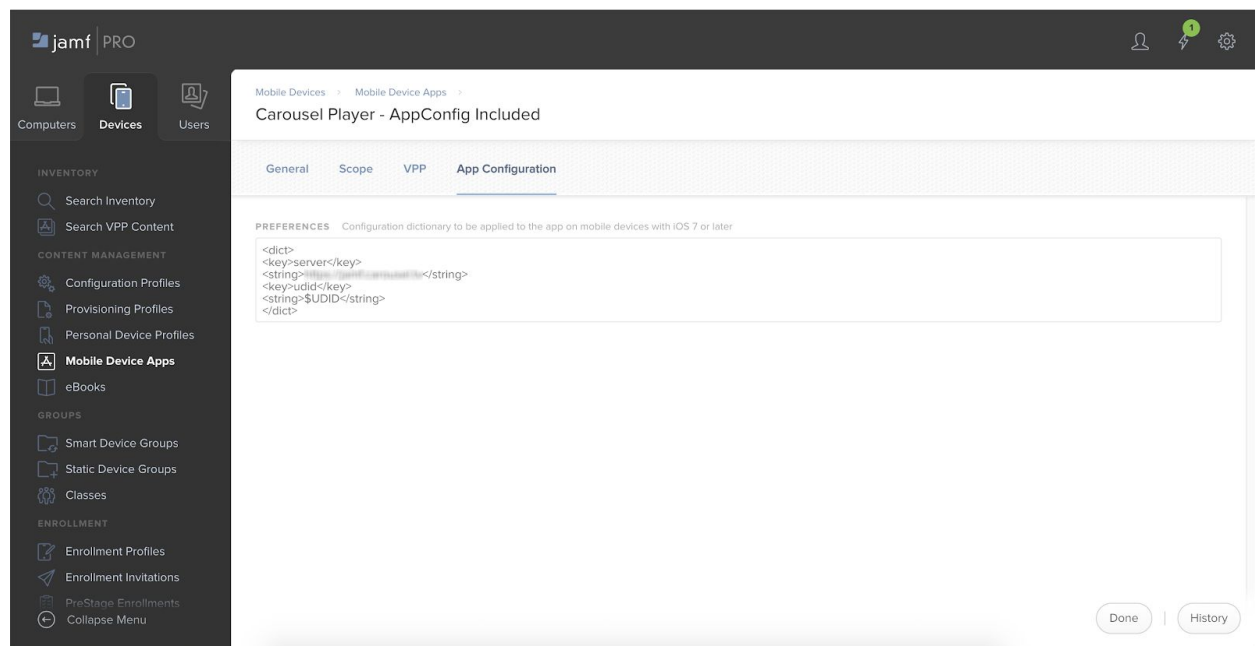
```
<dict>
  <key>server</key>
  <string>https://YOURSERVER.com</string>
  <key>udid</key>
  <string>$UDID</string>
</dict>
```

Replacing the <string> element with the address of your Carousel Server

Carousel Cloud Player - For Carousel Cloud users

In the Carousel user interface, go to Configure -> Players -> Player Setup. Copy and paste the 'MDM Player Registration Information' from Carousel into Jamf. It will look something like this:

```
<dict>
  <key>server</key>
  <string>https://YOURSERVER.com</string>
  <key>udid</key>
  <string>$UDID</string>
  <key>key</key>
  <string>a2a7d41d-e3a5-470a-b587-7a633bd51de7</string>
</dict>
```

