filewave™

Take control of your software

Sébastien Tomasi

System Administrator

John Clayton

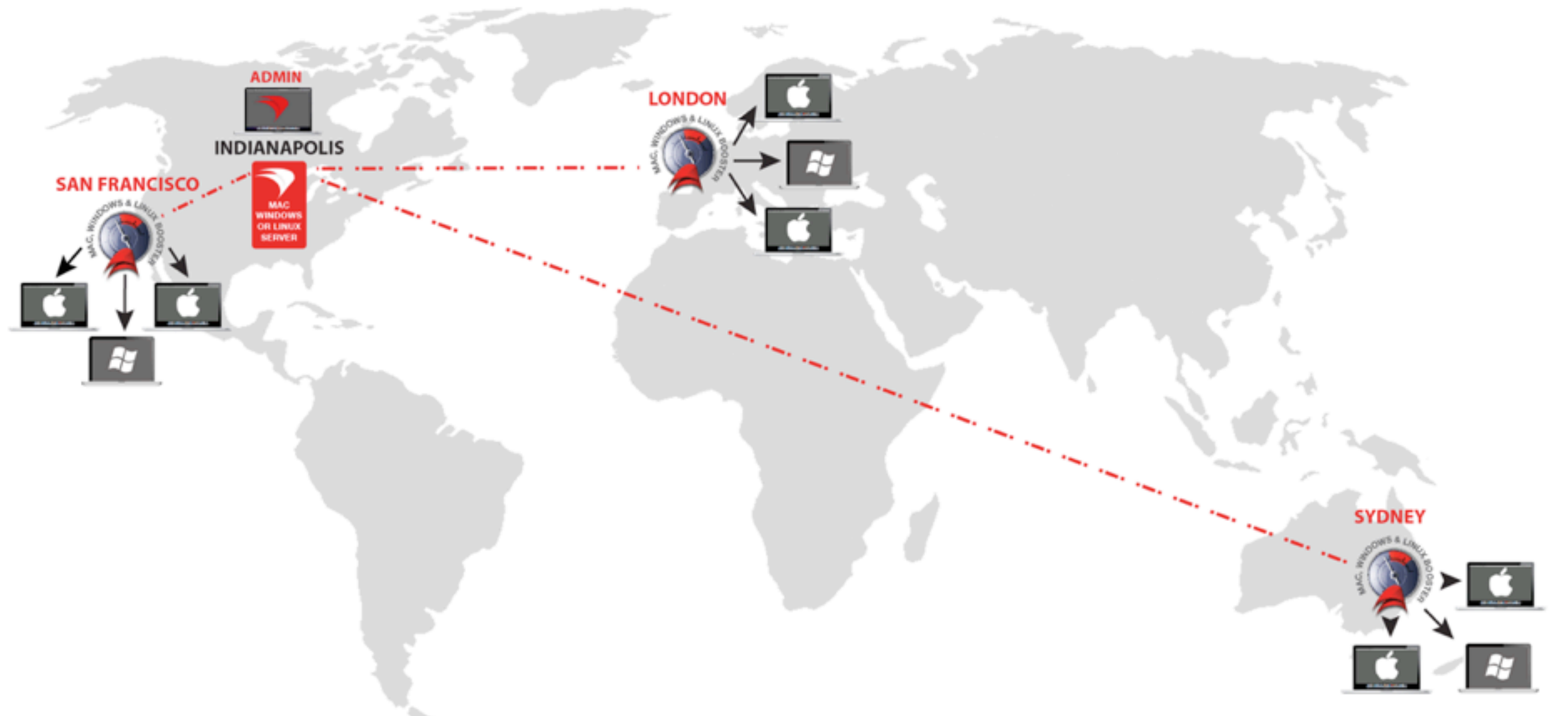
Head of Development - FileWave

Ritz, Bastionsplatsen 2

What's FileWave?

