

Working with Apple School Manager, Classroom and Apple TV's

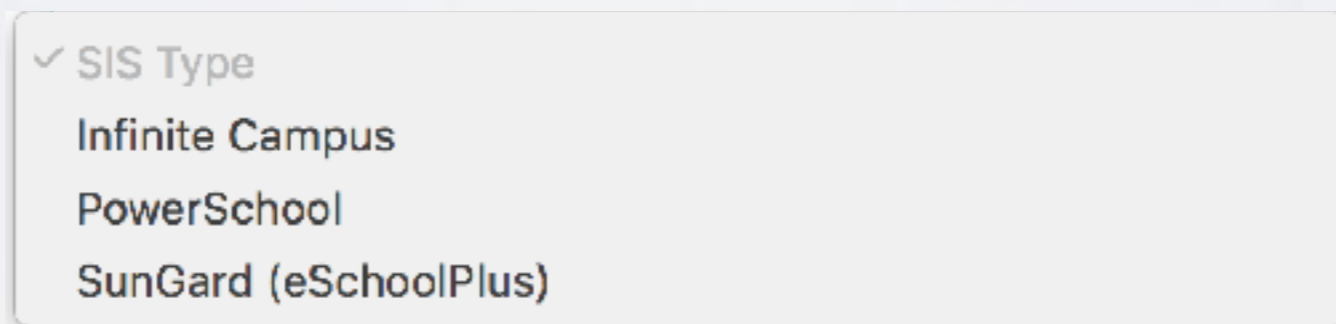
And a few other bits too.

Apple School Manager (school.apple.com)

- Consolidates VPP / DEP Services
- Allows Creation of Managed Apple ID's
- Allows assignment of Managed Apple ID Restrictions (FaceTime and Messages, for now!)
- Purchasing portal now built in
- Locations, locations, locations!
- Allows migration of Managed Distribution Licenses
- Apple Business Manager - potential fork, currently US only! (business.apple.com)

Classroom Configuration

- Shared iPad vs *shared* iPad
- Configuration Examples:
 - Simple shared iPad, bundled sets of devices (Most common)
 - Shared iPad configuration via ASM (US Centric, possible manual data management)
- User Created Classrooms
- All options rely on client-to-client communication and TCP 3283 / 3284 for Document Sharing



Admin Created Classroom Requirements

- Devices must meet certain specifications + OS version

Teacher's iPad	Requirement
iPad version	iPad 4th generation or later iPad mini 2 or later
Earliest supported iOS version	iOS 10.3.2 or later

Student iPad	Shared iPad requirements	One-to-one requirements
iPad version	Any iPad Pro iPad 5th generation iPad Air 2nd generation or later, with at least 32GB of storage iPad mini 4th generation or later, with at least 32GB of storage	iPad 4th generation or later iPad mini 2 or later
Earliest supported iOS version	iOS 10.3.2 or later	iOS 10.3.2 or later

Admin Created Classroom Requirements

There's a few more!

- Bluetooth Must be Enabled
 - Restrictions available to limit changing this, but isn't perfect!
- Student devices must be Supervised and enrolled into MDM
- Teacher Devices must be enrolled in MDM
- Teacher Devices must have the Classroom App
- Users *must* be assigned to Devices in Mobile Device Inventory
- A Class has to be assigned one or more Teachers and Students

Hang on a minute...

What if I have thousands of devices split
over many classrooms / sets?



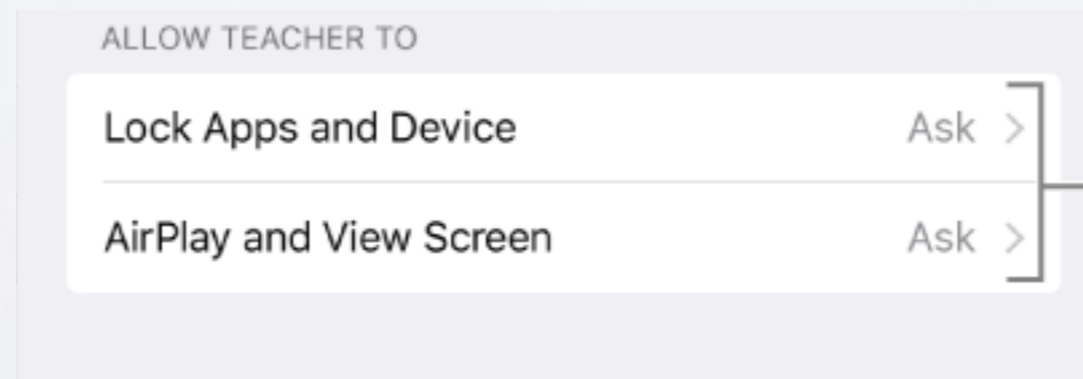
<https://jssmut.weebly.com> (Or the app store!)

All that stuff aside...

Brief Demo

User Created Classroom Requirements

- Key Differences:
 - Supervision is optional
 - MDM enrollment not required
 - Teacher creates an ad-hoc Class within the App
 - Relies on students in the room joining a class and entering a pin in Settings > Classroom
 - Avoidable management! Opt-in only.



Shared iPad Classroom Requirements

- Key Differences:
 - Managed similarly to the first method
 - Devices must be in Shared iPad mode and signed into Apple IDs
 - User information and class data (Times, etc) is imported from Apple School Manager
 - Difficult to manage without SIS Support

Managing Apple TV's

- Uses the same management framework as iOS (Apple Push Notification Services, Configuration Profiles, etc!)
- Can be supervised
- Can be enrolled into an MDM system
- tvOS 10.2+ now allows enrollment through DEP and extra skippable Setup Assistant panes
- Devices below 10.2+ need to be updated and erased to trigger DEP even when the enrollment profile is configured
- Devices that cannot support 10.2+ must be managed / enrolled the 'old school' way through Apple Configurator
- Network limitations can interfere with enrollment - i.e. web filtering, SSL inspection without a packet inspection certificate
- No way of trusting self signed certificates on devices until after the Setup Assistant
- Alternatives may be enrolling off-site, setting up a staging network with ACL's limiting access to Apple + MDM services, Personal Hotspots, etc!

Profiles for Apple TV's

- New payloads are available for tvOS via MDM
 - Restrictions: Allowing AirPlay, Disabling Remote app access, Disabling device name changes (useful for AirPlay!), AirPlay Security (tvOS 11+, pairing method), naming a few.
 - Conference Room Display - enforce a message to display on screen
 - Home Screen Layouts (tvOS 11+)
 - Key Classic payloads supported - (WiFi, Global Proxy, Certificates (think HTTPS inspection or your CA's!), Single App Mode, SCEP)

Apps!

- tvOS 10 allows app distribution!
- Limited at this point to Enterprise Apps
- Expected that tvOS Apps appear in the VPP portal at some point in the near future

Useful Guides + Resources

- Your chosen MDM Vendors' Manuals
- <http://help.apple.com/classroom/ipad/2.1/#/>
- <https://jssmut.weebly.com>