



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 iPad and Apple TV media players to display this content. Carousel Player or Carousel Cloud Player App must be installed on each iPad or 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 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.

Carousel Cloud Player is available for iPads running iOS 11 or later, as well as Apple TVs.

Carousel Player is only available for Apple TVs

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.

jamfPRO

Computers

Devices

Users

INVENTORY

Search Inventory

Search VPP Content

CONTENT MANAGEMENT

Configuration Profiles

Provisioning Profiles

Personal Device Profiles

Mobile Device Apps

eBooks

GROUPS

Smart Device Groups

Static Device Groups

Classes

ENROLLMENT

Enrollment Profiles

Enrollment Invitations

PreStage Enrollments

SETTINGS

Management Settings

Collapse Menu

Mobile Devices > PreStage Enrollments >

Carousel

OptionsScope

General

Mobile Device Names >

User and Location

Purchasing

Attachments0 Attachments

Certificates

Mobile Device Names

NAMING METHODMethod to use to name mobile devices

Serial Numbers

☒ Enforce Mobile Device Names

Mobile device name will revert to the value entered if the device name is changed by the user

PREFIX

Carousel

SUFFIX

DoneHistoryRefresh

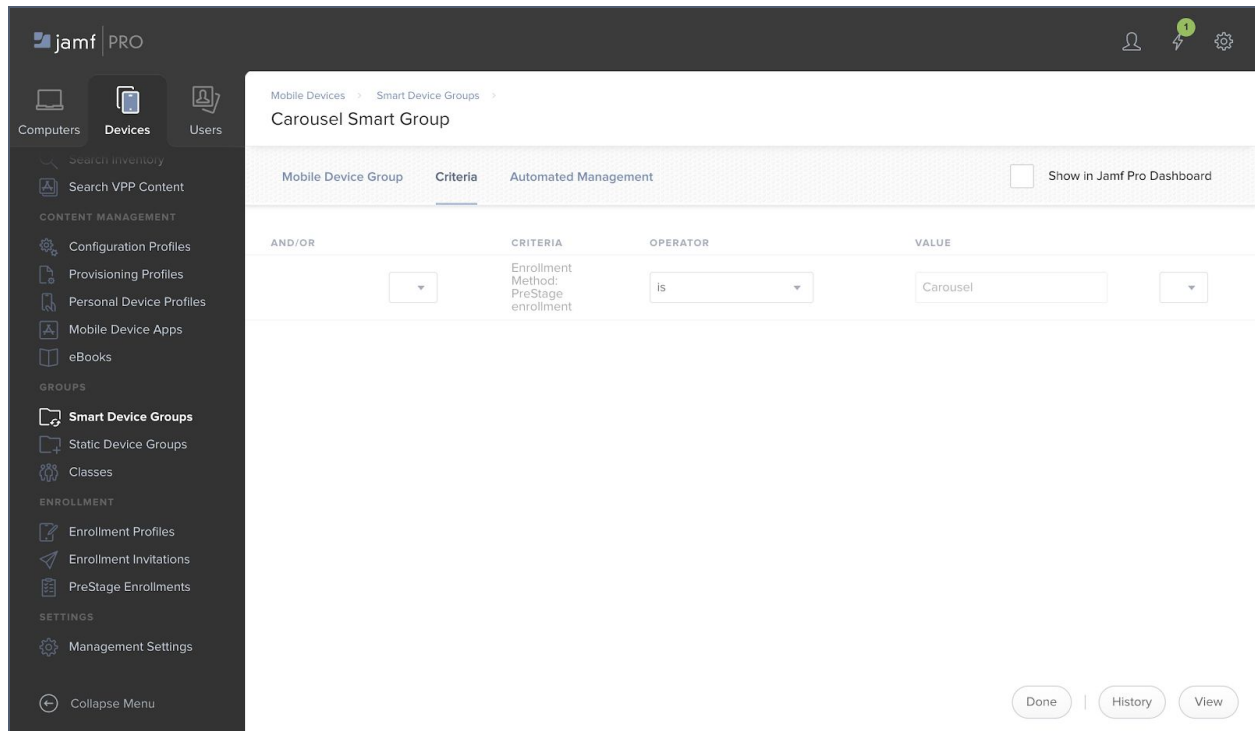
Next scope the new PreStage Enrollment to the Apple devices you would like to use as Players using the 'Scope' tab to select available devices.

