

# Randy Saeks

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He has presented at MacWorld / MacIT, MacTech and Penn State. Randy is also a Google for Education Certified Trainer.

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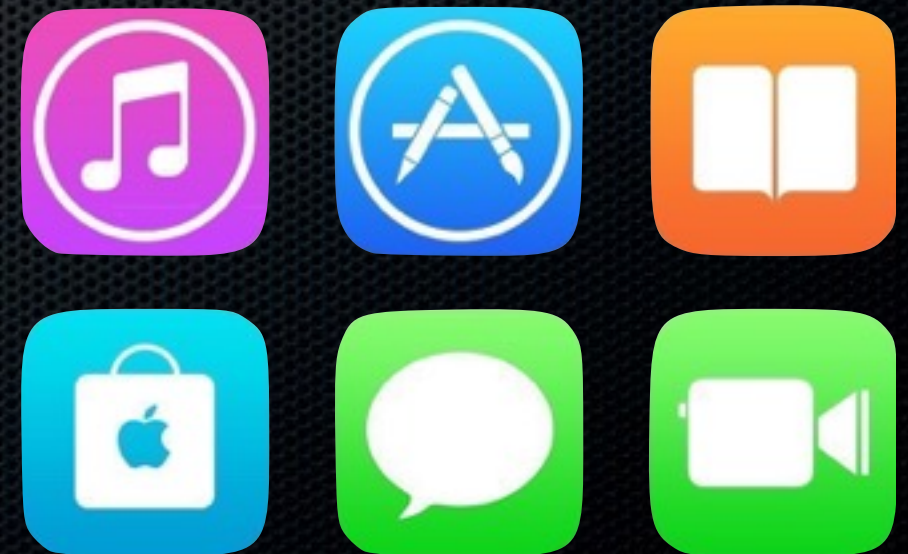


# VPP, DEP, and Under 13: How New Apple ID Requirements Impact You and Your Clients



# What's Apple ID's purpose?

- An Apple ID is your user name for everything you do with Apple
- Services include: iTunes & App Store, iCloud, iMessage, Online Store, Genius Bar appointments, Developer Portal, GSX, Apple Support website access... *and more.*





# The “and more” is the part we need to talk about

Apple Deployment Programs



Apple Push Notification Services (APNS)



# Consumer Apple IDs vs. Institutional/Business Apple IDs



Past	Present	Future
VPP Codes	VPP Codes Managed Distribution	VPP Codes Managed Distribution
“Institutional” Apple ID	Licenses Assigned to users	Licenses Assigned to Devices
Manage Apple IDs	Apple ID required but irrelevant	What Apple ID?



# Future

<http://www.apple.com/education/it/>

- Assign and distribute apps directly to iPad and Mac, no Apple ID required
- Prompt Users to Update iOS (MDM & DEP Req'd)
- Apple Configurator 2 (DEP Support, iCloud)





# Deployment Programs

## Getting Started

<https://deploy.apple.com>

### DEP

[https://deploy.apple.com/enroll/files/pdf/dep\\_plus\\_admin\\_all.pdf](https://deploy.apple.com/enroll/files/pdf/dep_plus_admin_all.pdf)

### VPP - EDU

<http://www.apple.com/legal/internet-services/itunes/volume/ww/>

### VPP - Business

<http://www.apple.com/legal/internet-services/itunes/vppbusiness/ww/>



# Deployment Programs

## Getting Started

<https://deploy.apple.com>

- Select enroll now
- Have the following ready
  - A brand-new Apple ID
  - Verification Contact
  - Business Info (D-U-N-S number for business)
  - Apple Customer Number (Buy direct from 🍏)
  - Reseller ID (Buy from reseller[s])
  - Patience





# Deployment Programs IDs

**Agent Account**  
deployment@domain

Top-Level Account  
Requires 2-Step Authentication  
Must be a new Apple ID

**Admin Account**  
user@domain

Multiple accounts allowed  
Access to granted to different programs  
Must be a new Apple ID

