Pearson System of Courses

Deploy with Mobile Device Management

Lightspeed Systems for iOS

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Deployment Process Overview

Lightspeed Systems is a mobile device management tool that allows for administration and management of large numbers of Apple iOS devices, such as iPads. The software helps IT administrators maintain, update, and ensure their fleet of devices are running at optimal performance, from automated software updates, to security, to inventory.

To leverage Lightspeed Systems to deploy the Pearson System of Courses app, there are two important considerations: how to deploy the Pearson System of Courses app and how to deploy the Pearson System of Courses content.

Pearson System of Courses App Considerations

To streamline the deployment of the Pearson System of Courses app, there are two key enablers: Supervising your devices, and enrolling in the Apple Volume Purchase Program (VPP). Supervising an iPad gives you greater control over the device, allows you to better manage large numbers of iPads simultaneously, and prevents the user removing any settings or apps you apply. Enrolling in VPP allows you to distribute apps in volume without using an Apple ID.

The recommendation is to leverage both VPP and Supervision to enable a zero touch deployment of the Pearson System of Courses app as detailed in Table 1 below:

Supervised?	VPP?	App Install Behavior
Yes	Yes	Zero touch app Install
Yes	No	Apple ID login prompt
No	Yes	Manual enrollment in MDM Install app MDM prompt
No	No	Manual enrollment in MDM Install app MDM prompt Apple ID login prompt

Table 1

Pearson System of Courses Content Considerations

The Pearson System of Courses content can be deployed over the air (refer to Figure 1) or by sideloading (refer to Figure 2). The recommendation is to use over the air because it is a more scalable process and requires less active time during deployment.
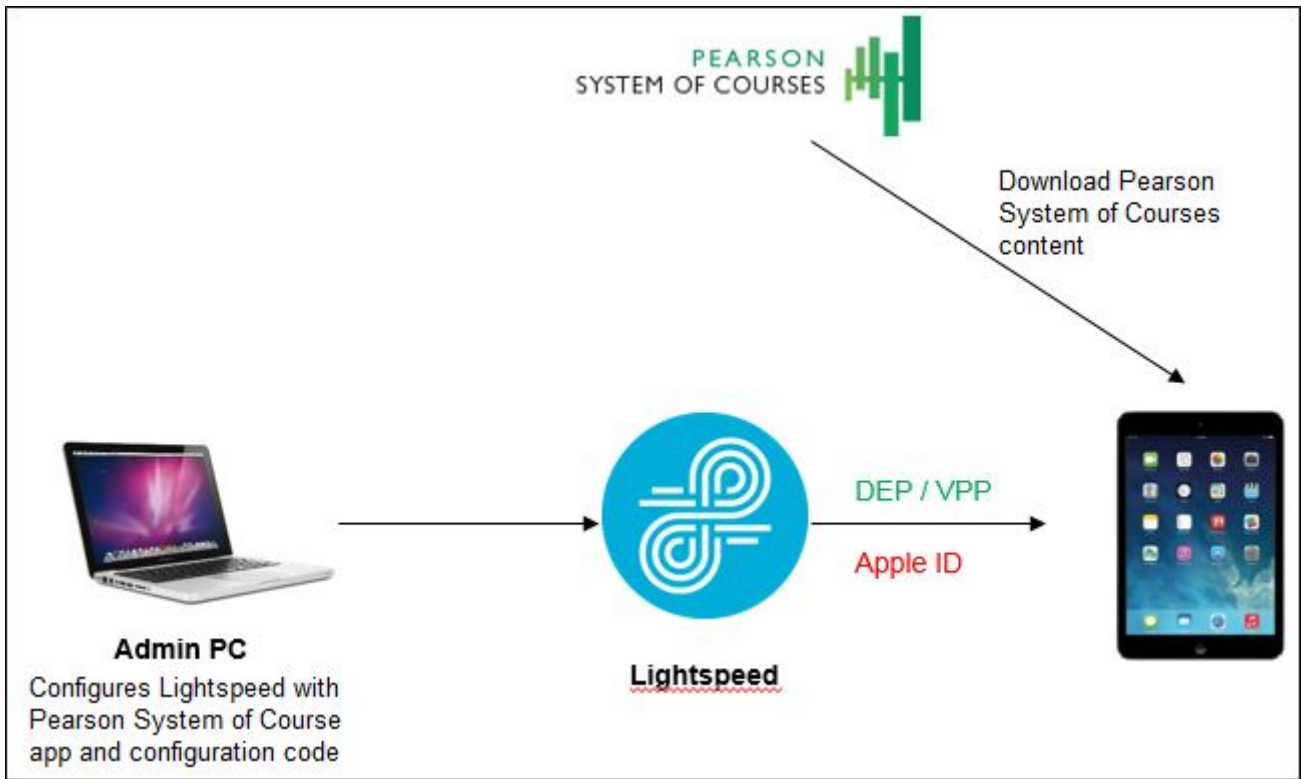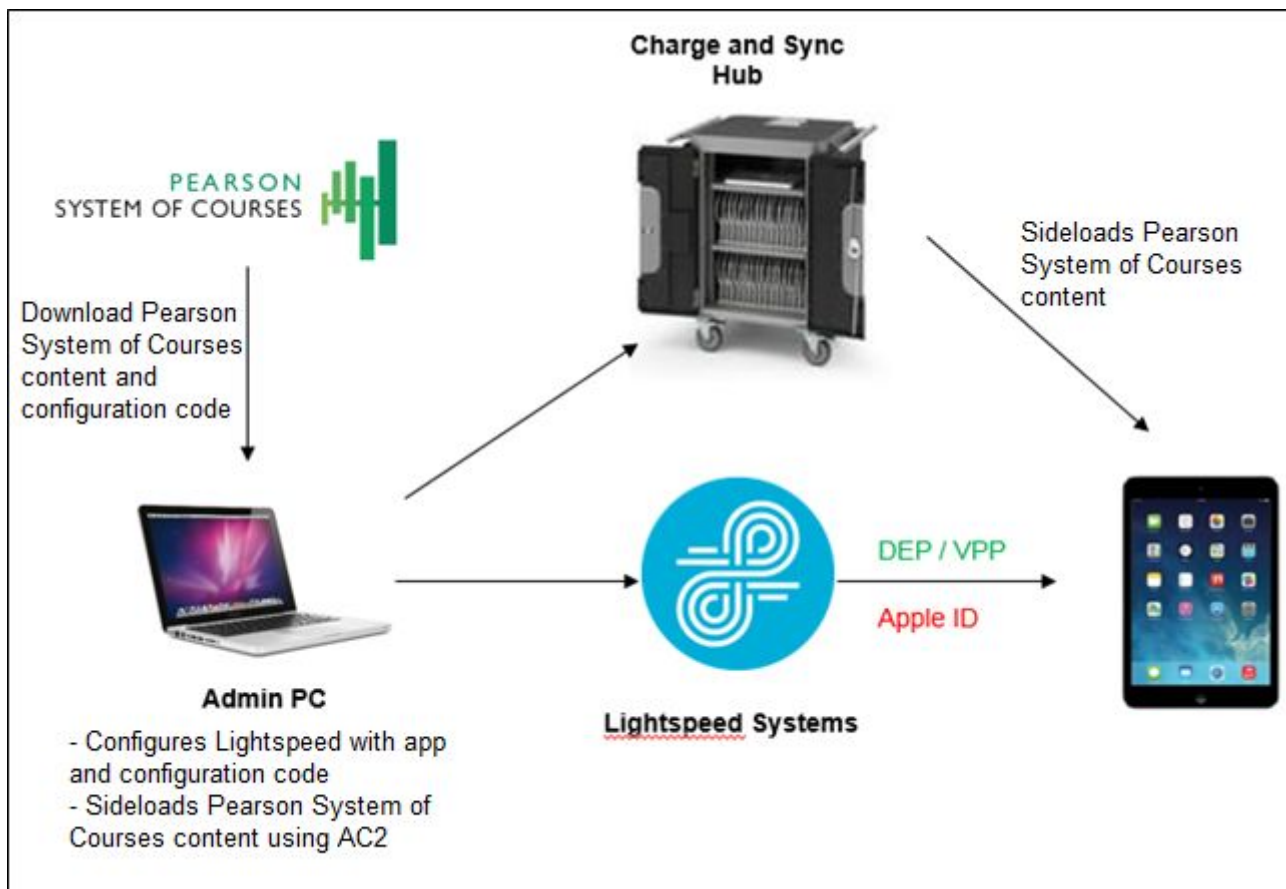
Figure 1

Figure 2

Recommendations and Assumptions

To enable this process, the following recommendations should be met:
- Strong network connectivity recommended for enabling over-the-air deployment of Pearson System of Courses content
- Apple Volume Purchase Program Account with all user Apple IDs enrolled (Recommended)
  or access to all user Apple IDs available for users (Not recommended)
- iPads are supervised via Device Enrollment Program or Apple Configurator 2

This process was created with the following assumptions:
- Lightspeed Systems MDM
- iOS 10.x or higher
- OSX El Capitan (required to run Apple Configurator 2 for side-loading)

Process

Pearson System of Courses Deployment Preparation

Supervise Devices

Supervising a device enables the deployment of the Pearson System of Courses App without administrator interaction.

There are two ways to supervise a device: through Apple's Device Enrollment Program (DEP) or through Apple Configurator 2 (AC2). The DEP route is recommended because this requires less setup time.

Apple Device Enrollment Program and Lightspeed

Apple DEP automatically enrolls district owned iPads into your Lightspeed instance out of the box. By leveraging DEP, iPads are supervised and the mobile device management configuration cannot be removed. Configure Apple DEP with Lightspeed by searching for **Apple Device Enrollment Program** on the Lightspeed community website.

Apple Configurator 2 and Lightspeed:

Apple Configurator 2 is a utility which allows you to mass configure iPads over USB using a charge and sync hub. To enable supervision, iPads must be factory reset. Configure Lightspeed and Apple Configurator 2 by searching **Enrolling Devices with Apple Configurator 2**.

Setup Pearson System of Courses App

The Pearson System of Courses app is available in the public Apple App Store.

To seamlessly deploy the app follow the App Setup for VPP instructions below.

Note: You must have a VPP account to use this method.

Or to deploy the app without VPP, you must login to every device with an Apple ID to download the Pearson System of Courses app. Follow the App Setup for Apple ID instructions below.