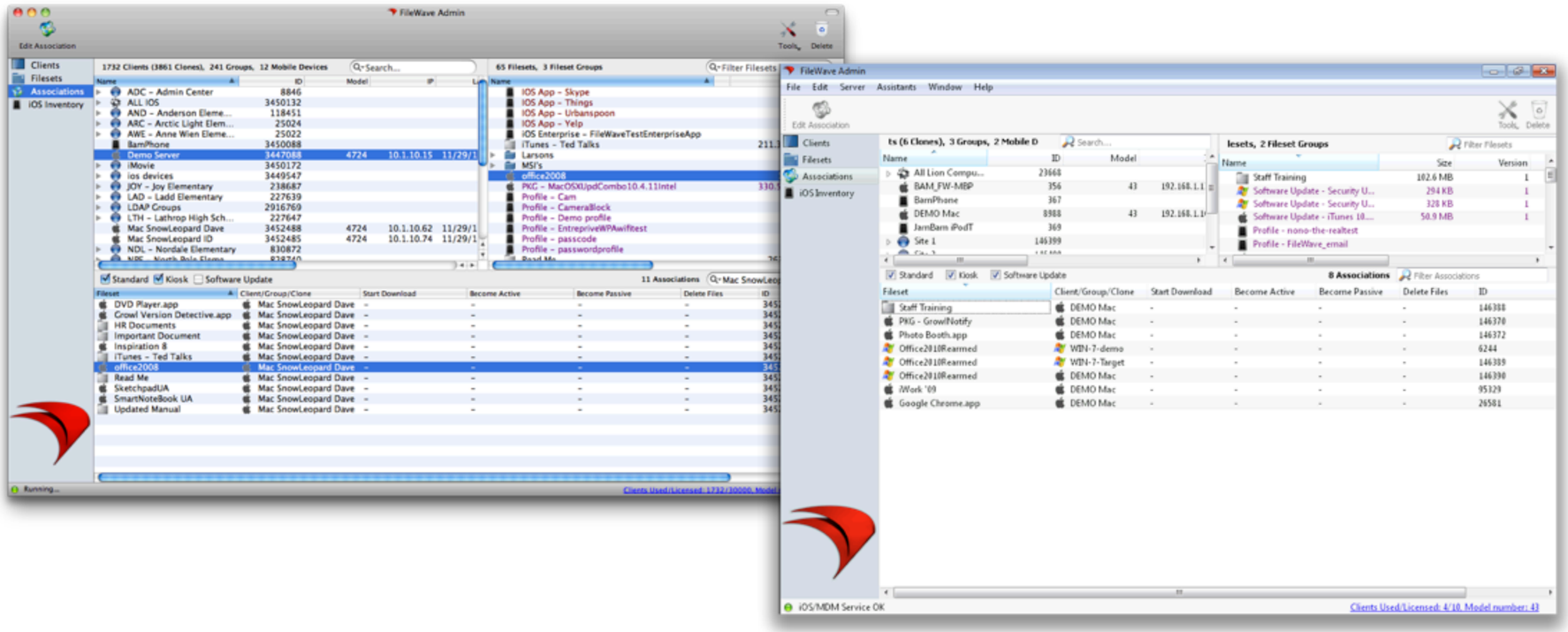
Scalable and Robust

thanks to the Booster and Client “pull” technology



Cross Platform

Runs on Mac, Windows & Linux

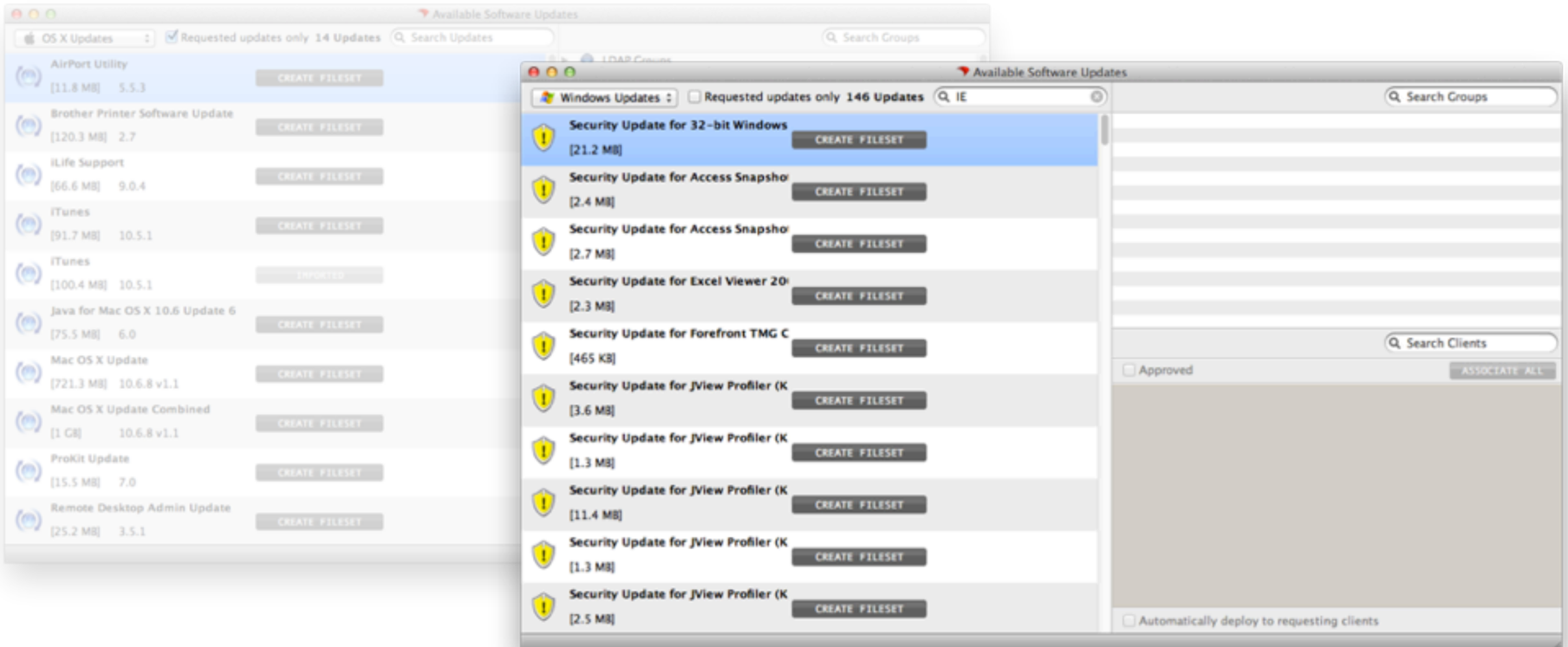


Self Service Portal / Kiosk