**End-User Account**  
user@domain

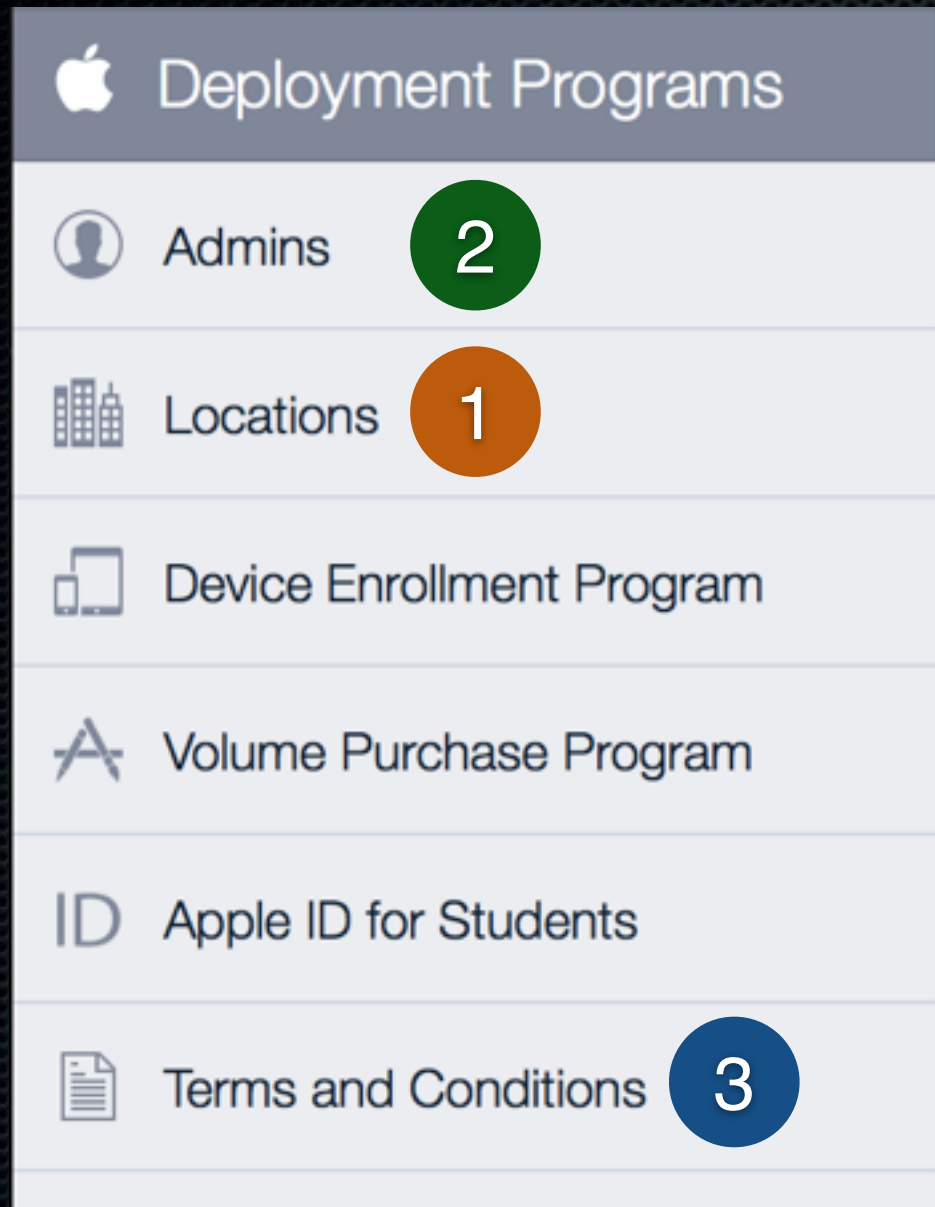
Not required for Configurator Shared Devices  
Single-User Devices should have Apple ID

