

App CATalog Setup Guide for Jamf School and Jamf Pro



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Release Notes

What's new in this version?

- In the **Jamf Pro** version, a new key may be added into the Managed App Configuration to allow apps to be installed from Self Service if they aren't already installed:

```
<key>EnableSelfServiceInstall</key>
<string>yes</string>
```

See updated key in the **Managed App Configuration for Jamf Pro** section of this guide for more information.

- In the **Jamf Pro** version, fixed the key in the Managed App Configuration to allow only specified users to edit app tags:

```
<key>AuthorizedTagEditorsIds</key>
<string>ENTER_USERNAME_HERE</string>
```

See updated key in the **Managed App Configuration for Jamf Pro** section of this guide for more information.

- In the **Jamf Pro** version, added the \$USERNAME variable into the Managed App Configuration to ensure that the correct authorized editor was being recognized. See updated key in the **Managed App Configuration for Jamf Pro** section of this guide for more information.

Things to know or known issues

- If using the new Self Service installation method for Jamf Pro, it takes about 6 minutes for App CATalog to see that the app was installed. This is due to how Jamf Pro works with the amount of time it needs to send the information back to the device. Otherwise, sending a manual "Update Inventory" will quicken to process in the device record.
- In App CATalog, in the top left corner where it says "Welcome, FULLNAME", the variable is only able to be updated if the Managed App Configuration is updated/re-deployed. This is due to Jamf Pro limitations.
- When going between App CATalog and other apps, the app catalog within App CATalog may re-load. This is a bug we're looking into.

App CATalog Overview

App CATalog was created by the Jamf Community Education Initiatives team as a tool for educators. It's an iOS app designed to serve as a **catalog of iOS apps** used across an organization, drawing from its specific Jamf School or Jamf Pro instance, to show why applications were selected.

App CATalog will allow you to:

- **Browse all iOS apps in your school system**

App CATalog allows educators to view all iOS apps available across their school system—even apps that aren't currently assigned to them or their students.

- **Understand the “why” behind each app**

Instructional staff can view and share why an app was selected and how it's being used within the classroom.

- **Collaborate and contribute**

Educators can add comments, link to online resources, share activities, and provide use case examples for any app.

- **Search and filter with ease**

Filters can be customized to meet your organization's needs (e.g., grade level, subject, standards). These filters are created by your Jamf School or Jamf Pro administrator.

- **See app history and posts**

Purpose & Use posts—especially the initial entry—help capture when, why, and by whom an app was selected. This builds a shared knowledge base for instructional staff.

Jamf School Integration

Requirements:

- Jamf School instance
- Jamf School API key

To start, we must configure settings within Jamf School to allow for the storage of the backend data from App CAtalog. To do this, we will enable our API key, add our “AppCat” location with the following steps:

1. At the top level in Jamf School, click **Organization**.
2. Select **Settings**.
3. Select **API**.
4. Click **Add API Key**.
5. Select **Read, Add, Edit, Delete**.
6. Under **Organization**, select **Locations**.
7. Click **Add Location**, and under Name, enter “AppCat” and click **Apply**.
8. If you have multiple **Locations**, complete steps 9-37 as often as needed within each **Location**.

Next, we will create our device groups that we will be sending App CAtalog to, if you don’t have them already. If you already have device groups that contain your educator’s devices, you may skip to the next section:

9. On the left side bar, select **Devices**, and then select **Device Groups**.
10. Select **+ Add Group**.
11. Name the group something similar to “Educator Devices”.
12. Select either **Static Group** or **Smart Group**, depending on how you want App CAtalog to deploy to the educator’s device.
13. Select **6. Members** circle.

14. Either select individual devices if you created a **Static Group**, or add your filters if you created a **Smart Group**.
15. Click **Finish**.

Then, we will bring App CATalog into your Jamf School Apps by either adding it manually within Jamf School, or bringing it in from your Apple School Manager instance. If you already have App CATalog in your Apps section in Jamf School, you may skip to the next section:

16. On the left side bar, select **Apps**.
17. Click **Inventory**.
18. Click **Add App**.
19. Select **Add App Purchased in Volume or Add iOS App**, and then search for App CATalog - Education.
20. If you selected **Add App Purchased in Volume**, enter the number of licenses you want for App CATalog - Education in **Apple School Manager** and select **Get**.
21. If you selected **Add App Purchased in Volume**, in **Jamf School**, click **Apps**.
22. Select **Inventory**.
23. Click **Sync with Apple School Manager**.
24. Select **App CATalog - Education**.