For both Mac and Windows

Manage Software Updates

For both Mac and Windows



MDM - Mobile Device Management

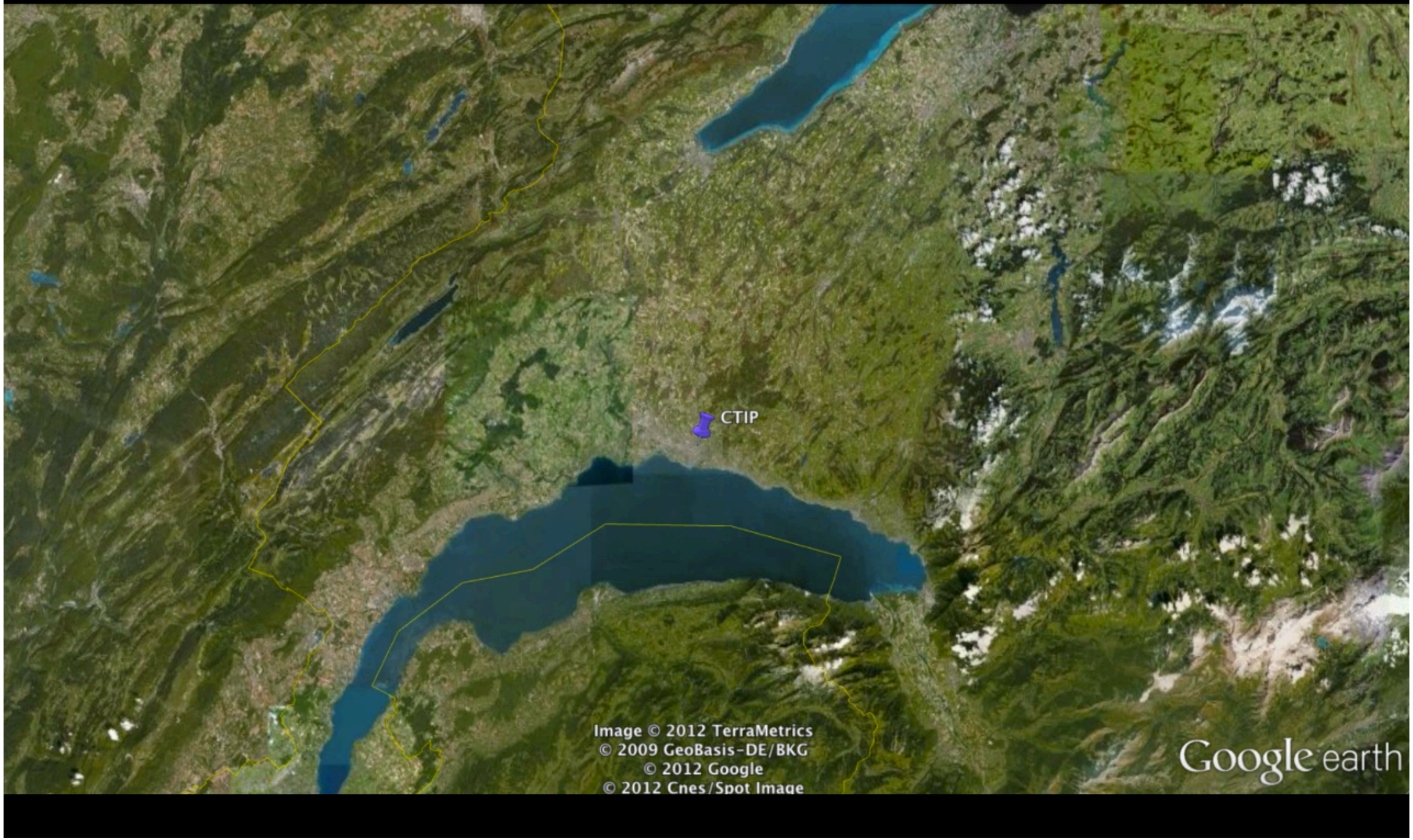
Deploy any Apps, at any time, to any of your Apple iOS devices