The screenshot shows the Jamf Pro interface. On the left is a sidebar with navigation options: Computers, Devices, and Users. Below these are sections for INVENTORY, CONTENT MANAGEMENT, GROUPS, ENROLLMENT, and SETTINGS. The main content area is titled 'Mobile Devices > PreStage Enrollments > Carousel'. It has two tabs: 'Options' and 'Scope'. The 'Scope' tab is active, showing a table of devices. The table has columns for DEVICE, SERIAL NUMBER, MODEL, DESCRIP..., ASSET T..., PRESTAGE ENROLLMENT S..., and DEV. There are five rows of devices, each with a checkbox in the first column. The bottom of the table has a pagination bar with '1' selected, 'Show: 100', and buttons for 'Done', 'History', and 'Refresh'.

	DEVICE	SERIAL NUMBER	MODEL	DESCRIP...	ASSET T...	PRESTAGE ENROLLMENT S...	DEV
<input type="checkbox"/>	CarouselC07WWVW0J1WF	C07WWVW0J1WF	Apple TV _U	APPLE TV 4K (32GB)-USA		Assigned - 09/25/2018 at 3:07 PM	09/ PM
<input checked="" type="checkbox"/>	CarouselC07WWVW6J1WF	C07WWVW6J1WF	Apple TV _U	APPLE TV 4K (32GB)-USA		Assigned - 09/25/2018 at 3:07 PM	09/ PM
<input checked="" type="checkbox"/>	CarouselDY3WT34DJ1WF	DY3WT34DJ1WF	Apple TV _U	APPLE TV 4K (32GB)-USA		Assigned - 09/25/2018 at 3:07 PM	09/ PM
<input checked="" type="checkbox"/>	CarouselDY3WT363J1WF	DY3WT363J1WF	Apple TV _U	APPLE TV 4K (32GB)-USA		Assigned - 09/25/2018 at 3:07 PM	09/ PM
<input checked="" type="checkbox"/>	CarouselDY3WT37KJ1WF	DY3WT37KJ1WF	Apple TV _U	APPLE TV 4K (32GB)-USA		Assigned - 09/25/2018 at 3:07 PM	09/ PM

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

Carousel Player (tvOS only) - For on-premise Carousel 7 installations

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>

Carousel Cloud Player (iOS and tvOS) - For Carousel Cloud users

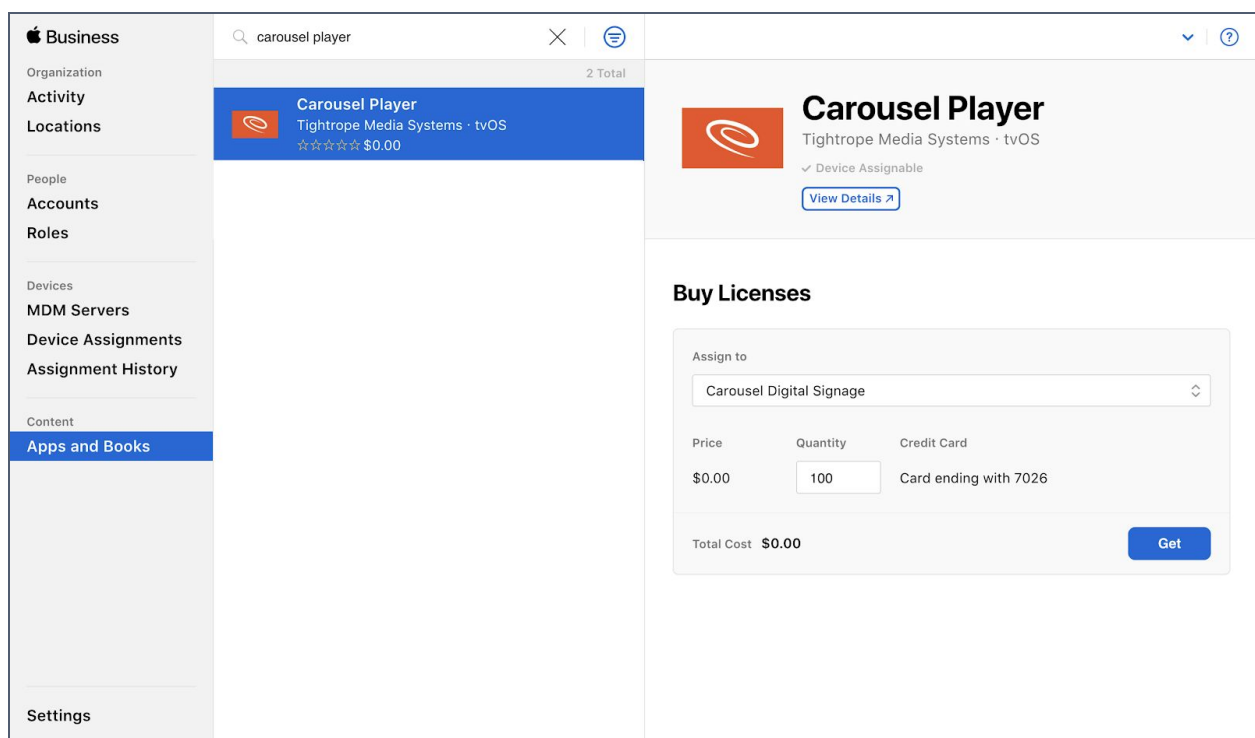
Open a new tab and open the appropriate App Store:

- 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-cloud-player/id1445565555?mt=8>

- Legacy Education Volume Purchase Program - <https://volume.itunes.apple.com/us/app/carousel-cloud-player/id1445565555?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 devices, 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

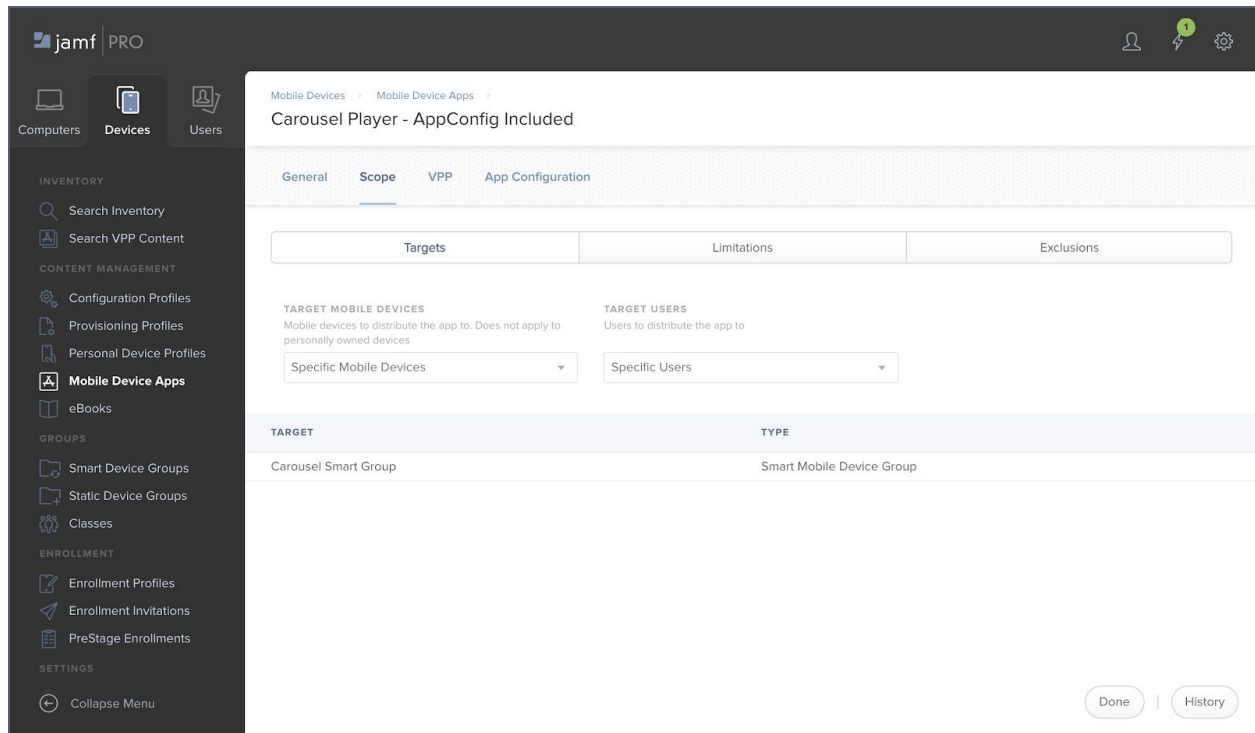
Set a 'Display Name' for the app or choose to leave the default. Change the 'Distribution Method' to 'Install Automatically/Prompt Users to Install'. Choose 'Schedule Jamf Pro to automatically