App Setup for VPP (Recommended)

Visit the Apple Volume Purchase Program to purchase the number of licenses you need for mass deployment.

1. Navigate to https://vpp.itunes.apple.com/
2. Login using your Apple Deployment Program account. Refer to Figure 3.
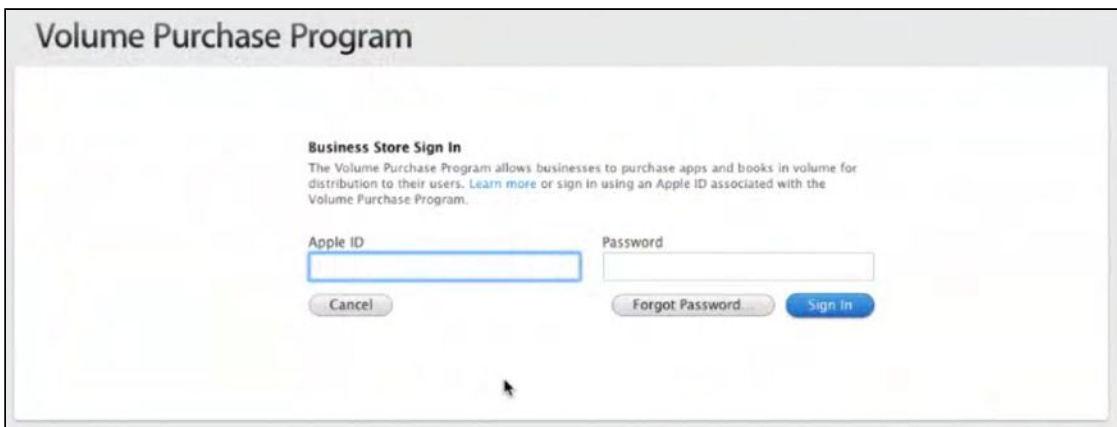

Figure 3

3. Search for Pearson System of Courses. Refer to Figure 4.

Figure 4

4. Click **Pearson System of Courses**.

5. Enter a **Quantity**.
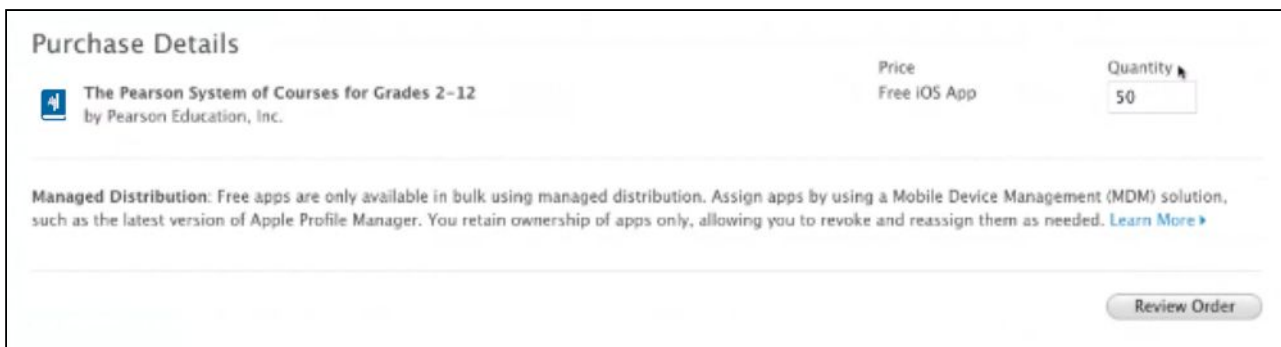
6. Click **Review Order**. Refer to Figure 5.

Figure 5

7. Make sure **Distribution Type** is set to **Managed Distribution** on the Purchase Details screen.

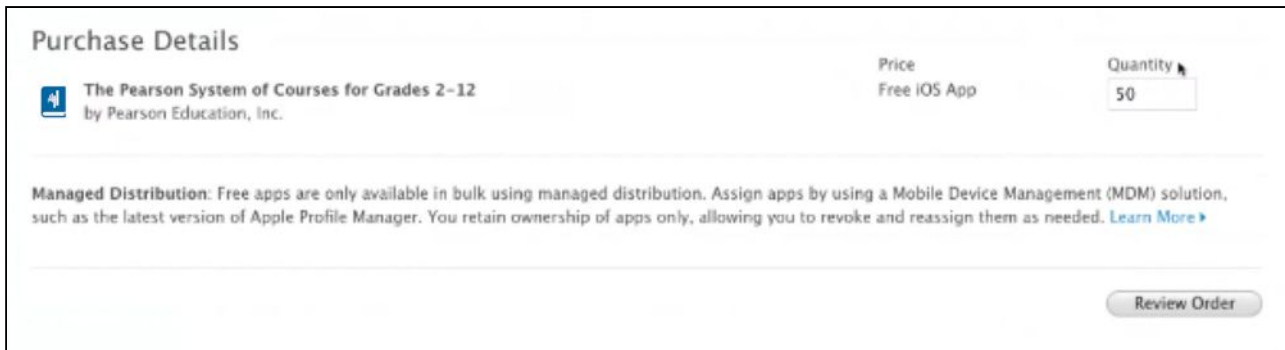8. Click **Place Order**. Refer to Figure 6.

Figure 6

Link VPP to your MDM Solution

1. Navigate to https://vpp.itunes.apple.com/.

2. Login using your Apple Deployment Program account.

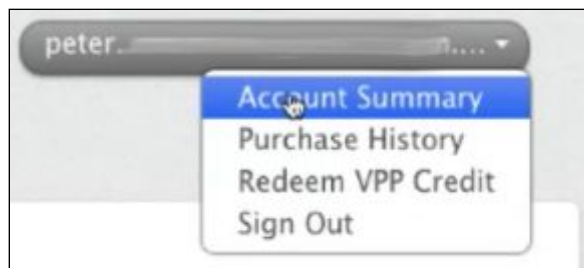3. Click **Account Summary**. Refer to Figure 7.

Figure 7

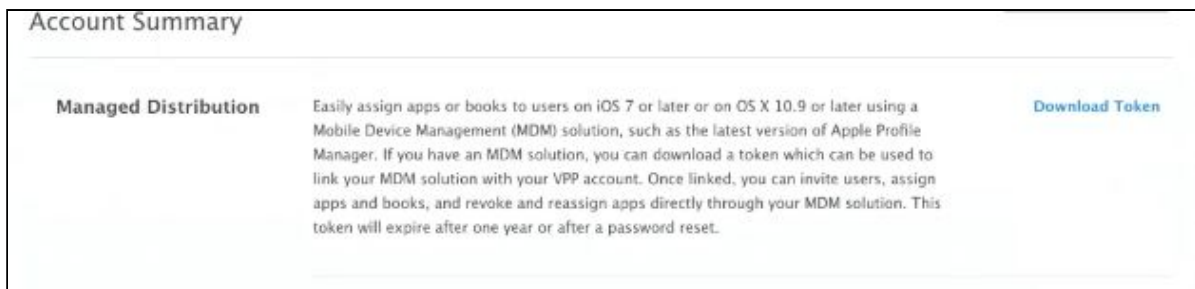4. Click **Download Token**. Refer to Figure 8.

Figure 8

5. Navigate to and login to the Lightspeed console.

6. Click **Mobile Manager**.

7. Click your organization.

8. Click **Settings**.

9. Click **Managed Distribution**.

10. Enter a name (i.e LightspeedVPP) for the VPP instance.

11. Click **Create Service**.

12. Copy and paste the .vpptoken into the **sToken** field box.

    a. Right-click the .vpptoken file.

    b. Open with Notepad. Refer to Figure 9.
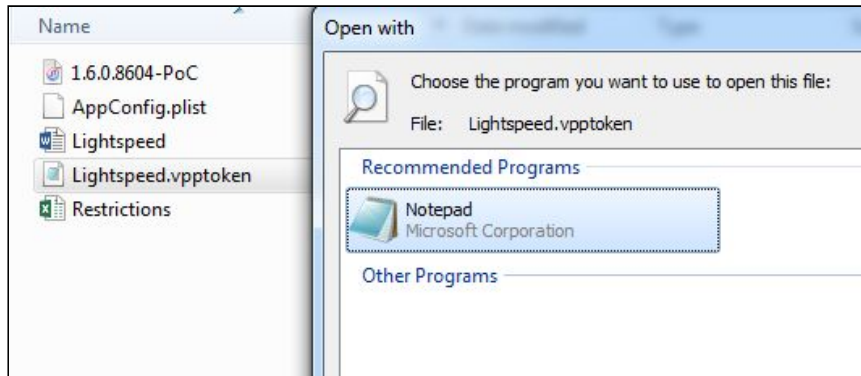

Figure 9

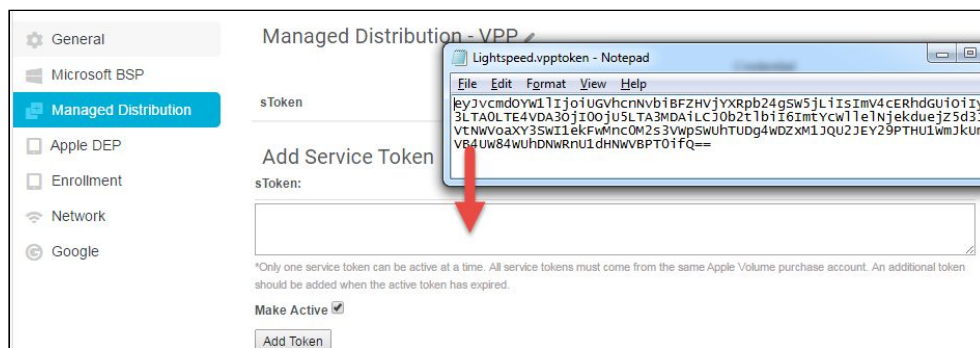   c. Copy the text and paste it into the **sToken** field box. Refer to Figure 10.