**ID for Stu Teacher**  
user@domain

Allows user to reset student passwords  
<https://edu-appleid.apple.com/teacher>



# Deployment Programs: Setup



- 1 Setup your locations**  
Allows you to build a structure that makes sense and matches your organization
- 2 Create Additional Admins**  
Allows you to assign privileges to others via program and location
- 3 Accept Terms & Conditions**  
You accept OS Terms & Conditions on behalf of your users



# Deployment Programs: Setup

## Add Admin Account

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First Name

Last Name

Work E-mail [?](#)

Allow access to:

☐ Device Enrollment Program

☐ Volume Purchase Program

☐ Apple ID for Students

Location

[v](#)

Allow Admin to:

☐ Create and Edit Admins

Cancel

Add

2

Create Additional Admins



# Device Enrollment Program





# Device Enrollment Program

- Asserts your ownership of device (institution owned)
- Kicks-in at device activation
- Wireless Supervision
- Gives additional management capabilities





# Device Enrollment Program

☒ **Require Authentication**  
Require the user to provide username and password on mobile devices with i

**Authentication Message**  
Message to display to the user

Please login with your Glencoe  
Network Username and Password.

☒ **Supervise Devices**  
Devices will be supervised

☒ **Pairing**  
Allow devices to connect to OS X computers

☒ **Disallow MDM Profile Removal**  
Prevent the user from removing the MDM profile

☒ **Make MDM Profile Mandatory**  
Require the user to apply the MDM profile

**Steps to Skip**  
The selected items will be skipped in the Setup Assistant

☐ **Location**  
User will not be presented with the Location Services screen

☐ **Restore**  
User will not be presented with the Restore options screen

☐ **Apple ID**  
User will not be presented with the Apple ID screen

☒ **Terms of Service**  
User will not be presented with the Terms of Service screen

☒ **Siri**  
User will not be presented with the Siri screen

☒ **Diagnostics**  
User will not be presented with the Diagnostics screen





# DEP Requirements

<https://support.apple.com/en-us/HT204142>

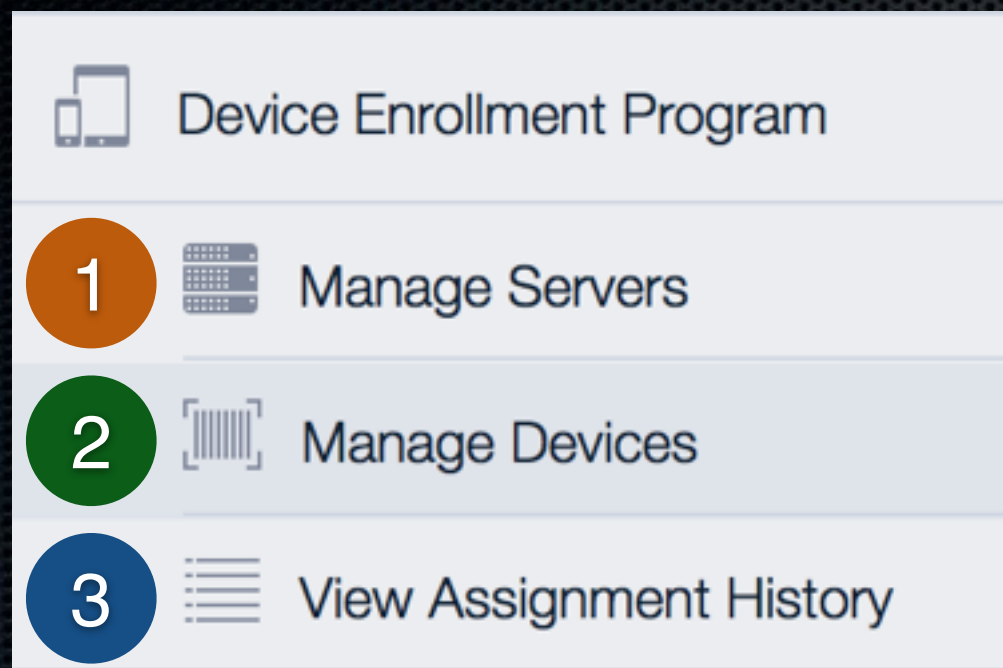
To use the Device Enrollment Program, your institution must purchase devices either directly from Apple, or from a participating Apple Authorized Reseller or cellular carrier. The individual who applies for enrollment must have the authority to accept program terms and conditions on behalf of your institution. For more information about enrollment requirements, see [Device Enrollment Program Help](#).

