Sydney Region Apple iPad 2 Trial

What’s really involved?
Let’s get technical
Our school really needs to get into mobile computing!
IPADS ARE POPULAR! WE’RE GETTING IPADS!

image courtesy Joey Alaiza
SO WE BOUGHT 15 IPADS. NOW WHAT?!
OMG
I THINK I NEED HELP
Let’s start again
What’s the Ultimate Goal?

To have a set of however many iPads for use in class, each of which has all of the desired apps legally installed, with access to wireless internet and an ability to transfer work off and to be ready for use whenever anybody needs one.

...and WHY???
“iPad is a Consumer Device.”

• When you get frustrated with how the iPads work in a shared environment, remember that you are shoe-horning a device that’s designed for a single user into a shared classroom setup.

• There will be sharing issues, and until Apple addresses them, you will have to work around the issues.
Things to consider

- App licencing and deployment
- Wireless access
- Sharing and saving work
- Ongoing maintenance
Apps.
There is a misconception that it is OK in a school to use one iTunes Account to buy as many apps as you like and sync those apps to as many iPads or iPod Touches as you like. There is another misconception that you can sync up to 5 iDevices legally. In a school, you simply cannot. Some think, “Oh, but the Apps are only $1.99 each. They won’t mind. We’re a school.”

Still Unsure of Licencing?

This is the App Store entry for Proloquo2Go - recommended for children with autism, cerebral palsy and Down syndrome. It costs $199 to buy. How happy would the developer be if you bought one copy and used it on 10 iDevices with 10 students?

Some Apple iPad Facts

You’d like that app on every one of your iPads?

In a school, you MUST have a SEPARATE, UNIQUE Apple iTunes Account for each of your iPads.

You MUST purchase EACH app for EACH account / iPad.
Before you can create an iTunes account, you need an email address. To create a second iTunes account, you need a second, different email address. To create a 15th iTunes account, you need a 15th different email address. Getting the necessary email addresses can be a big problem.
iTunes Account’s Best Friend

• Create just **ONE** Gmail account
• Call it SchoolNameiPad – eg. BondiPSiPad
• Then create your unique iTunes accounts as:
  • BondiPSiPad+01@gmail.com
  • BondiPSiPad+02@gmail.com etc.
• All of these addresses will go back to the original Gmail account you created!
Some Apple iPad Facts

For paid apps, you will need either a credit card number against each iTunes account *(not recommended)*, or purchase a SEPARATE iTunes Gift Card for EACH iTunes account.

Buying multiple Gift Cards can be a problem.
1. Consider your Naming convention. What will you call your iPads? In Sydney Region’s Trial, we called them SRiPad+01 through SRiPad+75

2. Label all your iPads clearly with their names. We used Brother stick-on labels

3. Create a master email account for your iPad set using GMail. eg. sripad@gmail.com

Getting or Buying Apps

5. Dedicate one computer (PC/Mac) to host the separate iTunes Libraries for each iPad. Install the latest version of iTunes

6. Start iTunes while holding down SHIFT key (Win) or OPTION key (Mac)

7. Create a new unique Library named after the first iPad, then apply the first Gift Card

8. Purchase all desired apps directly in iTunes and apply them to the iTunes account. When done, plug in the iPad and sync the purchased apps
Managing Multiple iPad Libraries on one Computer

Hold down SHIFT when starting iTunes

Hold down OPTION when starting iTunes
With iOS5, you can connect wirelessly via the NSW DEC network infrastructure directly with each iPad to the App Store and make your purchases using each iTunes account. No syncing is required and App updates can be applied directly on the device. But we strongly recommend that students are not told the iTunes account password!
There is another way...

App Store Volume Purchase Program

The App Store Volume Purchase Program allows educational institutions to purchase iOS apps in volume and distribute the apps to their users.

Program Benefits
With the App Store Volume Purchase Program, your educational institution can buy iOS apps in volume using a Volume Voucher, credit card, or PCard, then distribute the apps to multiple devices.* If your institution is tax exempt, you will not be charged sales tax when you purchase apps. The program also allows app developers to offer special pricing for purchases of 20 apps or more.

THIS IS NOW* AVAILABLE IN AUSTRALIA

* http://www.apple.com/education/volume-purchase-program for more details
Got Access to a New-ish Mac?

Apple Configurator is an excellent tool for managing iPads and it works hand-in-hand with the Apple Volume Purchase Program.
iOS 5 Education Deployment Guide

Official guide from Apple

http://tinyurl.com/ipaddedeploy
Wireless.
Wi-Fi iPad at School

Wi-Fi model

DEC Authenticated Proxy/Filter

School’s Cisco Router

School Wireless Access Point
If you’re in a high school...

No sweat.

iPad connection works fine with DER wireless.
SR Supported Wireless Access Points

HP Procurve MSM 410 with Power Injector.
Used for portable situations where the access point moves with the iPads.

Aruba IAP-105.
Used in fixed situations where wireless access is needed across a wider number of rooms.

For either of these, please ask for advice before buying.
What you shouldn’t get

Any Wireless ROUTER.
These are designed for home use.
Your school already has a really important router.
Plugging another one into your school’s network can stuff things up. Please DON’T.