Figure 10

13. Click **Add Token**.

Set Up App in MDM with VPP

1. Create a .plist configuration file:
   a. Open Notepad.
   b. Copy and paste the following text into the textbox (Replace "CONFIGCODE" with the school configuration code provided to you by Pearson):

```
<dict>
<key>EnvironmentIdentifier</key>
<string>CONFIGCODE<string>
</dict>
```

   c. Save the file as **configcode.plist**.
2. Navigate and login to the Lightspeed console.
3. Click **Mobile Manager**.
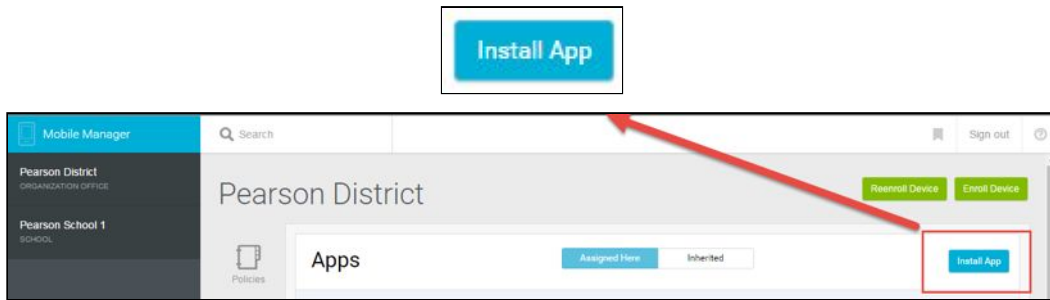4. Click **Apps**.
5. Click **Install App**. Refer to Figure 11.

Figure 11

6. In the drop-down, click **Managed Distribution**.
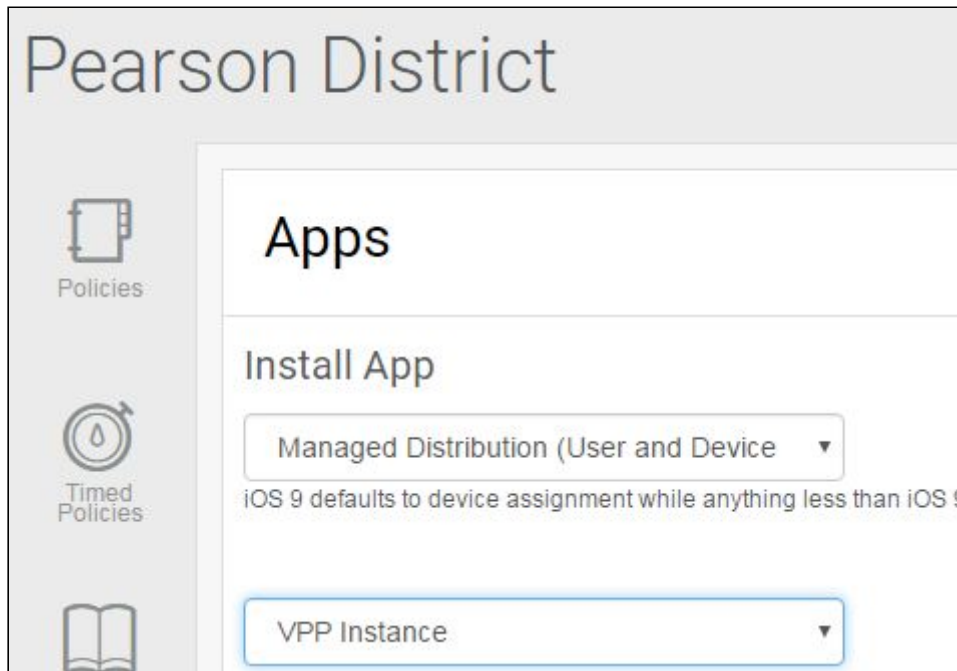7. In the next drop-down, find your VPP Instance you had configured earlier. Refer to Figure 12.

Figure 12

8. Search for **Pearson System of Courses**.
9. Click **Install** next to Pearson System of Courses app. Refer to Figure 13.

Figure 13

10. Select the **Pearson System of Courses** app then select **Configuration**. Refer to Figure 14.
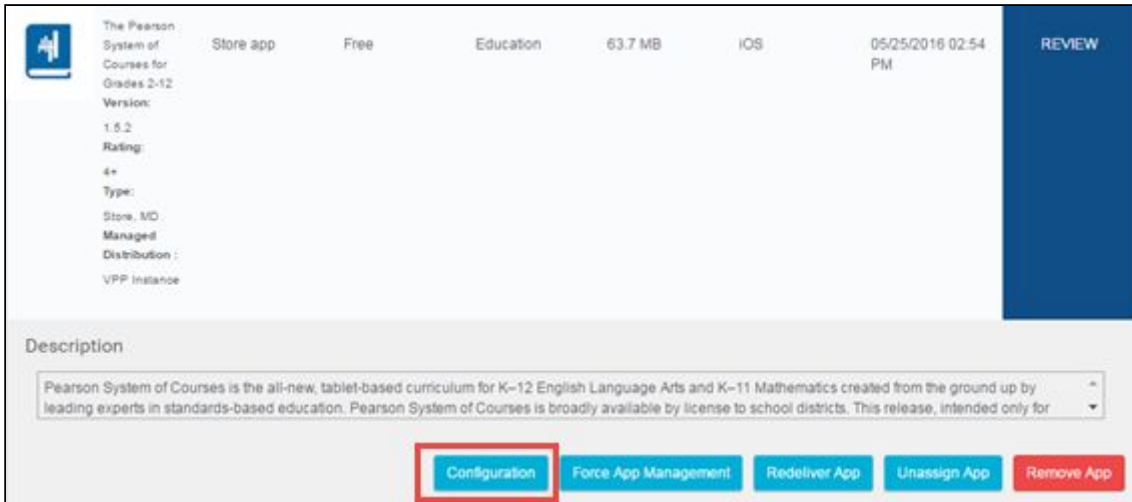

Figure 14

11. To add the configuration of the application, upload the configcode.plist file that was created in step 1.

App Setup for Apple ID

If you are not following the App setup with VPP steps, then please follow these steps below to complete the app setup using Apple ID.

Set Up App in MDM

1. Create a .plist configuration file.
   a. Open Notepad.
   b. Copy and paste the following text into the textbox (Replace CONFIGCODE with the configuration code provided to you by Pearson).
   ```
   <dict>
   <key>EnvironmentIdentifier</key>
   <string>CONFIGCODE</string>
   </dict>
   ```
   c. Save the file as configcode.plist.
2. Navigate and login to Lightspeed.
3. Click **Mobile Manager**.
4. Click **Apps**.
5. Click **Install App**. Refer to Figure 15.

Figure 15

6. To locate and add the public Pearson System of Courses app:
   a. Click **Store** in the first drop-down. Refer to Figure 17.
   b. Search **Pearson System of Courses**.
   c. Select the **Pearson System of Courses** app (K-1 or 2-12).

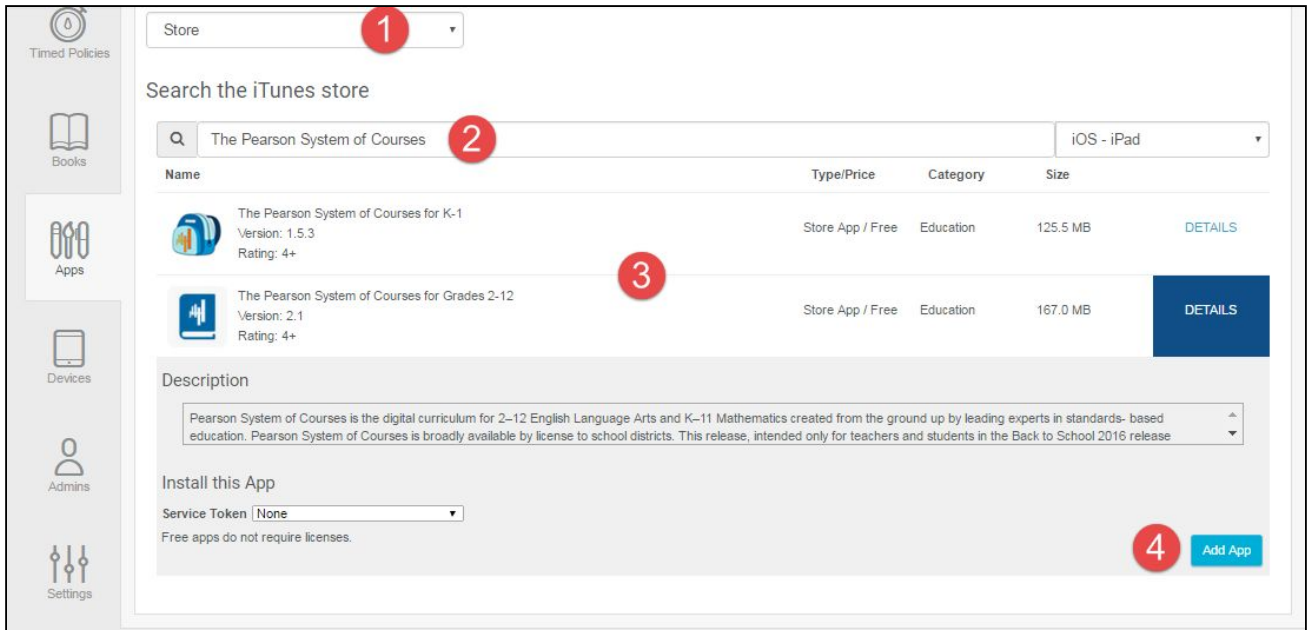d. Click **Add App** next to Pearson System of Courses app. Refer to Figure 16.