- Devices must be purchased since March 1, 2011
- iOS 7+
- OS X 10.9+





# Deployment Programs: DEP



1

## Manage Servers

Here we link the DEP to our MDM Server. This allows the two programs to talk to each other.

2

## Manage Devices

Assign devices to a MDM server. Devices do not automatically assign on their own.

3

## View Assignment History

View when devices were assigned to MDM server.



# Deployment Programs: DEP

## Manage Devices

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1. Choose Devices By:

☒ Serial Number      ☐ Order Number      ☐ Upload CSV File

ABCD1234567, EFGHI8901234

---

2. Choose Action:

Assign to Server ▼

---

OK






# Volume Purchase Program





# Volume Purchase Program

<https://volume.itunes.apple.com>

- Allows for bulk purchasing of applications
- Above 20 copies some vendors discount 50%
- PayPal, Credit Card, PO or Retail (Business Only)
- Redeemable Codes  
- Managed Distribution 

<https://support.apple.com/en-us/HT202983>





# Tools to make this work



## Configurator

**MUST** Backup

Initial Device Setup

Mass USB iOS Updates

Touch-Once

Check-Out / Shared Devices

Install / Take Back VPP Apps



## MDM

Dynamic Management

User-Initiated Setup

Managed Distribution

## Providers

JAMF Casper  
Profile Manager

FileWave

AirWatch

Bushel

Absolute Manage

RobotCloud

MaaS360

Certify

MobileIron

Sophos

SOTI



# Managed Distribution

- **Requires** an MDM
- Link VPP to MDM via a token
- Users invited to associate Apple ID to your MDM
- **Licenses** assigned / revoked to **users**
- Content appears in App Store Purchased Tab





# Deployment Programs:VPP

VPP Home > Account Summary

## Account Summary

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**Managed Distribution**

Easily assign apps or books to users on iOS 7 or later or on OS X 10.9 or later using a Mobile Device Management (MDM) solution, such as the latest version of Apple Profile Manager. If you have an MDM solution, you can download a token which can be used to link your MDM solution with your VPP account. Once linked, you can invite users, assign apps and books, and revoke and reassign apps directly through your MDM solution. This token will expire after one year or after a password reset.

[Download Token](#)

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**Latest Purchase**

Jul 12, 2015    Smart PDF Scanner: Scan Documents to PDF    Quantity: 1300

[View Purchase History ▶](#)

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Token should only be on one server at a time





# Deployment Programs:VPP

<a href="#">Use Your Handwriting GOLD ▶</a>	iOS App	1500	Free	Managed Licenses
<a href="#">LabQuest Viewer ▶</a>	iOS App	2	\$9.98	Managed Licenses
<a href="#">SMART Notebook app for iPad ▶</a>	iOS App	48	\$167.52	Managed Licenses
<a href="#">SimCity™ 4 Deluxe Edition ▶</a>	Mac App	4	\$79.96	<a href="#">Download Codes</a>





# Deployment Programs:VPP

## Volume Purchase Program

\$1,244.32

ipad@glencoeschools.org ▾

Search





Media Type

Q Explain Everything ×

All ▾

Search

**iPad Apps** 1-10 See More >

Name	Developer	Category	Released/Updated
 <b>Explain Everything™ Interactive White...</b> +	Explain Everything sp. z o.o.	Education	08/19/11
 <b>Vittle Free: Interactive Whiteboard Vid...</b>	Qrayon, LLC	Productivity	05/09/13
 <b>bContext – Interactive whiteboard to r...</b>	bNapkin Inc.	Education	06/21/12
 <b>Explain 3D LITE: Understand how stuff...</b> +	Explain 3D	Education	02/25/15