Remember, if you need wireless, please ask for advice before buying.
Once connected to your WiFi Access Point at school, set the proxy details as shown below.

HTTP Proxy

- Server: proxy.det.nsw.edu.au
- Port: 8080
- Authentication: On
- Username
- Password
Sharing and saving work.
So you’ve created something. You took some photos, you made a comic, you typed out a narrative and you edited a video. But now someone else needs to use “YOUR” iPad. How can you easily get your stuff off or share with the teacher?
Sharing your work on a big screen

A good option to allow students to display their work for the rest of the class.

Apple iPad VGA Adaptor
Wireless Mirroring with Apple TV

What you’ll need:
• Apple TV
• Projector or TV with HDMI Input
• HDMI Cable
• The iPad and the Apple TV must be on the same IP address range

http://www.youtube.com/watch?v=LtOgvUb3Jk8
Email your work.
As long as your apps allow it, then emailing your work is the easiest option. In a shared setup, use this guide:
http://tinyurl.com/ipadmailout
Maintenance.
Keep your iPads protected.

When buying your iPads, factor in the cost of covers and even thin-film screen protectors. If you want to prolong the life of your iPads, these are essential.
Updating Installed Apps

The more apps you have installed, the more apps you’ll need to keep updated. It is easiest to update from the App Store on each device, but in order to do so, you will need the Apple iTunes account details, therefore, this is definitely NOT a job for students to do.
Charging the Battery

To prolong the in-built battery’s life, it’s best to only put the iPad to charge when it needs it. You should get about two school days’ worth of use before it needs charging. Wait till the indicator is **below 10%** before charging. Even at 10%, you should still get about an hour of use. Always allow it to **FULLY** charge – it will take several hours to do.
Syncing the iPads

It’s very important to regularly sync each iPad back to its host iTunes Library. This will make a backup of all apps and data and allow for easy recovery in case there is a problem. Especially important prior to updates to the iOS.
Syncing Stations

Technically, you can use a syncing station to make all iPads the same, as long as you have legally bought all apps against separate iTunes accounts. Then, be aware that all iPads will have user data wiped every time you resync. You will also need an Apple computer to sync multiple iPads at the same time.
Upgrading to iOS5

This is a highly recommended update, but its installation is not a trivial matter. Sydney Region IT Services have worked out an offline install process which brings the timeframe down to about 15 minutes each (after a sync backup). Otherwise it’s an 800MB download per iPad. Contact us for more details on this procedure.
How I Set Restrictions On My Class Set Of iPads (by Greg Thwaites)

How I set restrictions on my class set of iPads
Known Issues.
It’s not there. Live without it.

Superman, this is the iPad. It’s the future of comics. It’s going to save you.

Spider-Man, this is the iPad. It’s the future of comics. It’s going to save you.

Hulk, this is the iPad. It’s the future of comics. It’s going to save you.

What about me?

Sorry, Flash, you’re out of luck.

image courtesy @billamend
Which iOS?

iOS 4

Almost all Apps that require Internet will not work with our proxy

Most Apps that require Internet will work with DEC’s Authenticated Proxy
Actually, there are other ways to allow for printing from iPads, but it usually requires dedicated hardware such as special model printers or software running on computers.
Sharing iPads means sharing your stuff

Pages  Keynote  Photos  ComicLife
Mail  Facebook  Twitter  Videos

Plus every other app that you put your own work into
Unless you remember to set Restrictions against it, there is nothing to stop a student from deleting any or all apps on the iPad, meaning either a recovery from the last backup, or a re-download of each app. Other Restrictions can be set, but this needs to be done on each iPad. OSX Lion Server and Casper can assist.
With the iPad designed for single-use and being the helpful people that Apple are, it likes to remember authentication information to make it easier for you. The DEC authenticated internet has different filter levels for different types of users, so if a teacher signs in, their access level will be remembered allowing students to access sites they normally couldn’t. Restarting the iPad doesn’t resolve it. Definitely a case of **Forget-me-not.**
BUT THE iPAD MIGHT FORGET IF
before handing the iPad to another user:

- Double-press the Home button
- The apps running in the background will appear below
- Scroll across until you find Safari and hold your finger on it
- When the red – appears, press it to terminate Safari
DEC iPad Technical Support

Unfortunately, aside from the Sydney Region iPad Trial, iPads are not currently a supported product in NSW DEC.

Be prepared to be a self-supported site

image courtesy Faraz Rahnemay
Despite these issues, the Sydney Region iPad 2 Trial has demonstrated that iPads are a device well worth considering because the educational benefits are evident. However, commitment by the teachers and the school toward setup and ongoing maintenance will be essential.

Where to get this presentation:
http://tinyurl.com/sripadtechnical
The Sydney Region iPad2 Trial
Acknowledgements

• Banksmeadow Public School
• Carlton Public School
• Plunkett Street Public School
• Sydney Region IT Services Unit (Schools)
• Dr Phil Lambert (RD) / Gavin Patterson (SED)
• Lena Arena / Arianne Skapetis
• Apple Australia
• Brad Ratcliffe and Greg Thwaites for their videos