Figure 16

7. Select the **Pearson System of Courses** app (K-1 or 2-12) then select **Configuration**. Refer to Figure 17.
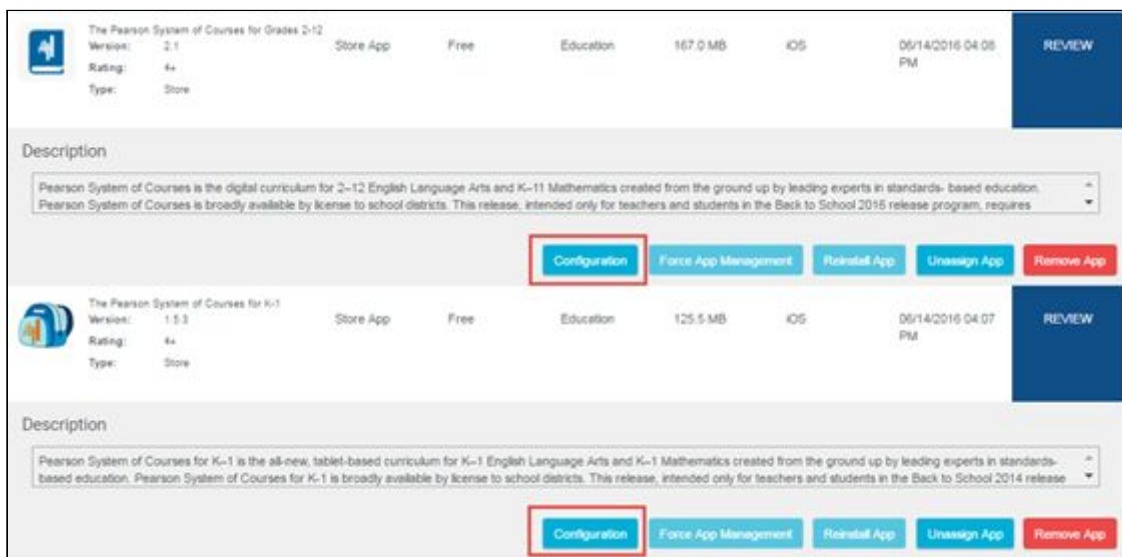

Figure 17

8. Upload the configcode.plist file that was created in step 1. Refer to Figure 18.
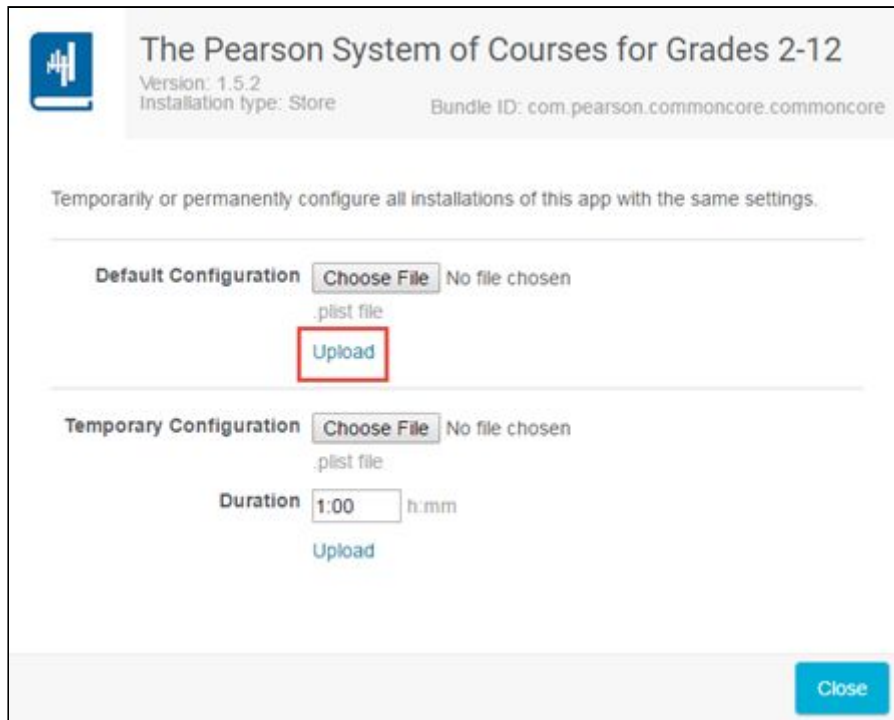
Figure 18

Profiles Impacting Pearson System of Courses App Deployment

Certain iOS restrictions impact the deployment of the Pearson System of Courses app. Ensure your Profile Restrictions are configured properly:

1. Click the group you wish to add profile restrictions to.
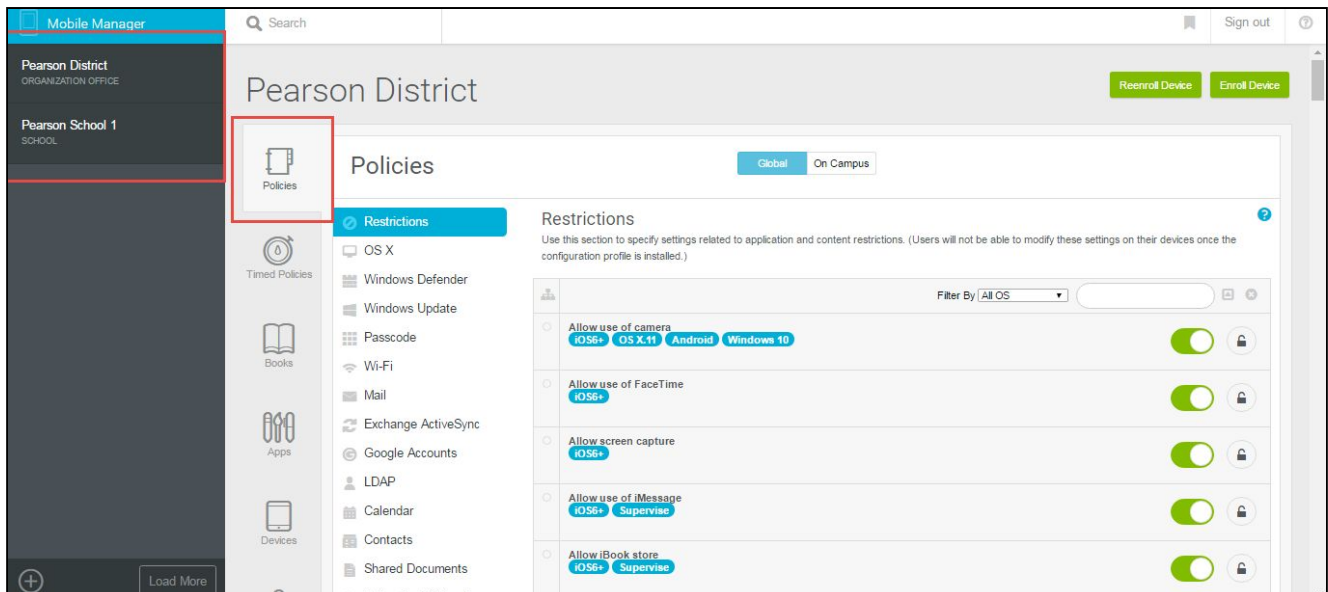2. Click **Policies**. Refer to Figure 19.

Figure 19

3. Click **Restrictions**, and ensure the restrictions below are configured to their default settings. Refer to Table 2.

Restriction	Setting	Comment
Allow installing apps using Apple Configurator 2 and iTunes	✓	To allow break fix scenarios using Apple Configurator 2
Require iTunes password for all purchases	✗	This will prompt for an Apple ID login even when using VPP if turned on
Allow trusting new enterprise app authors	✓	If using an in-house IPA that needs to be trusted before running
Allow modifying device name (Supervised only)	✓	In order to change device name for inventory / organizational purposes
Allow pairing with non-Configurator hosts (Supervised only)	✓	To allow break fix scenarios using computers other than the Apple Configurator mac

Table 2

Pearson System of Courses Deployment

In the deployment phase, there are two main steps: installing the Pearson System of Courses app and transferring the Pearson System of Courses content.

Install Pearson System of Courses App

Depending on your supervision state and whether the app is deployed with VPP, there are various expected behaviors when installing Pearson System of Courses.

Recommended: Supervised and VPP

1. Activate devices (turn on new devices; or restore old devices).

2. When prompted, on the iPad(s) login using Lightspeed credentials or follow prompts to complete setup with Apple Configurator 2. Refer to Figure 20.
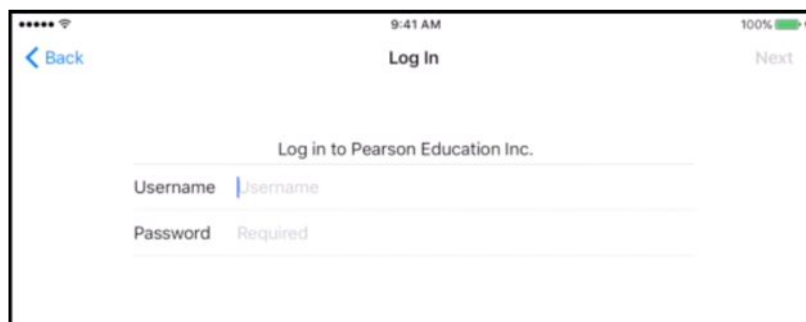

Figure 20

3. Activate iPad.

4. Pearson System of Courses app starts downloading automatically and installs onto the devices with zero touch.

Supervised and No VPP

1. Activate devices (turn on new devices; or restore old devices).

2. When prompted, on the iPad login as user associated with Lightspeed or follow prompts to complete setup with Apple Configurator 2. Refer to Figure 21.
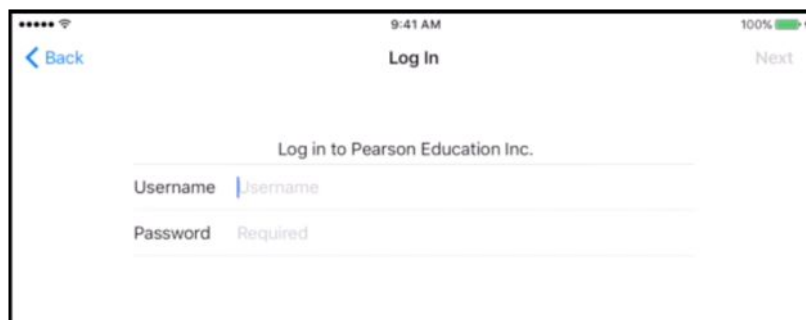

Figure 21

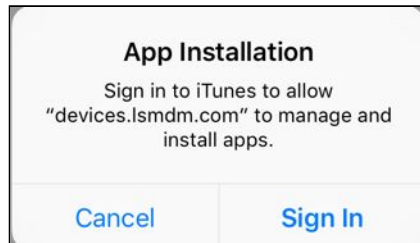3. iTunes login prompt appears, login using your Apple ID. Refer to Figure 22.

App Installation

Sign in to iTunes to allow
"devices.lsmdm.com" to manage and
install apps.

Cancel | Sign In

Figure 22

The Pearson System of Courses app should now be installed.

Unsupervised and VPP

1. Login to the Lightspeed console.
2. Select **Mobile Manager**.
3. Navigate to the organization you have the VPP application assigned to.
4. Select **Enroll Device**. Refer to Figure 23.