Then, we will configure your custom Managed App Configuration to have the filters that you want to incorporate for your educators to use within App CATalog:

25. Select **Apply Managed Configuration** under the **Options** menu on the right side bar.
26. Under **Managed Configuration**, enter something similar to the following Managed App Configuration in the text box with your customized changes. See the **Managed App Configuration for Jamf School** section below to get specific details on how to use the

Managed App configuration. App CATalog's Managed App Configuration allows you to customize App CATalog for multiple locations, if wanted:

```

<plist version = "1.0">
<dict>
  <key>CompanyName</key>
    <string>%CompanyName%</string>
  <key>NetworkId</key>
    <string>%NetworkId%</string>
  <key>apikey</key>
    <string>YOUR_API_KEY_GOES_HERE</string>
  <key>UserId</key>
    <string>%UserId%</string>
  <key>udid</key>
    <string>%udid%</string>
  <key>FullName</key>
    <string>%FullName%</string>
  <key>InstanceName</key>
    <string>YOUR_INSTANCE_NAME_GOES_HERE</string>
  <key>GradeLevelsList</key>
    <string>YOUR_GRADE_LEVELS_GO_HERE</string>
  <key>StandardsList</key>
    <string>YOUR_STANDARDS_GO_HERE</string>
  <key>SubjectsList</key>
    <string>YOUR_SUBJECTS_GO_HERE</string>
  <key>BrandingUrl</key>
    <string>YOUR_URL_GO_HERE</string>
  <key>AuthorizedTagEditorsIds</key>
    <string>USER_ID_GO_HERE</string>
  <key>disable-app-request</key>
    <string>YES_OR_NO</string>
  <key>EnableCustomCategory</key>
    <string>yes</string>
  <key>CustomCategoryName</key>
    <string>CUSTOM_NAME_GO_HERE</string>
  <key>CustomCategoryList</key>
    <string>YOUR_CUSTOM_NAMES_GO_HERE</string>
</dict>
</plist>

```

For a complete reference of key-value pairs, see **Managed App Configuration for Jamf School** below.

Next, we will deploy App CATalog to your device group of educator iPads. If you are wanting to only deploy App CATalog to one device, skip to the next section below:

27. Click on + to assign App CATalog to your Educator **Device Group**.
28. Select the gear on the **Device Group**.
29. Click **Managed Configuration: "XML Name"** so it shows a small circle with a check.
30. Click **Save**.

To send App CATalog to a single device instead of a Device Group, follow these steps:

31. Select **Devices**.
32. Select your individual iPad you wish to send App CATalog to.
33. Within the Device Inventory Record, select **Managed Apps**.
34. Click on the **"Add apps +"** button.
35. On the row with App CATalog - Education, under the **Managed Config** column, select the "None" and select your **"New XML"**.
36. Click the **Add** button.

Finally, in order to use the App Request workflow in App CATalog, you will need to ensure that Jamf Teacher is setup correctly on the educator devices:

37. To ensure your educators are able to use the **App Request** workflow within App CATalog without error, ensure that you have deployed the Jamf Teacher app, and that your educators have completed the Jamf Teacher setup. For full instructions on deploying Jamf Teacher, follow this guide here: https://learn.jamf.com/en-US/bundle/jamf-teacher-configuration-guide/page/Jamf_Teacher_Integration_with_Jamf_School.html

Managed App Configuration for Jamf School

Managed app configuration is a set of key-value pairs used to configure iOS applications.

Key-Value Pair	Description
<pre><key>CompanyName</key> <string>%CompanyName%</string></pre>	Required, leave as is The name of your organization.
<pre><key>NetworkId</key> <string>%NetworkId%</string></pre>	Required, leave as is The Network ID of your organization.
<pre><key>apikey</key> <string>\$YOUR_API_KEY_GOES_HERE\$</string></pre>	Required, modify with own string The API key is used to enable API calls, and can be found within Jamf School at the top level. Go to Organization>Settings>API and copy the key under “Key”. For example: <pre><key>apikey</key> <string>P9PXXXXXXXXXXXXXXXXXXXX</string></pre>
<pre><key>UserId</key> <string>%UserId%</string></pre>	Required, leave as is The teacher user’s internal ID.
<pre><key>udid</key> <string>%udid%</string></pre>	Required, leave as is The teacher device’s unique identifier.
<pre><key>FullName</key> <string>%FullName%</string></pre>	Required, leave as is The teacher user’s full name.
<pre><key>InstanceName</key> <string>YOUR_INSTANCE_NAME_GOES_HERE</string></pre>	Required, modify with own string Jamf School instance name. This is found in the Jamf School URL as the name before “.jamfcloud”. For example, a URL of https://townshipschool.jamfcloud.com would be set as the following: <pre><key>InstanceName</key> <string>townshipschool</string></pre>
<pre><key>GradeLevelsList</key> <string>YOUR_GRADE_LEVELS_GO_HERE</string></pre>	Highly recommended, heading will remain if removed. Modify with own string List out your desired grade levels, separating them by a comma. For example: <pre><key>GradeLevelsList</key> <string>Kindergarten,1st Grade,2nd Grade</string></pre>