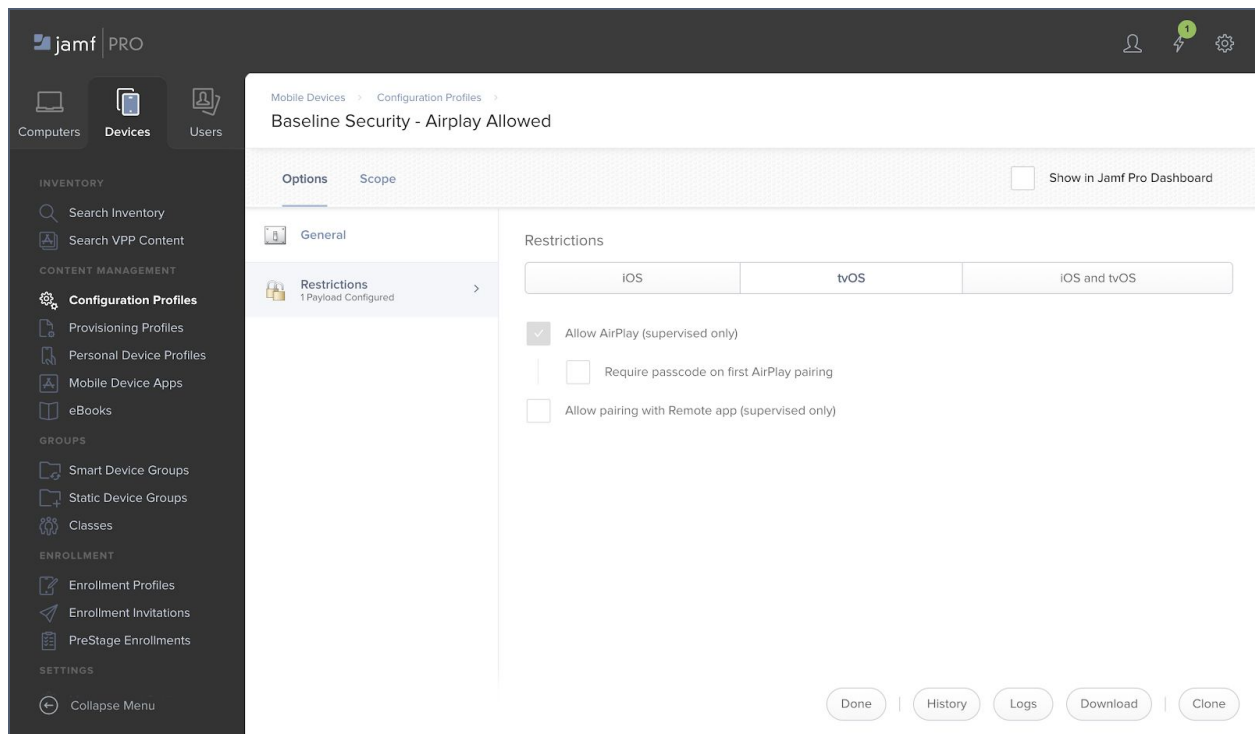


Click 'Save'

Create Configuration Profiles

Baseline Security

We recommend creating a baseline security configuration profile restricting AirPlay on the Apple TV along with any other restrictions you would like to apply.



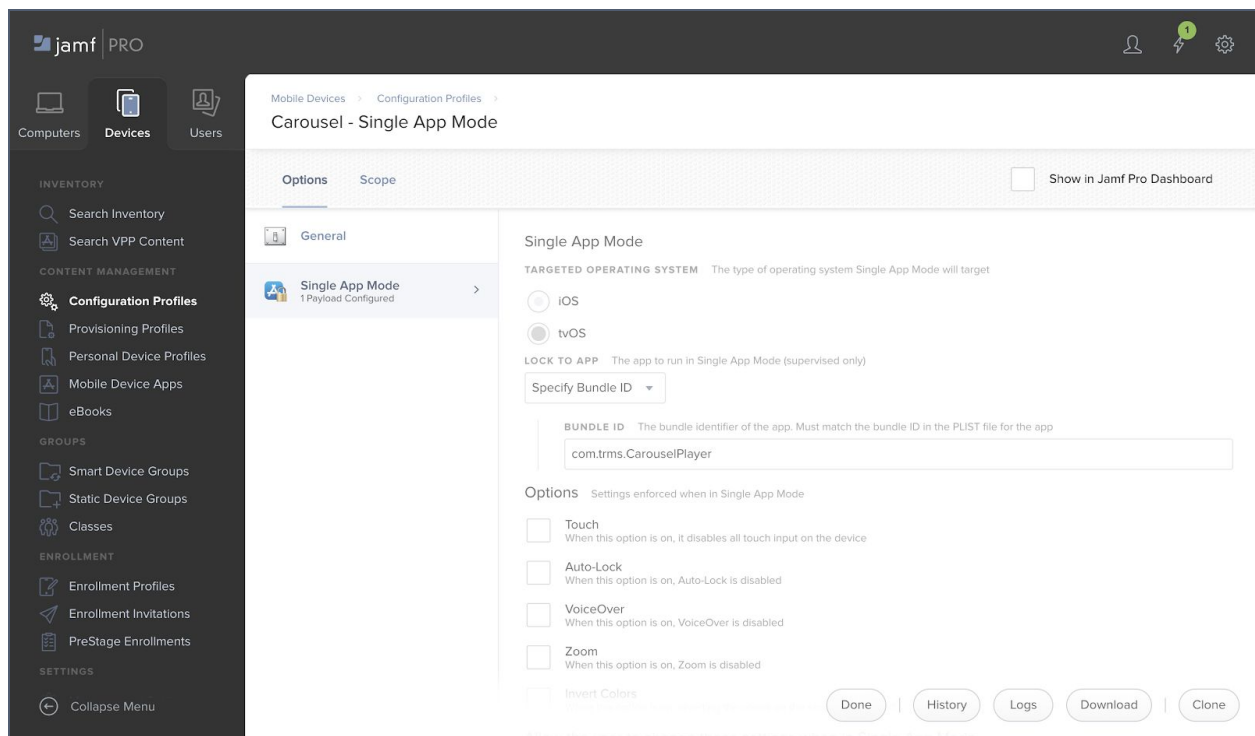
Carousel - Single App Mode

We highly recommend any Apple TV being used for digital signage run in Single App Mode. This will limit the screen to only showing Carousel, unless AirPlay overrides it.