Enroll Device

Figure 23

5. Enter the Individual Enrollment URL into Safari on the iPad. Refer to Figure 24.

Individual Enrollment
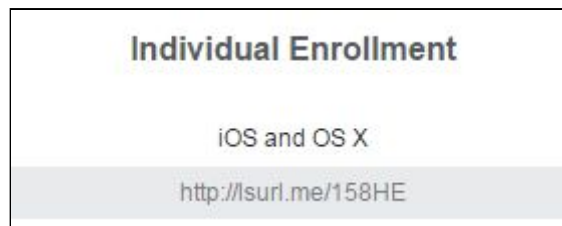
iOS and OS X

http://lsurl.me/158HE

Figure 24

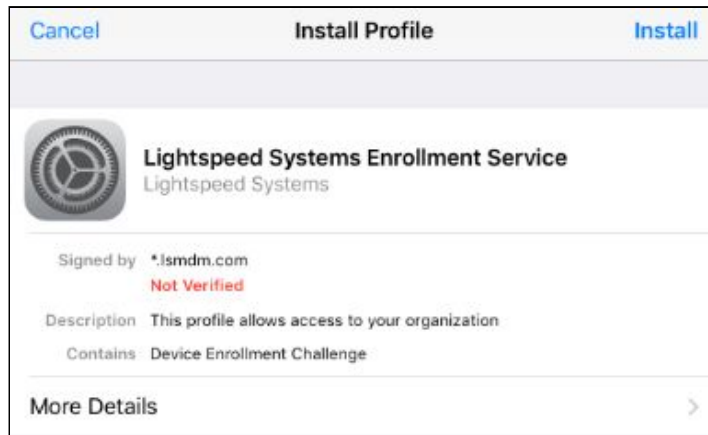6. Click **Install**. Refer to Figure 25.

Figure 25

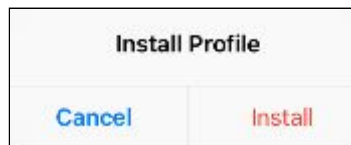7. Click **Install**. Refer to Figure 26.

Figure 26

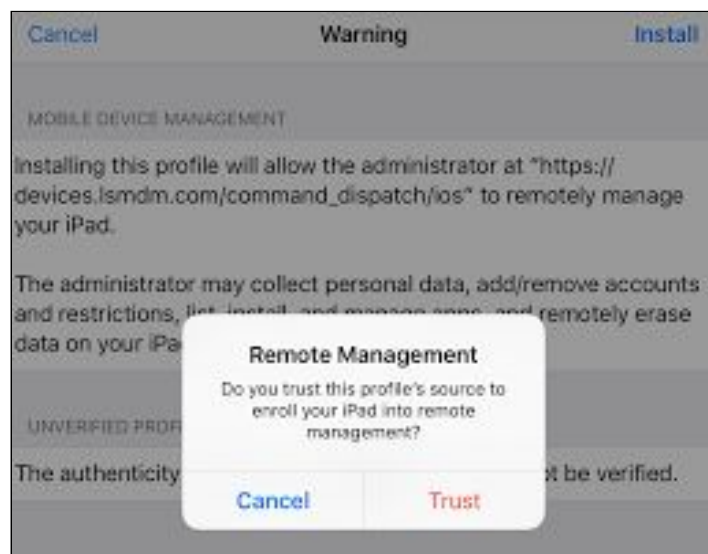8. Click **Install**.

9. Click **Trust**. Refer to Figure 27.

Figure 27

10. Restrictions automatically take effect.

11. App Installation popup appears, click **Install** to install Pearson System of Courses app. Refer to Figure 28.
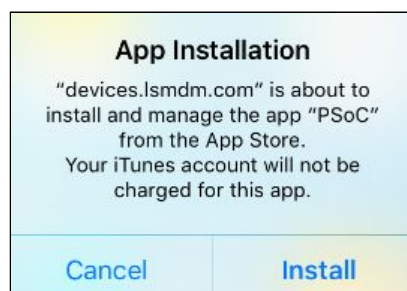
The Pearson System of Courses app should now be installed.

Unsupervised and No VPP

1. Login to the Lightspeed console.
2. Select **Mobile Manager**.
3. Navigate to the organization you have the VPP application assigned to.
4. Select **Enroll Device**. Refer to Figure 29.

Figure 29

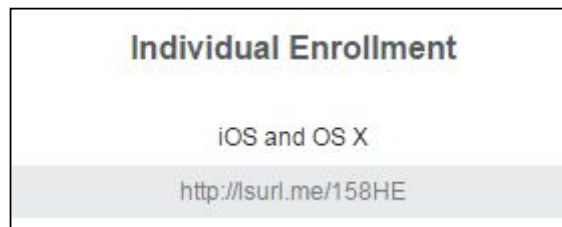5. Enter the Individual Enrollment URL into Safari on the iPad. Refer to Figure 30.

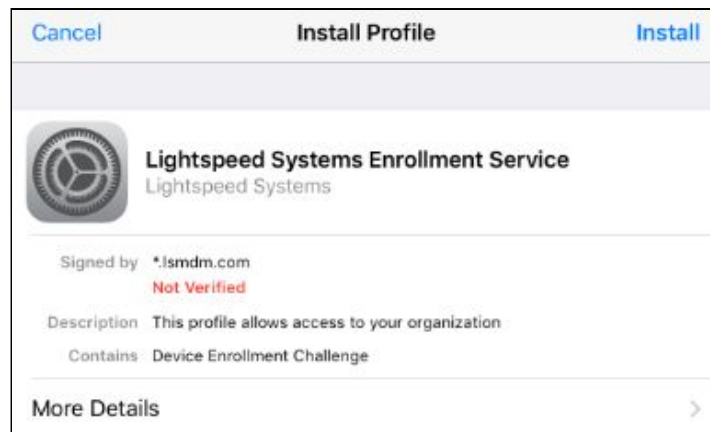
Figure 30

6. Click **Install**. Refer to Figure 31.

Figure 31

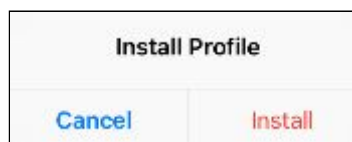7. Click **Install**. Refer to Figure 32.

Figure 32

8. Click **Install**.

9. Click **Trust**. Refer to Figure 33.
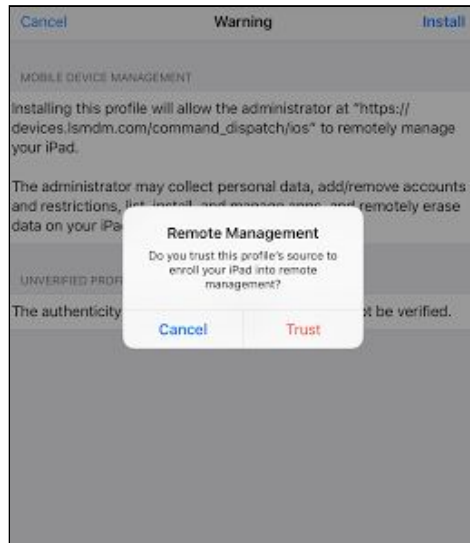

Figure 33

10. Restrictions automatically take effect.

11. iTunes login prompt appears, login using Apple ID. Refer to Figure 34.
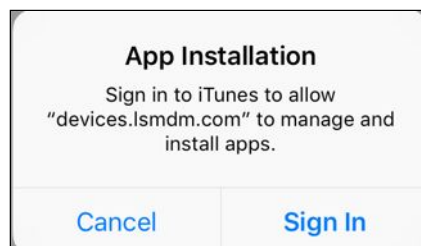

Figure 34

12. App Installation popup appears, click **Install** to install Pearson System of Courses app. Refer to Figure 35.
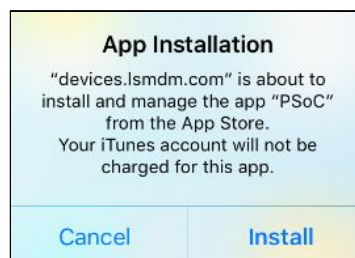

Figure 35

The Pearson System of Courses app should now be installed.

Transfer Pearson System of Courses Content

There are two ways to transfer Pearson System of Courses content onto the devices.

Transferring Over the Air Fully (2-12 Pearson System of Courses App) requires less IT administrator interaction, however calls for longer download times and requires a reliable network connection with a recommended minimum of 5 Mbps per device.

Transfer Content Using Sideload requires more dedicated time from the IT administrators

to oversee the content transfer and extraction process.

Over the Air Fully (2-12 Pearson System of Courses App)

1. Launch Pearson System of Courses app.

2. Enter user credentials for an unsectioned Pearson System of Courses user

    a. **Note:** Unsectioned users are those that are not aligned to any particular course. In order to choose to download all lesson content for a grade fully, one must login as an unsectioned user. Sectioned users are those that are aligned to a particular course, such as Grade 8 ELA and Math. When logging in with a sectioned user the Pearson System of Courses app will automatically start downloading just the course information for the course(s) the user is sectioned to.

3. Select desired grade. Refer to Figure 36.

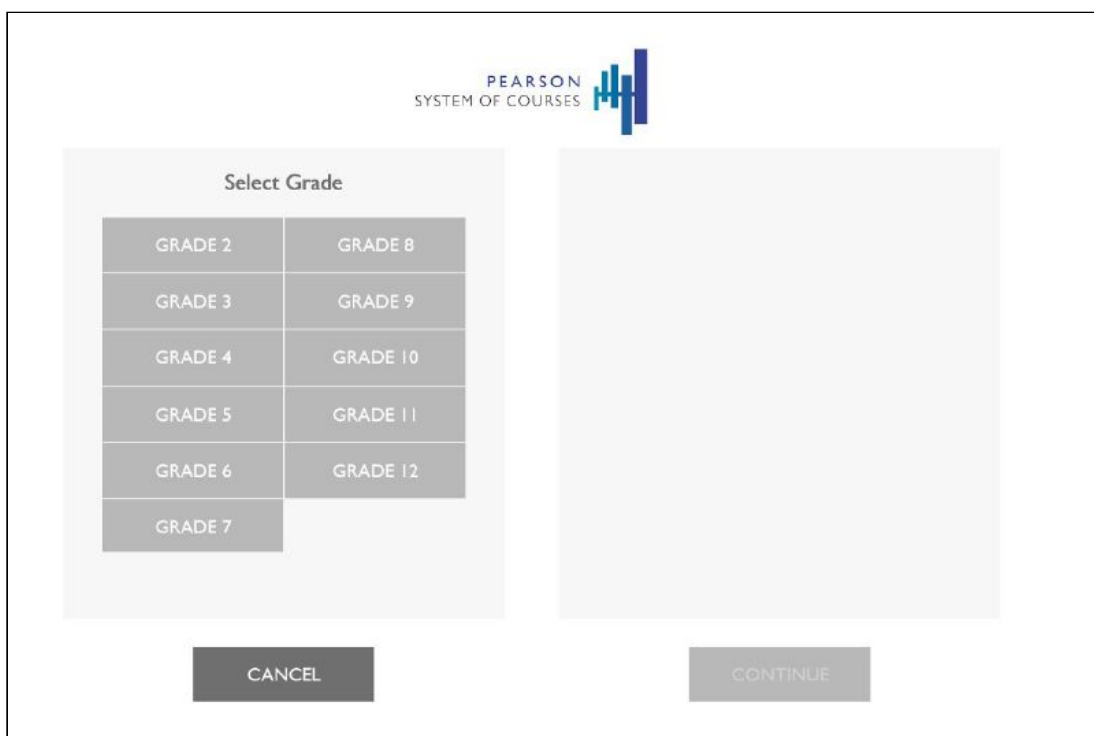   a. **Note:** Only one grade can be selected at a time.