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 menus: 'Computers', 'Devices', and 'Users' at the top; 'INVENTORY' with 'Search Inventory' and 'Search VPP Content'; 'CONTENT MANAGEMENT' with 'Configuration Profiles', 'Provisioning Profiles', 'Personal Device Profiles', and 'Mobile Device Apps' (highlighted); 'GROUPS' with 'Smart Device Groups', 'Static Device Groups', and 'Classes'; 'ENROLLMENT' with 'Enrollment Profiles', 'Enrollment Invitations', and 'PreStage Enrollments'; and 'SETTINGS' with 'Collapse Menu'. The main content area is titled 'Mobile Devices > Mobile Device Apps > Carousel Player - AppConfig Included'. It has four tabs: 'General', 'Scope', 'VPP', and 'App Configuration' (selected). The 'App Configuration' tab contains the following fields: 'DISPLAY NAME' (Carousel Player - AppConfig Included), 'Enabled' (checked), 'CATEGORY' (None), 'VERSION' (6), 'BUNDLE IDENTIFIER' (com.trms.CarouselPlayer), 'Free' (checked, 'App is free'), '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. A small note at the bottom states: 'Schedule Jamf Pro to automatically check iTunes for app updates'.

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

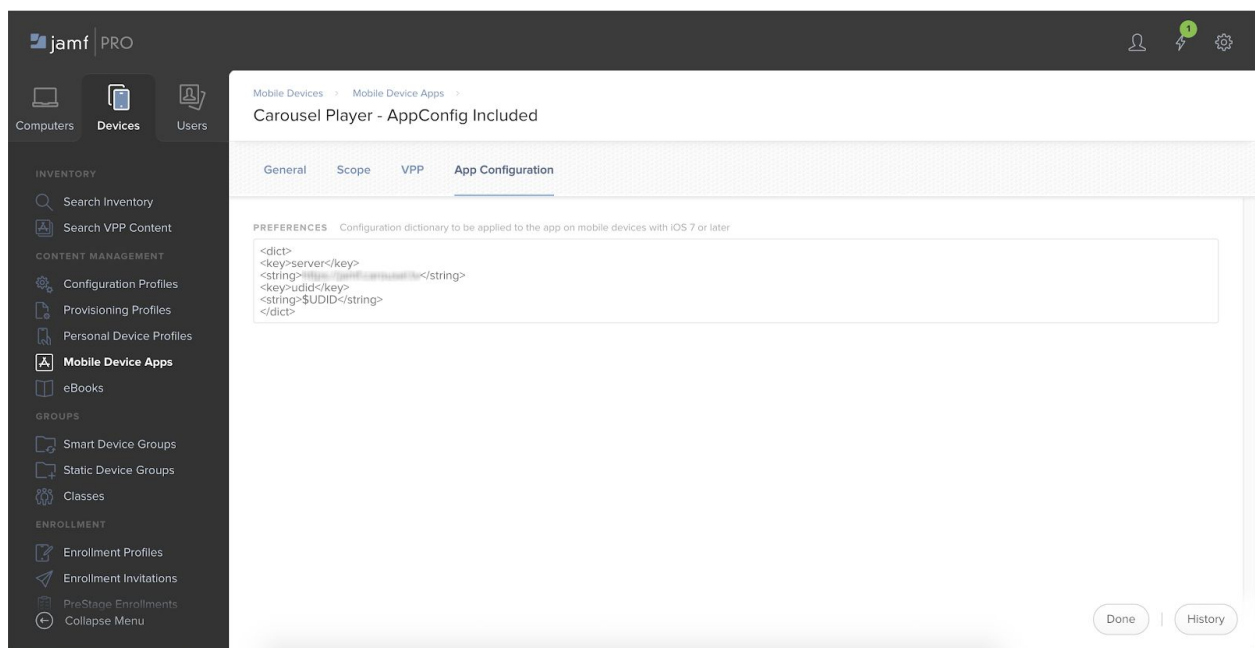
Carousel Cloud Player - For Carousel Cloud users