# Deployment Programs:VPP

## Purchase Details



**Explain Everything™ Interactive Whiteboard**  
by Explain Everything sp. z o.o.

Price

\$2.99 ea. (1-19 units)

\$1.49 ea. (20+ units)

Quantity

Subtotal

\$--.--

## Distribution Type

- ☐ **Redeemable Codes:** Download a spreadsheet containing redeemable codes which you can then provide to your users. Ownership of the app or book is given to the Apple ID that redeems the code. Codes will only be redeemable in the U.S. store.
- ☐ **Managed Distribution:** Assign apps to users on iOS 7 or later or on OS X 10.9 or later using a Mobile Device Management (MDM) solution, such as the latest version of Apple Profile Manager. You retain ownership of apps only, allowing you to revoke and reassign them as needed.

[Review Order](#)





# Apple ID For Students





# Apple ID For Students

- Allows for creation of Apple IDs for students under 13
- Request submitted to Apple on behalf of the school
- Requires parental consent
- Tips to make this work: Get parents involved





# Apple ID For Students

## Apple ID for Students

saeksr2@glencoeschools.org | [Sign out](#)

[Students](#) [Teachers](#) [Import Accounts](#) [Batches](#) [?](#)

Search By :  
Name

First Name :  
Sample

Last Name :  
Student

Search

First Name	Last Name	Apple ID	Batch	Unique ID	Consent
Sample	Student	2099_samples@glencoeschools.org	DemoAccount 1	48332-2137_DemoAccount1_20155292CFF2921DBD0E4B5336CFDD2EC09B144	Complete ✓





# Apple ID For Students

## Apple ID for Students

saeksr2@glencoeschools.org | [Sign out](#)

[Students](#) [Teachers](#) [Import Accounts](#) [Batches](#) [?](#)

Apple ID:

Search

Add Teacher

Apple ID

▼

saeksr@glencoeschools.org

Remove





# Apple ID For Students

[Students](#) [Teachers](#) [Import Accounts](#) [Batches](#) [?](#)

## Import Accounts

[Download Account Template](#) [Upload CSV](#)

File	Accounts Created		Errors		Import Date	Imported By
7thZK.csv	0	<a href="#">Download CSV</a>	❗ 1	<a href="#">Details</a>	07/02/2015 10:17 AM CDT	saeksr2@glencoeschools.org
7th Grade Apple IDs.csv	128	<a href="#">Download CSV</a>	❗ 2	<a href="#">Details</a>	07/01/2015 8:54 AM CDT	saeksr2@glencoeschools.org
8th Grade Apple IDs.csv	27	<a href="#">Download CSV</a>	❗ 1	<a href="#">Details</a>	07/01/2015 8:51 AM CDT	saeksr2@glencoeschools.org
EduAppleIdBatchUploadTemplate(2).csv	2	<a href="#">Download CSV</a>			06/23/2015 1:26 PM CDT	saeksr2@glencoeschools.org
EduAppleIdBatchUploadTemplate(1).csv	1	<a href="#">Download CSV</a>			05/29/2015 8:46 AM CDT	saeksr2@glencoeschools.org

158 Accounts





# Apple ID For Students

<https://edu-appleid.apple.com/admin/>

T03-Batch ID	Language	First Name	Last Name	Date of Birth(MM-dd-yyyy)	Parent Email Address	Apple ID

Batch ID

Language

First Name

Last Name

Date of Birth

Parent E-Mail

Apple ID

Arbitrary name for this import

English

First Name

Last Name

Date of Birth

E-Mail Address to verify account creation

Apple ID to be created





# Apple ID For Students

## Apple ID for Students

saeksr2@glencoeschools.org

[Sign out](#)

[Students](#) [Teachers](#) [Import Accounts](#) [Batches](#)