Figure 36

4. Select the desired subject for ELA and/or Math.

5. Select **Yes** to download all lessons now (each subject is distinct, and it is possible to select yes or no for each subject).

    a. **Note:** Downloading all lessons at once may take an estimated hour and a half per grade assuming 5 Mbps per device (the lowest recommended bandwidth per device).

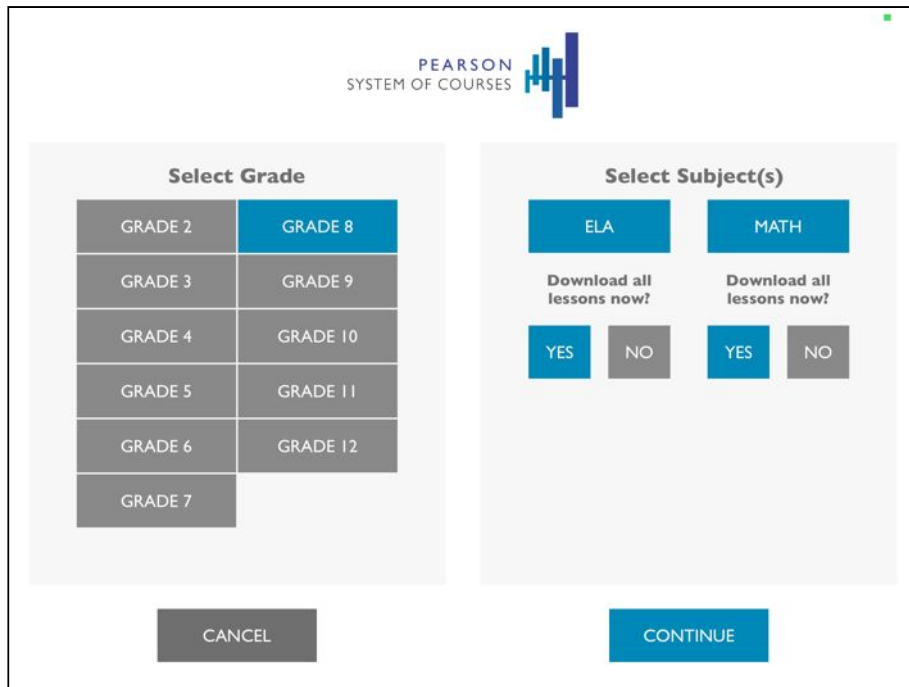6. Click **Continue**. Refer to Figure 37.

Figure 37

7. After tapping Continue, all Pearson System of Courses content for the selected grades and subjects will be downloaded (all units and lessons). The Pearson System of Courses app will proceed to the Dashboard after all downloads have been completed. Refer to Figure 38.
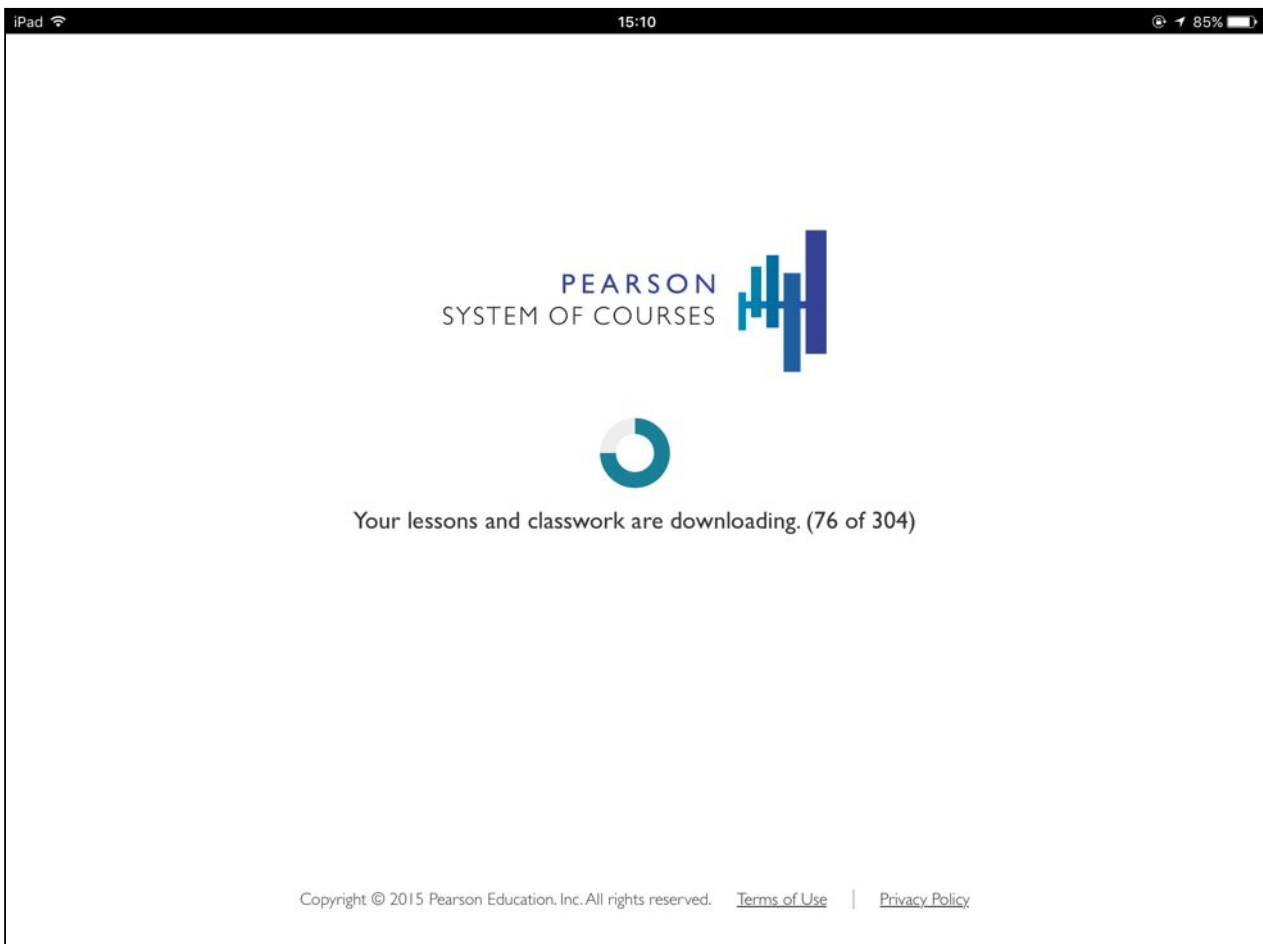
Figure 38

Over the Air Fully (K-1 Pearson System of Courses App)

Note: There is currently no option to download all units fully like in the 2-12 app. To accomplish this, the user must select each unit manually.

1. Launch K-1 Pearson System of Courses app.
2. Enter user credentials for a K-1 Pearson System of Courses user.
3. Select the desired units based on desired the grade you wish to download. Refer to Figure 39.
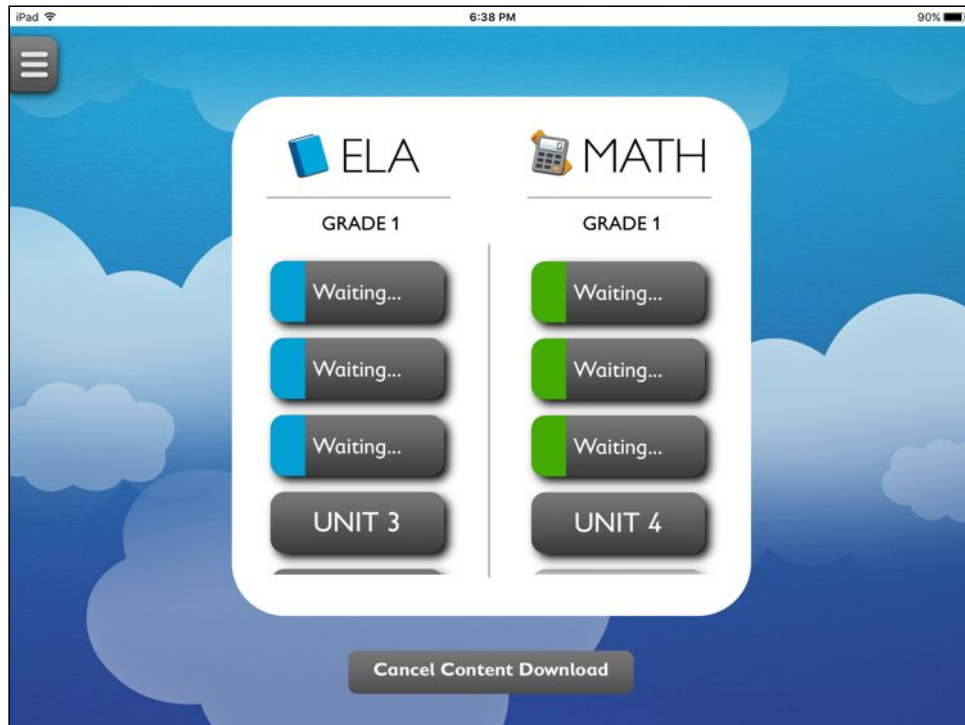