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>a1b2c3d4e-5d6f-g7h8-i9j0k1l2m3n4</string>
</dict>
```

The <strings> for server and key will be different and generated by Carousel Cloud.

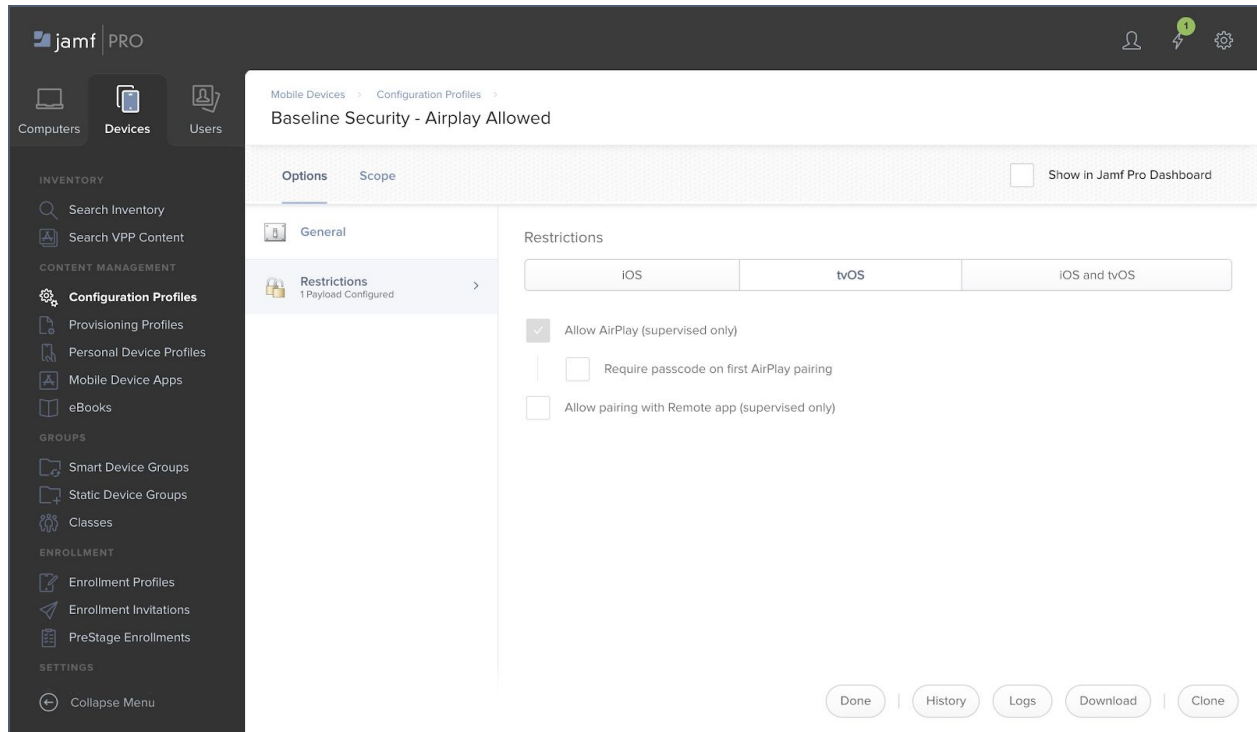
Click 'Save'



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.

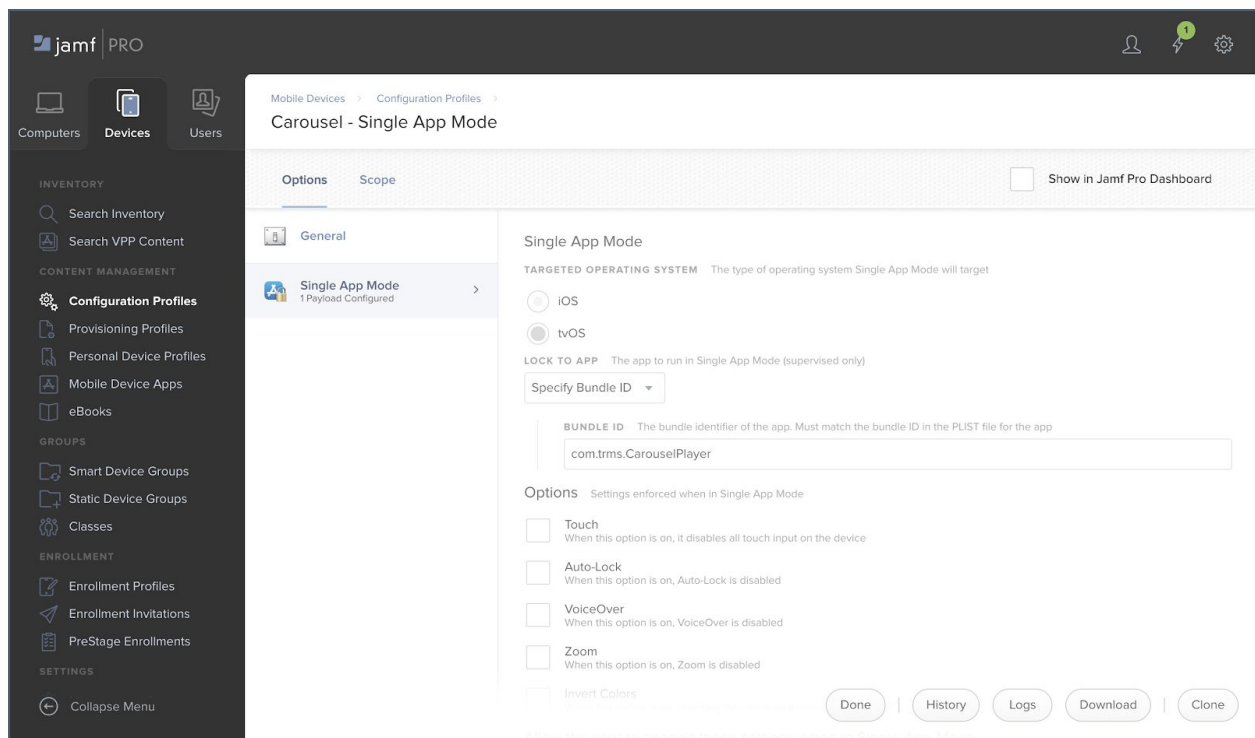


Carousel - Single App Mode tvOS

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 - Single App Mode iOS

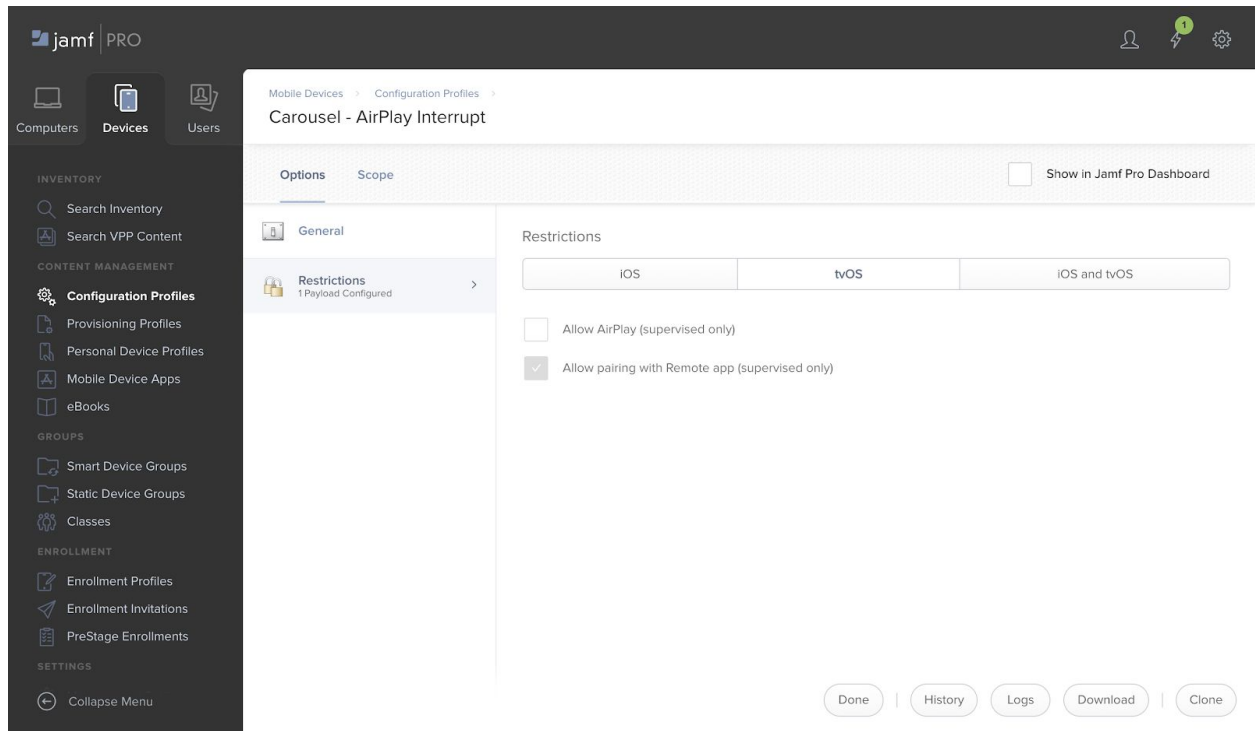
A similar process above can be used to keep iPads showing Carousel content. Simply set the 'Targeted Operating System' to 'iOS'.