Key-Value Pair	Description
<pre><key>StandardsList</key> <string>YOUR_STANDARDS_GO_HERE</string></pre>	Highly recommended, heading will remain if removed. Modify with own string List out your desired standards, separating them by a comma. To add sub-standards, include a pipe () symbol. For example: <pre><key>StandardsList</key> <string>Science, Mathematics Whole Numbers,Mathematics Algebra,ICT</string></pre>
<pre><key>SubjectsList</key> <string>YOUR_SUBJECTS_GO_HERE</string></pre>	Highly recommended, heading will remain if removed. Modify with own string List out your desired subjects, separating them by a comma. For example: <pre><key>SubjectsList</key> <string>Grade 8 English,Geometry II,US History</string></pre>
<pre><key>BrandingUrl</key> <string>YOUR_URL_GO_HERE</string> <key>BrandingImageHeight</key> <string>40</string></pre>	Optional, remove if not wanted Enter the URL for your custom image to be shown. Recommended size of 40, can be customized. For example: <pre><key>BrandingUrl</key> <string>https://resources.jamf.com/images/ logos/Jamf-School-color.png</string></pre>
<pre><key>AuthorizedTagEditorsIds</key> <string>USER_ID_GO_HERE</string></pre>	Required, modify with own string User ID for Jamf School user who can edit tags. This is found by going to Users and selecting the appropriate user, and then in the URL copying the User ID. Multiple users may be added, separating them by a comma. For example, a URL of https://townshipschool.jamfcloud.com/users/details/1000.html and https://townshipschool.jamfcloud.com/users/details/2000.html would be set as the following: <pre><key>AuthorizedTagEditorsIds</key> <string>1000,2000</string></pre> *Leaving this string blank or deleting it authorizes all App CAtalog users to edit tags. To not allow anyone to edit the tags, input “0” as the User ID within Managed App Configuration.
<pre><key>disable-app-request</key> <string>YES_OR_NO</string></pre>	Optional, remove if not wanted Showing or hiding App Request button. “NO” shows the button, “YES” hides the button.

Key-Value Pair	Description
<pre> <key>EnableCustomCategory</key> <string>yes</string> <key>CustomCategoryName</key> <string>CUSTOM_NAME_GO_HERE</string> <key>CustomCategoryList</key> <string>YOUR_CUSTOM_NAMES_GO_HERE </string> </pre>	Optional, remove if not wanted Creates one custom category name under “Special Categories”. CustomCategoryList can have multiple tag options, separating them by a comma. For example: <pre> <key>EnableCustomCategory</key> <string>yes</string> <key>CustomCategoryName</key> <string>Special Education</string> <key>CustomCategoryList</key> <string>IEP, Speech & Language,Occupational Therapy</string> </pre> Custom Category Name will show under the Special Categories under the Filters, and the Custom Category List show as tag options when selecting the tag within each app when you tag them individually.

Jamf Pro Integration

Requirements:

- Jamf Pro instance
- Jamf Pro API Role & Client

To start, we must configure settings within Jamf Pro to allow for App CAtalog to read your Mobile Device Apps, store the data within Jamf Pro, and see the full name of the educator using App CAtalog to include in posts within App CAtalog. We will then begin with the following steps:

1. At the top level in Jamf Pro, click **Settings**.
2. Select **System**.
3. Select **API roles and clients**.
4. Under **API Roles**, select “**+New**” button on top right.
5. Under **Display name**, enter “**App CAtalog API Role**”.
6. Under **Privileges**, select “**Create Scripts**”, “**Read Mobile Device Applications**”, “**Read Mobile Devices**”, “**Read Scripts**”, and “**Update Scripts**”.
7. Click **save**.
8. Under **API roles and clients**, select **API Clients** tab.
9. Select “**New +**” button on top right.
10. Under **Display name**, enter “**App CAtalog API Client**”.
11. Under **API roles**, select “**App CAtalog API Role**”.
12. Under Enable/Disable API Client, click **Enable API Client** button.
13. Click **save**.
14. Select blue **Generate client secret** button.
15. Select blue **Create secret** button.
16. Select blue **Copy client credentials to clipboard**.
17. Select **close**.
18. Paste copied **client credentials** to a secure location.