Figure 39

4. Once complete, the downloaded units will be highlighted. Refer to Figure 40.
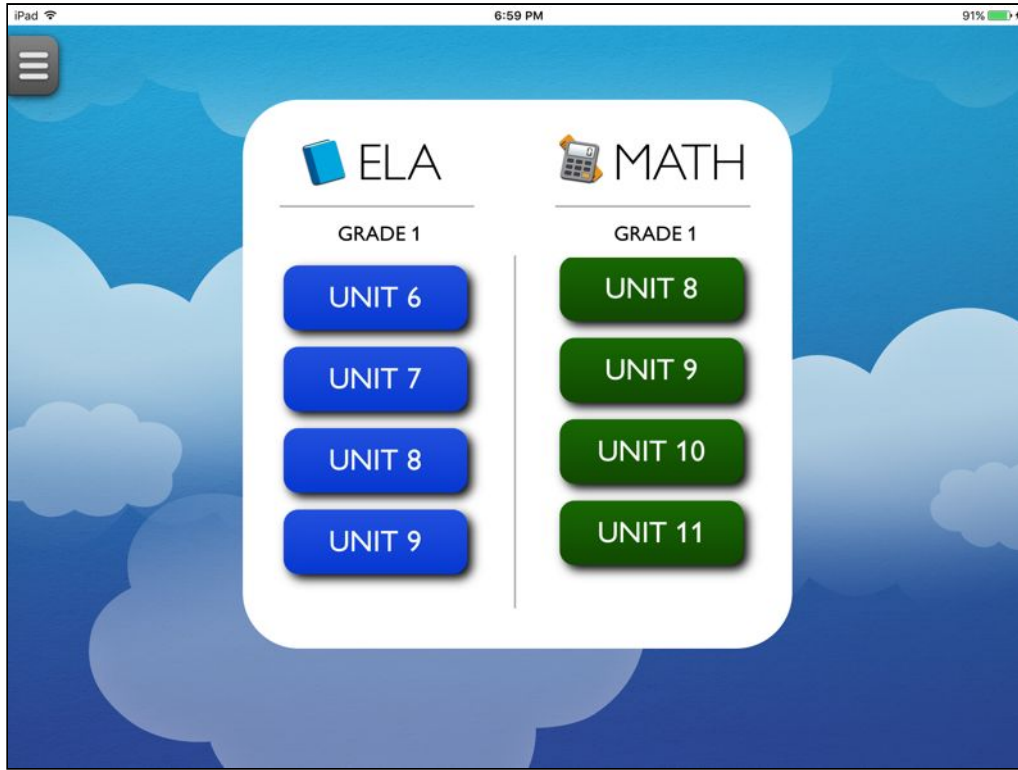
Figure 40

Transfer Content Using Sideload

1. Login to the Pearson System of Courses content download website at
   https://ccsoc-content-download.azurewebsites.net/.
2. Select **CUSTOM (FOR PARTNERS)** and use the login provided to you by your Pearson
   contact. Refer to Figure 41.

Figure 41

3. Download the sideload Packages: Refer to Figure 42.
   a. Select desired grades
   b. Save the files to an accessible folder on your Mac computer.

Grade	ELA	Last Modified	Size (bytes)	MATH	Last Modified	Size (bytes)
9	ELA	6/3/2016		n/a	n/a	n/a
10	ELA	6/3/2016		n/a	n/a	n/a
11	ELA	6/3/2016		n/a	n/a	n/a
12	ELA	6/3/2016		n/a	n/a	n/a

Figure 42

4. Connect all iPads to a Mac computer through a sync and charge hub.
5. Launch Apple Configurator 2 on the Mac.
6. Select all iPads (command + a).
7. Right click any iPad.
8. Click **Add**.
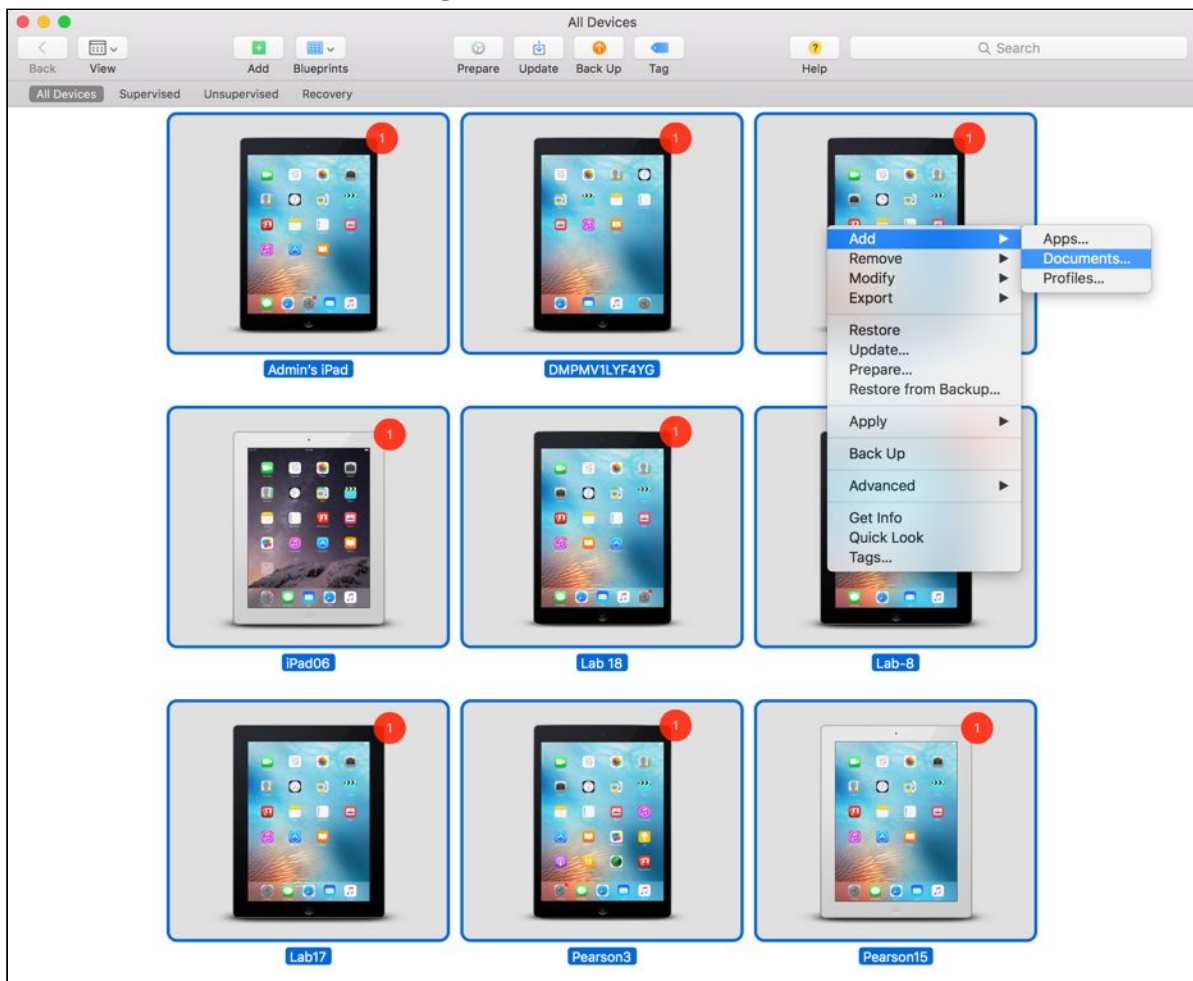9. Click **Documents**. Refer to Figure 43.

Figure 43

10. Click **Pearson System of Courses** app to sideload the Pearson System of Courses content onto.
11. Click **Choose**.
12. Browse and select all.ccsoc files you wish to sideload.
13. Click **Open**.
14. Content will transfer onto all devices.
15. On each iPad, launch the Pearson System of Courses app to extract the Pearson

System of Courses content

16. The Pearson System of Courses content will extract and this will take 15-30 minutes per grade level installed. Refer to Figure 44 for 2-12 Pearson System of Courses app and refer to Figure 45 for K-1 Pearson System of Courses app.
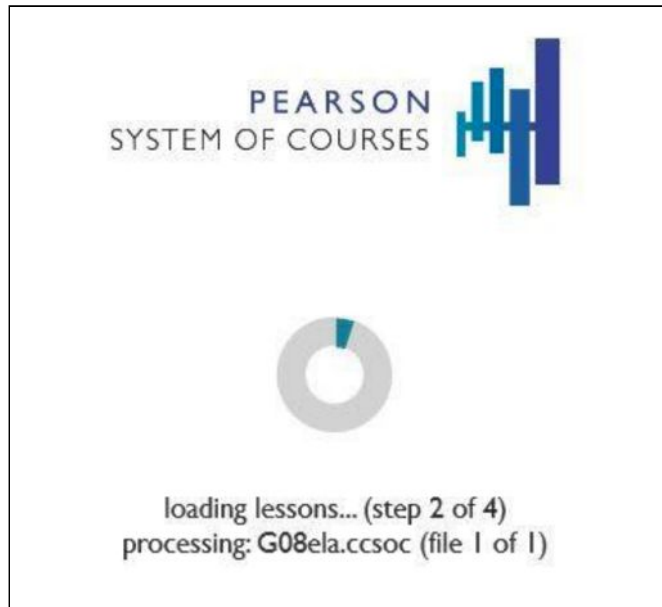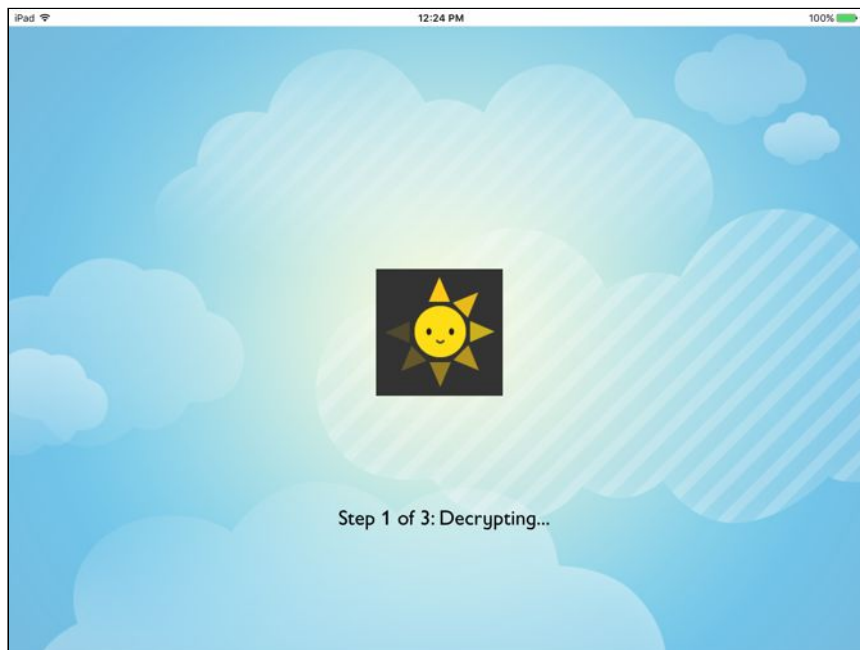

Figure 44

Figure 45

17. Once the content is extracted, the devices are provisioned and ready to be used by students.

Update the Pearson System of Courses App

The Pearson System of Courses app may be periodically updated to improve performance and reliability.