You can also choose to not scope this Configuration Profile to iPads and instead use it in a similar fashion to AirPlay Interrupt for Apple TVs, by having Carousel scope the Profile when an Alert is activated.

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.

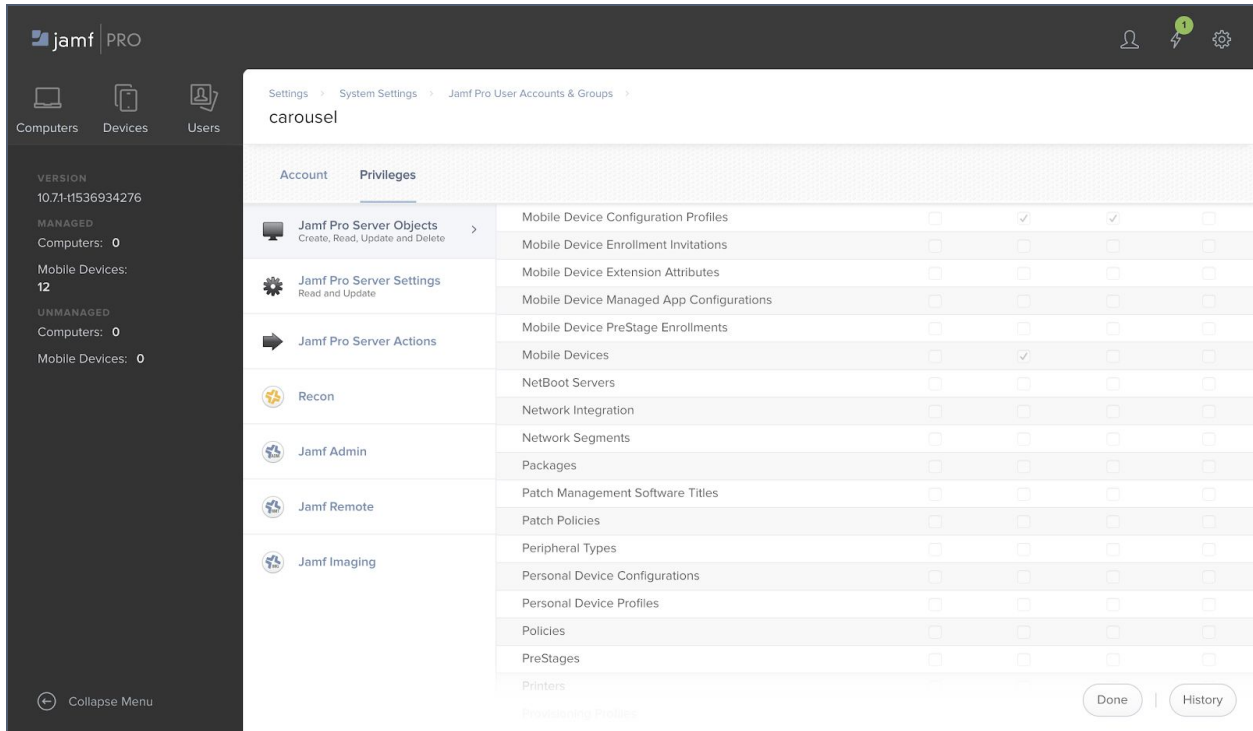


Create Jamf User Service Account

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:

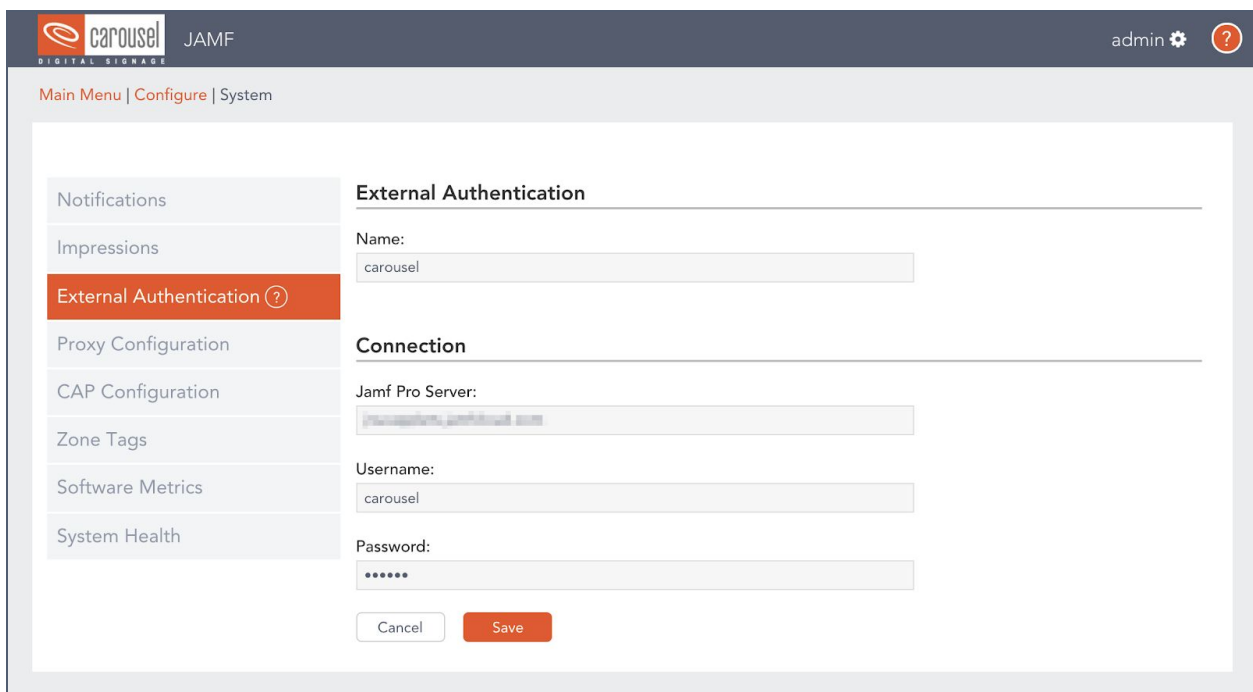
- Mobile Device Configuration Profiles
 - Read
 - Update
- Mobile Devices
 - Read
- Static Mobile Device Groups