### Batches

Batch	No. of Accounts	Last Modified ▲	Download	Registration
7thGradeStudents	128	07/01/2015 8:54 AM CDT	<a href="#">Download CSV</a>	<a href="#">Resend Email</a>
8thGradeStudents	27	07/01/2015 8:51 AM CDT	<a href="#">Download CSV</a>	<a href="#">Resend Email</a>
SampleStudents	2	06/23/2015 1:27 PM CDT	<a href="#">Download CSV</a>	<a href="#">Resend Email</a>
DemoAccount1	1	05/29/2015 8:46 AM CDT	<a href="#">Download CSV</a>	



# EULA: End-Users

As a registered user of the iTunes Service, you may establish an account ("Account"). **Don't reveal your Account information to anyone else.** You are solely responsible for maintaining the confidentiality and security of your Account and for all activities that occur on or through your Account, and you agree to immediately notify Apple of any security breach of your Account. Apple shall not be responsible for any losses arising out of the unauthorized use of your Account.



# EULA: Students

Only persons age 13 years or older can create accounts. Accounts for persons under 13 years old can be created by a parent or legal guardian using Family Sharing or by an approved educational institution. Children under the age of majority should review this Agreement with their parent or guardian to ensure that the child and parent or legal guardian understand it.



# EULA: Content

- (i) You may auto-download iTunes Eligible Content or download previously-acquired iTunes Eligible Content from an Account on up to 10 Associated Devices, provided no more than 5 are iTunes-authorized computers.
- (ii) An Associated Device can be associated with only one Account at any given time.
- (iii) You may switch an Associated Device to a different Account only once every 90 days.
- (iv) You may download previously-acquired free content onto an unlimited number of devices while it is free on the iTunes Service, but on no more than 5 iTunes-authorized computers.

Content can be on up to 10 devices (max 5 computers).

Each device gets one Apple ID at a time, and can only switch every 90 days.

Free apps can go on unlimited iOS devices.



# Rolling up your sleeves

- Takes longer than you think to *properly* setup
- Advise your clients to determine how, not when, they want to leverage these tools



# Techniques

[https://manuals.info.apple.com/MANUALS/1000/MA1685/en\\_US/ios\\_deployment\\_reference.pdf](https://manuals.info.apple.com/MANUALS/1000/MA1685/en_US/ios_deployment_reference.pdf)

- Reference Apple iOS Deployment Guide
- Then decide which one(s)\* works the best



# Techniques

## Org-Owned 1:1

DEP for Device Setup  
VPP / MDM for Managed Distribution  
Personal Apple IDs + Apple ID for Students

## User-Owned 1:1 (BYOD)

~~DEP for Device Setup~~  
VPP / MDM for Managed Distribution  
Personal Apple IDs

## Shared Use

Devices for Checkout  
Kiosk-Styled Device

Configurator for Device Setup  
VPP for purchasing redemption Codes  
Institutional Apple ID for each Configurator  
Optional MDM



# How to fix past work arounds?

- Migrate VPP Codes to Managed Distribution
  - <https://support.apple.com/en-us/HT202863>
  - Works on Unredeemed codes **OR** codes used in Apple Configurator
- What are the things you need to consider?
  - Accounts with VPP codes
  - Managed Distribution via Groups



# More Resources

- <http://www.apple.com/education/it/>
- <https://developer.apple.com/ios/pre-release/>
- <https://developer.apple.com/videos/wwdc/2015/?id=301>
- <http://www.apple.com/business/vpp/>
- [http://www.enterpriseios.com/wiki/Compare\\_MDM\\_Providers](http://www.enterpriseios.com/wiki/Compare_MDM_Providers)
- [https://www.apple.com/business/docs/VPP\\_Business\\_Guide.pdf](https://www.apple.com/business/docs/VPP_Business_Guide.pdf)
- [www.apple.com/education/docs/  
Apple\\_ID\\_for\\_Students\\_Parent\\_Guide\\_US\\_0514.pdf](http://www.apple.com/education/docs/Apple_ID_for_Students_Parent_Guide_US_0514.pdf)
- [https://www.apple.com/education/docs/ul3\\_institution\\_guide\\_en\\_Feb14.pdf](https://www.apple.com/education/docs/ul3_institution_guide_en_Feb14.pdf)



# Questions?



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