If the Pearson System of Courses app has been deployed using VPP, it is recommended to update the Pearson System of Courses app using Lightspeed to remove the need for Apple ID Credentials.

If the Pearson System of Courses app has been deployed without using VPP, then Apple ID credentials are necessary and the app may be updated using the Apple App Store.

Update a VPP App

1. Navigate and login to the Lightspeed console.
2. Click your organization on the left panel.
3. Click **Apps**.
4. Select the **Pearson System of Courses** app.
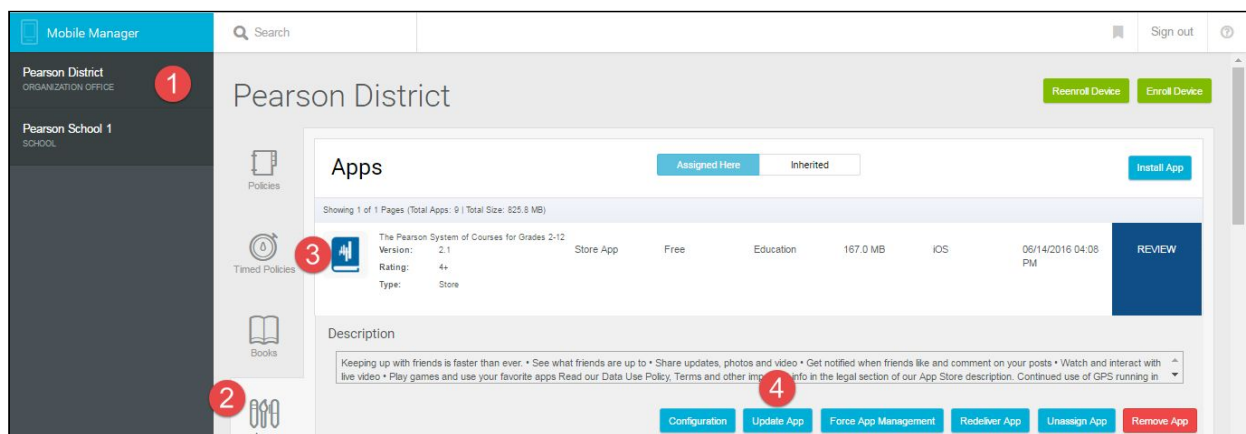5. Click **Update App**. Refer to Figure 46.

Figure 46

Update a Non-VPP App

1. Make sure that Automatic App Updates is set to **On** on each device. Refer to Figure 42.
   a. Navigate to device settings.
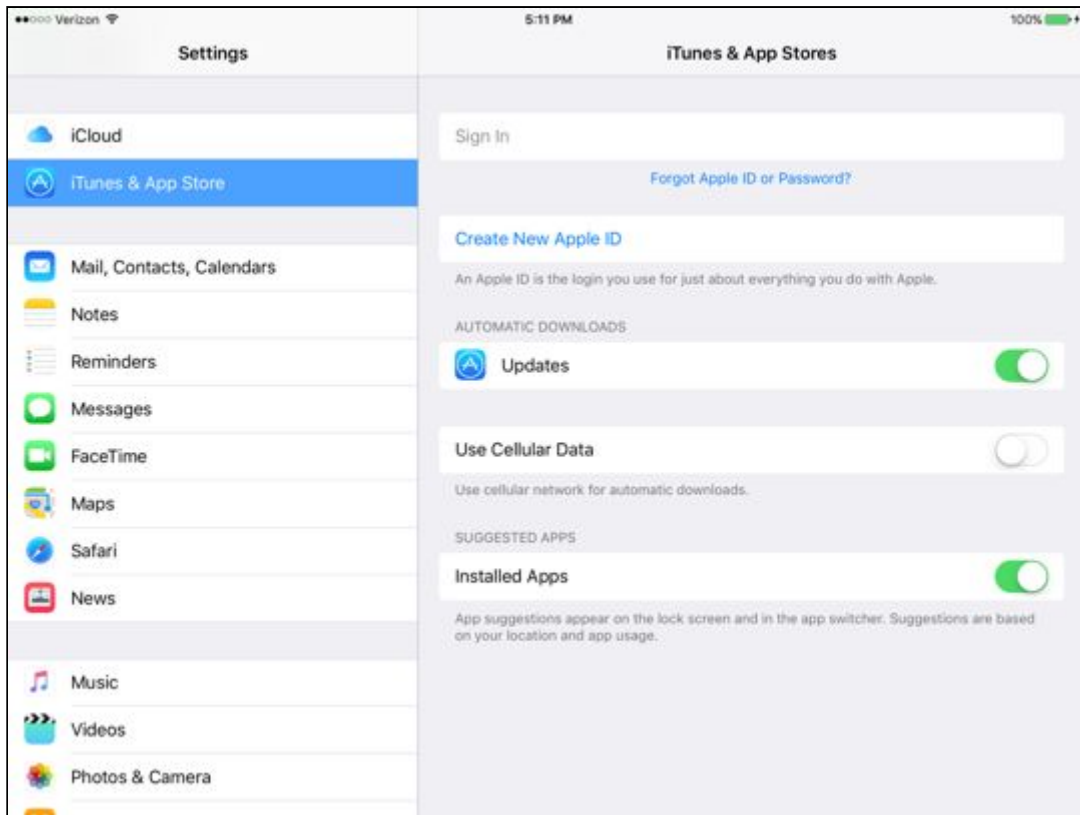   b. Click **iTunes & App Store**. Refer to Figure 47.

Figure 47

The Pearson System of Courses app will be automatically updated when a new update is released to the Apple App Store if the device is signed in with an Apple ID.

Uninstall the Pearson System of Courses App

1. Login to Lightspeed.
2. Click **Mobile Manager**.
3. Click the group you wish the uninstall the app from.
4. Click **Apps**.
5. Click the **Pearson System of Courses** app,
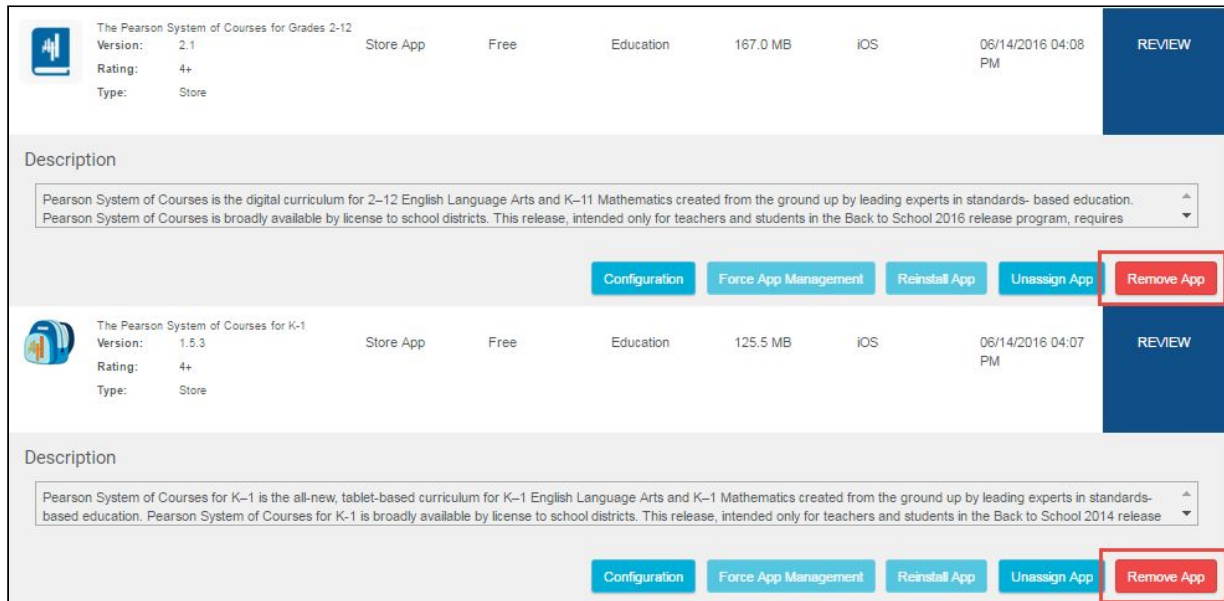6. Click **Remove App**. Refer to Figure 48.

Figure 48

7. Click **OK**. Once the devices syncs again with the console, the app will be removed. Refer to Figure 49.
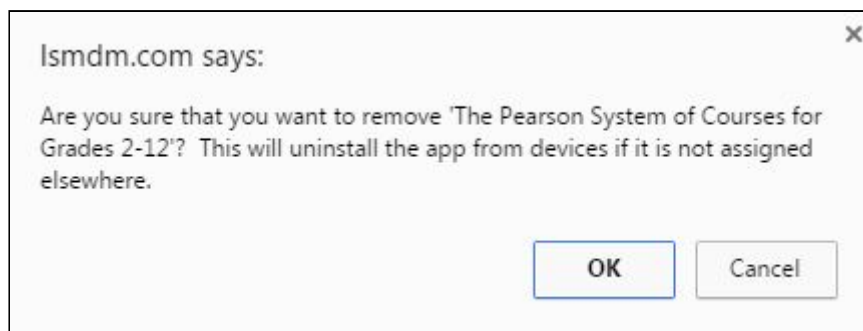

Figure 49

Appendix

<u>XML code to auto-populate config code:</u>
(Replace "CONFIGCODE" with your specific configuration code).

```
<dict>
<key>EnvironmentIdentifier</key>
<string>CONFIGCODE</string>
</dict>
```