Next, we will need to bring App CATalog into your Mobile Device Apps. If you have already brought App CATalog into your Mobile Device Apps, you may go to the next section:

19. In **Apple School Manager**, under **Apps & Books**, search for **App CATalog - Education**.
20. Select your **Location** and enter the number of licenses you want.
21. In **Jamf Pro**, select **Devices**.
22. Select **Mobile Device Apps**.
23. Select “+ **New**” button on the top right.
24. Select **App Store app or apps purchased in volume** and select next.

Then, we will distribute App CATalog to your educator devices and and configure your custom Managed App Configuration to include your customized filters to be used by your educators within App CATalog:

25. Within your **Mobile Device Apps**, enter **App CATalog - Education** in the search bar and select next.
26. Select the **Add** button.
27. Under **General**, select your preferred **Distribution Method** and other additional settings.
28. Under **Scope**, select your scope of choice.
29. Under **Managed Distribution**, select **Device Assignments** and check **Assign Content Purchased in Volume**.
30. Under **App Configuration**, enter something similar to the following **App Configuration** in the text box with your customized changes. See the **Managed App Configuration for Jamf Pro** after this section to get specific details on how to use the Managed App configuration:

```

<dict>
  <key>JPS_URL</key>
  <string>$JPS_URL</string>
  <key>JSSID</key>
  <string>$JSSID</string>
  <key>FULLNAME</key>
  <string>$FULLNAME</string>
  <key>USERNAME</key>
  <string>$USERNAME</string>
  <key>mode</key>
  <string>pro</string>
  <key>ClientID</key>
  <string>YOUR_COPIED_API_CLIENT_ID_GOES_HERE</string>
  <key>ClientSecret</key>
  <string>YOUR_COPIED_API_CLIENT_SECRET_GOES_HERE</string>
  <key>BrandingUrl</key>
  <string>YOUR_URL_GOES_HERE</string>
  <key>GradeLevelsList</key>
  <string>YOUR_GRADE_LEVELS_GO_HERE</string>
  <key>StandardsList</key>
  <string>YOUR_STANDARDS_GO_HERE</string>
  <key>SubjectsList</key>
  <string>YOUR_SUBJECTS_GO_HERE</string>
  <key>AuthorizedTagEditorsIds</key>
  <string></string>
  <key>EnableSelfServiceInstall</key>
  <string>yes</string>
  <key>EnableCustomCategory</key>
  <string>yes</string>
  <key>CustomCategoryName</key>
  <string>CUSTOM_NAME_GO_HERE</string>
  <key>CustomCategoryList</key>
  <string>YOUR_CUSTOM_NAMES_GO_HERE</string>
</dict>

```

32. Click **save**.

For a complete reference of key-value pairs, see **Managed App Configuration for Jamf Pro** below.

Managed App Configuration for Jamf Pro

Managed app configuration is a set of key-value pairs used to configure iOS applications.

Key-Value Pair	Description
<pre><key>JPS_URL</key> <string>\$JPS_URL</string></pre>	Required, leave as is The Jamf Pro URL. This is brought in with a variable and doesn't require any action
<pre><key>JSSID</key> <string>\$JSSID</string></pre>	Required, leave as is The ID of your Jamf Pro Server. This is brought in with a variable and doesn't require any action
<pre><key>FULLNAME</key> <string>\$FULLNAME</string></pre>	Required, leave as is Full name of the assigned name on a teacher's iPad. This is brought in with a variable and doesn't require any action
<pre><key>USERNAME</key> <string>\$USERNAME</string></pre>	Required, leave as is Username of the assigned name on a teacher's iPad. This is brought in with a variable and doesn't require any action
<pre><key>mode</key> <string>pro</string></pre>	Required, leave as is The product is Jamf Pro.
<pre><key>ClientID</key> <string>YOUR_COPIED_API_CLIENT_ID_GOES_HERE</string></pre>	Required, modify with own string The Client ID copied from your API Client. Comes in format like: 255XXX15-dXXX-4XXX-9XXX-ecXXXbXXXc7a
<pre><key>ClientSecret</key> <string>YOUR_COPIED_API_CLIENT_SECRET_GOES_HERE</string></pre>	Required, modify with own string The Client Secret copied from your API Client. Comes in format like: n8YXXXXXXXXXXXXXXXXX- X2XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXX-ZAXXX
<pre><key>BrandingUrl</key> <string>YOUR_URL_GO_HERE</string> <key>BrandingImageHeight</key> <string>40</string></pre>	Optional, remove if not wanted Enter the URL for your custom image to be shown. Recommended size 40, can be customized. For example: <pre><key>BrandingUrl</key> <string>https://resources.jamf.com/images/logos/Jamf-School-color.png</string></pre>