 - Create
 - Read
 - Update
 - Delete

Then 'Save'.



Authenticate Carousel with Jamf Pro

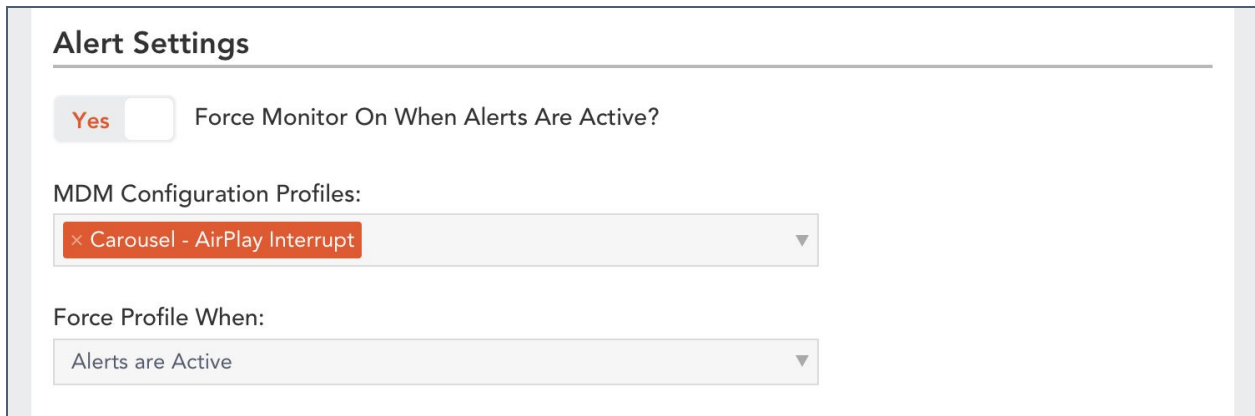
Login to your Carousel user interface and go to Configure -> System -> External Authentication. Click on 'New' and set the 'Type' to 'Jamf Pro'. Give the authentication a 'Name' and fill in the information about your Jamf Pro instance, using the service account we just created. Click 'Save'.



Enable MDM Configuration Profiles

In the 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 set up in the sections 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.



The screenshot shows the 'Alert Settings' panel. At the top, there is a toggle switch for 'Force Monitor On When Alerts Are Active?' which is currently set to 'Yes'. Below this, there is a section for 'MDM Configuration Profiles:' with a dropdown menu showing 'x Carousel - AirPlay Interrupt'. At the bottom, there is a section for 'Force Profile When:' with a dropdown menu showing 'Alerts are Active'.

Finished!

You're still here?

It's over.

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

Go.



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tightrope media systems 