Create a new Configuration Profile and set the 'Name' to "Carousel - Single App Mode". While in the 'Options' tab, scroll the sidebar down to find 'Single App Mode', select it and then press 'Configure' in the main pane. Set the 'Targeted Operating System' to 'tvOS'. Fill in the

'Bundle ID' with either "com.trms.CarouselPlayer" for Carousel Player or "com.trms.CarouselCloudPlayer" for Carousel Cloud Player.

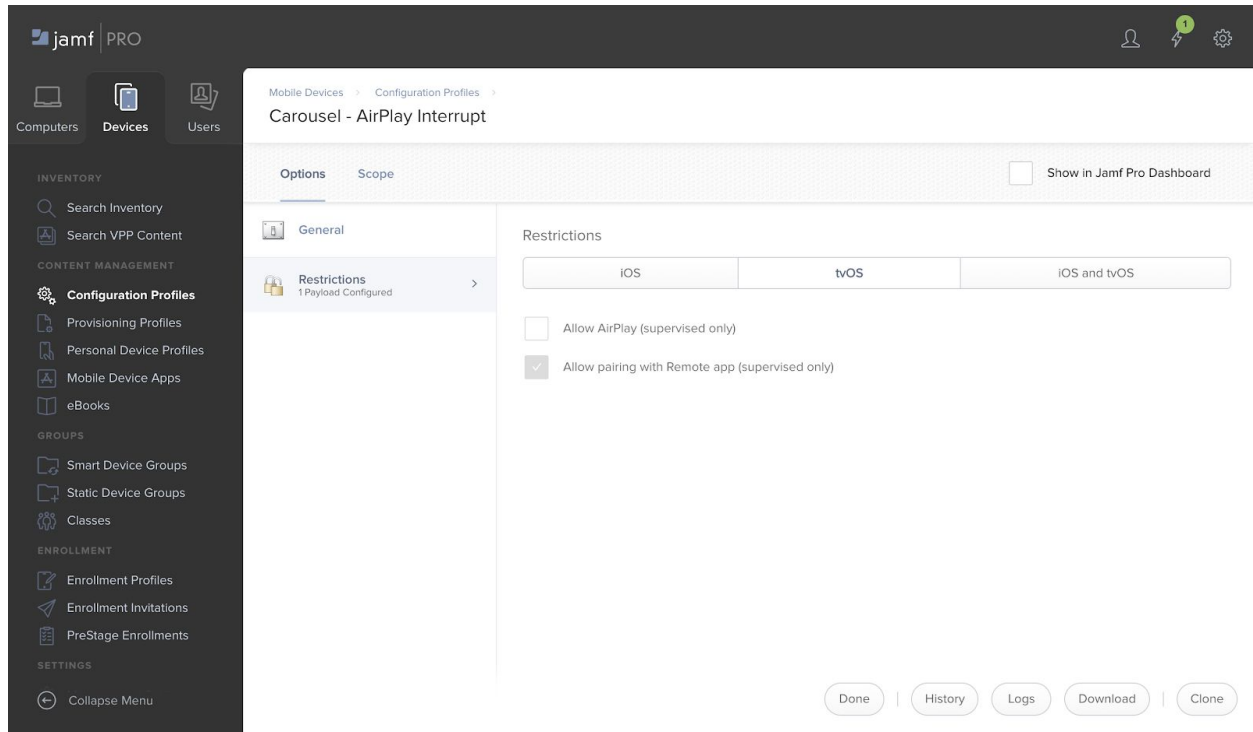
Complete the process by scoping the applicable Configuration Profiles to the 'Carousel Smart Group'



Carousel - AirPlay Interrupt (optional)

If you would like Carousel to interrupt AirPlay sessions when alert content is triggered you will need to create an additional configuration profile. This profile will turn off AirPlay so the Apple TV goes back into single app mode, showing only the Carousel Player App.

There is no need to scope this to any groups, as Carousel will do this automatically after the additional configurations below.