Key-Value Pair	Description
<pre><key>GradeLevelsList</key> <string>YOUR_GRADE_LEVELS_GO_HERE</string></pre>	Highly recommended, heading will remain if removed. Modify with own string List out your desired grade levels, separating them by a comma. For example: <pre><key>GradeLevelsList</key> <string>Kindergarten,1st Grade,2nd Grade</string></pre>
<pre><key>StandardsList</key> <string>YOUR_STANDARDS_GO_HERE</string></pre>	Highly recommended, heading will remain if removed. Modify with own string List out your desired standards, separating them by a comma. To add sub-standards, include a pipe () symbol. For example: <pre><key>StandardsList</key> <string>Science, Mathematics Whole Numbers,Mathematics Algebra,ICT</string></pre>
<pre><key>SubjectsList</key> <string>YOUR_SUBJECTS_GO_HERE</string></pre>	Highly recommended, heading will remain if removed. Modify with own string List out your desired subjects, separating them by a comma. For example: <pre><key>SubjectsList</key> <string>Grade 8 English,Geometry II,US History</string></pre>
<pre><key>AuthorizedTagEditorsIds</key> <string>USERNAME_GOES_HERE</string></pre>	Required, modify with own string Username for Jamf Pro user who can edit tags. This is found by going to Users and seeing the Username's attached to each user in Jamf Pro. Multiple users may be added, separating them by a comma. For example: <pre><key>AuthorizedTagEditorsIds</key> <string>Aaron.maxim,kelly.conrad</string></pre> *Leaving this string blank or deleting it authorizes all App CATalog users to edit tags. Input a fake username if you don't want to allow anyone to edit tags.
<pre><key>EnableSelfServiceInstall</key> <string>YES_OR_NO</string></pre>	Optional, remove if not wanted Showing or hiding "Install from Self Service" button if app isn't installed. "NO" hides the button, "YES" shows the button.

Key-Value Pair	Description
<pre> <key>EnableCustomCategory</key> <string>yes</string> <key>CustomCategoryName</key> <string>CUSTOM_NAME_GO_HERE</string> <key>CustomCategoryList</key> <string>YOUR_CUSTOM_NAMES_GO_HERE </string> </pre>	Optional, remove if not wanted Creates one custom category name under “Special Categories”. CustomCategoryList can have multiple tag options, separating them by a comma. For example: <pre> <key>EnableCustomCategory</key> <string>yes</string> <key>CustomCategoryName</key> <string>Special Education</string> <key>CustomCategoryList</key> <string>IEP, Speech & Language,Occupational Therapy</string> </pre> Custom Category Name will show under the Special Categories under the Filters, and the Custom Category List show as tag options when selecting the tag within each app when you tag them individually.

Frequently Asked Questions

What types of apps show up in App CATalog?

App CATalog shows only shows iOS/iPadOS apps that are in-house apps, or from the Apple App Store. However, the Jamf Pro API is not able to distinguish between an iOS and tvOS app, and so if you're using Jamf Pro, you will see any tvOS apps in App CATalog as well until that distinction is able to be made in the API.

Can headers (such as Grades, Standards, Subjects, Teacher Tools, and EEP) be removed?

No. While you have the option to not add any items to be toggled under those headers, the headers will remain and cannot be changed.

What is EEP under the Special Categories for the filters?

Apple's Education Ecosystem Partner Program are a select group of apps directly impact education and are vetted by Apple to server educators and institutions. Apps in this program provide specific solutions to educators, and many provide additional professional learning opportunities too further support educators with technology. These apps are a hardcoded list and are not able to be changed within App CATalog, and are designated with a purple grad cap: <https://apps.apple.com/us/story/id1477661697>

Can I add additional custom categories?

No. Only one additional custom category may be added at this time.