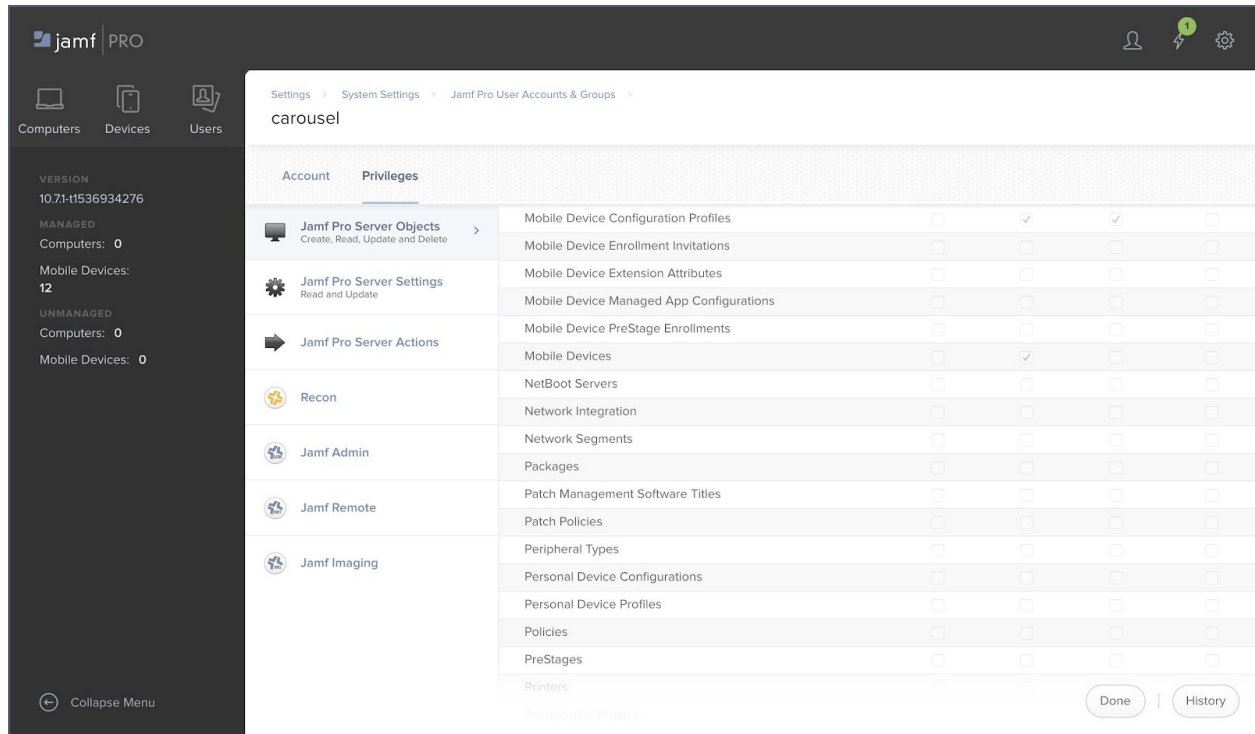


Create Jamf User Service Account

Click into 'Settings' in the upper-right corner, then on 'Jamf Pro User Accounts & Groups', then 'New'. Select 'Create Standard Account' and set the 'Username' to "Carousel". Leave the new account set for 'Full Access' and 'Custom' respectively for 'Access Level' and 'Privilege Set'. In the 'Privileges' tab, within the 'Jamf Pro Server Objects' option enable the following:

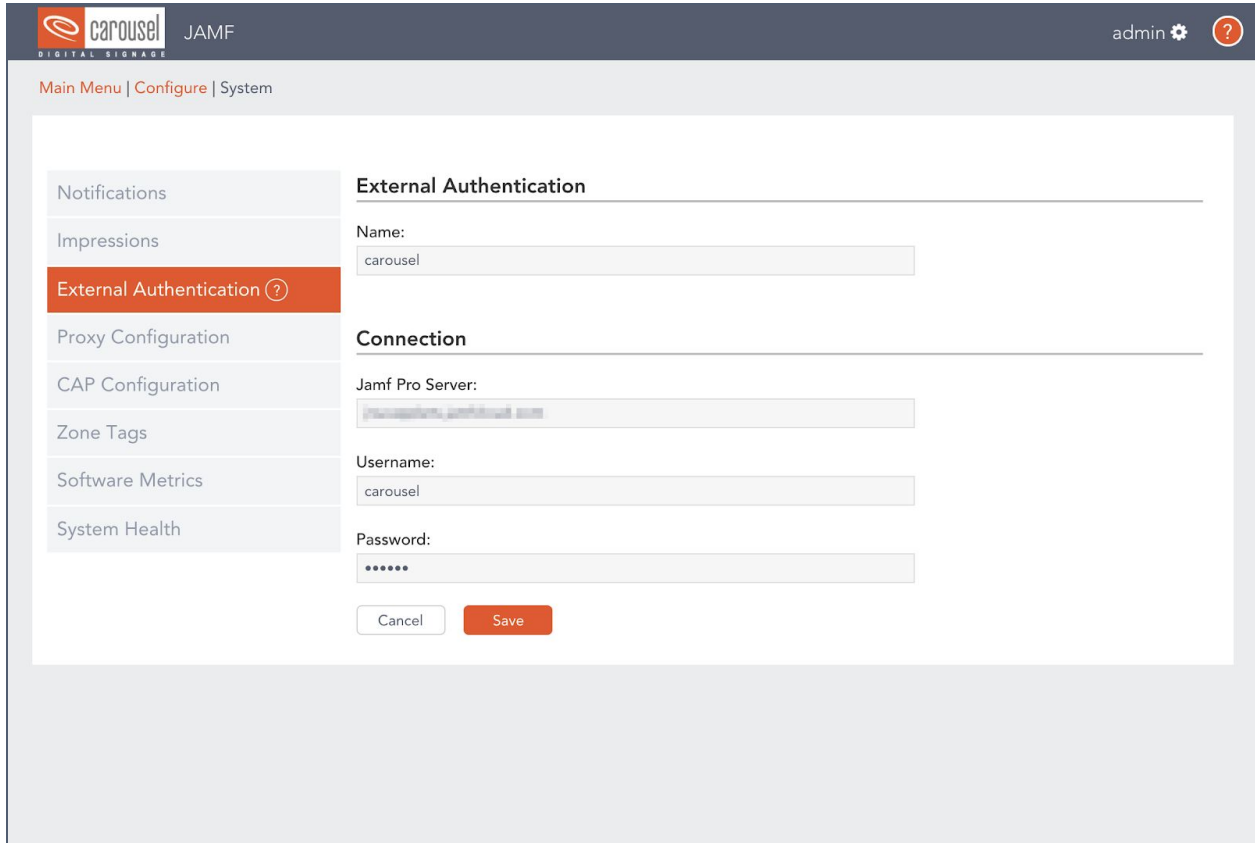
- Mobile Device Configuration Profiles
 - Read
 - Update
- Mobile Devices
 - Read
- Static Mobile Device Groups
 - Create
 - Read
 - Update
 - Delete

Then 'Save'.



Authenticate Carousel with Jamf Pro

Login to your Carousel user interface and go to Configure -> System -> External Authentication. Click on 'New' and set the 'Type' to 'Jamf Pro'. Give the authentication a 'Name' and fill in the information about your Jamf Pro instance, using the service account we just created. Click 'Save'.



The screenshot shows the Carousel JAMF configuration interface. The top navigation bar includes the Carousel logo, 'JAMF', and a user profile 'admin' with a settings gear and a help icon. Below the navigation bar, there's a breadcrumb trail: 'Main Menu | Configure | System'. A left sidebar lists various configuration options: Notifications, Impressions, External Authentication (highlighted in orange with a question mark), Proxy Configuration, CAP Configuration, Zone Tags, Software Metrics, and System Health. The main content area is titled 'External Authentication' and contains two sections: 'Name' with a text field containing 'carousel', and 'Connection' which includes 'Jamf Pro Server' (with a placeholder 'placeholder, optional url'), 'Username' (with a text field containing 'carousel'), and 'Password' (with a masked text field '*****'). At the bottom of the form are 'Cancel' and 'Save' buttons.

Enable AirPlay Interrupt

In Carousel user interface and go to Configure -> Zones. Select the 'Edit' icon for a Full Screen Alert zone. Scroll down to 'Alert Settings' and choose the 'MDM Configuration Profile' we setup in the Carousel - AirPlay Interrupt (optional) section above. The 2 options for 'Force Profile When' are:

- Alerts are Active - Will stop any current AirPlay sessions and not allow new ones while the alert is up.
- An Alert is Triggered - Will stop any current AirPlay sessions, but allow them to reconnect after a short period of time.

Alert Settings

Yes

☐

Force Monitor On When Alerts Are Active?

MDM Configuration Profiles:

× Carousel - AirPlay Interrupt

▼

Force Profile When:

Alerts are Active

▼

Finished!

You're still here?

It's over.

Go play with your new Carousel Digital Signage powered by Jamf.

Go.



carousel



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tightrope media systems 