Business Apps FileWave distribution

CTiP

Sébastien Tomasi

System Administrator


CTIP
Image © 2012 TerraMetrics
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Why FileWave?

- Canton requires one provider
- Close relationship with Vendor
- Reliability & Scalability

Campus: Ollon

- 200 Macs
- 4 routers & boosters
- Geographically dispersed

CTIP
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Image © 2012 DigitalGlobe
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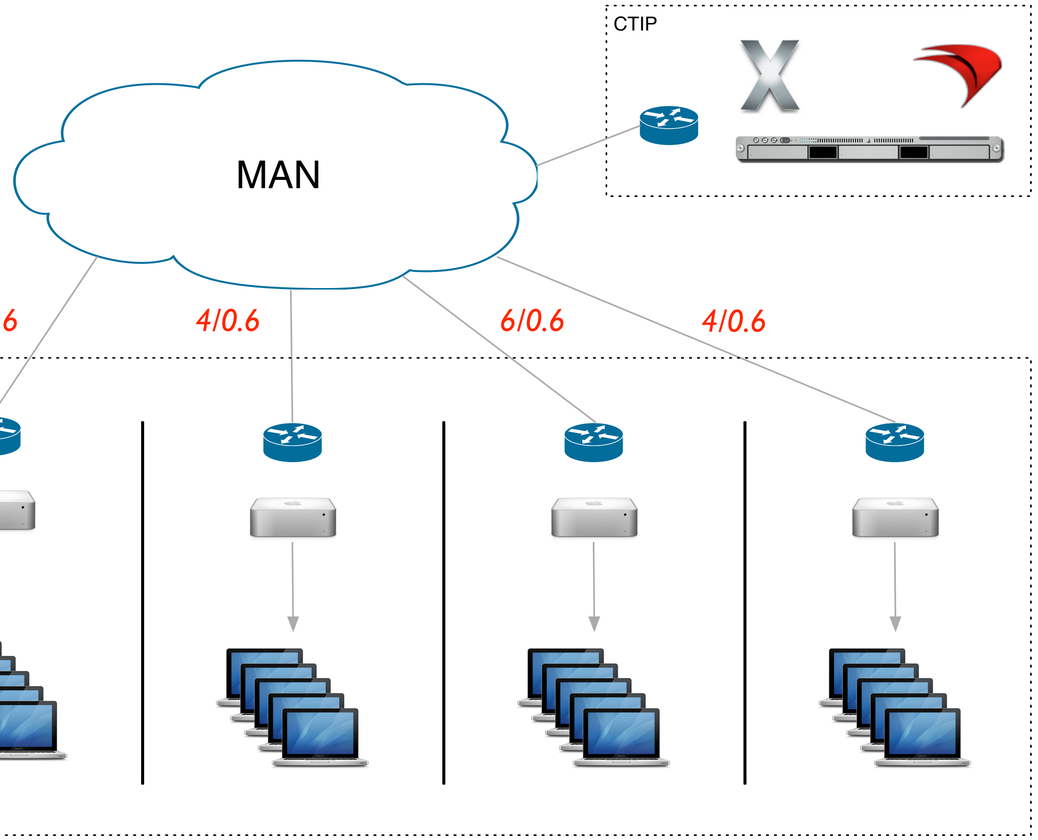
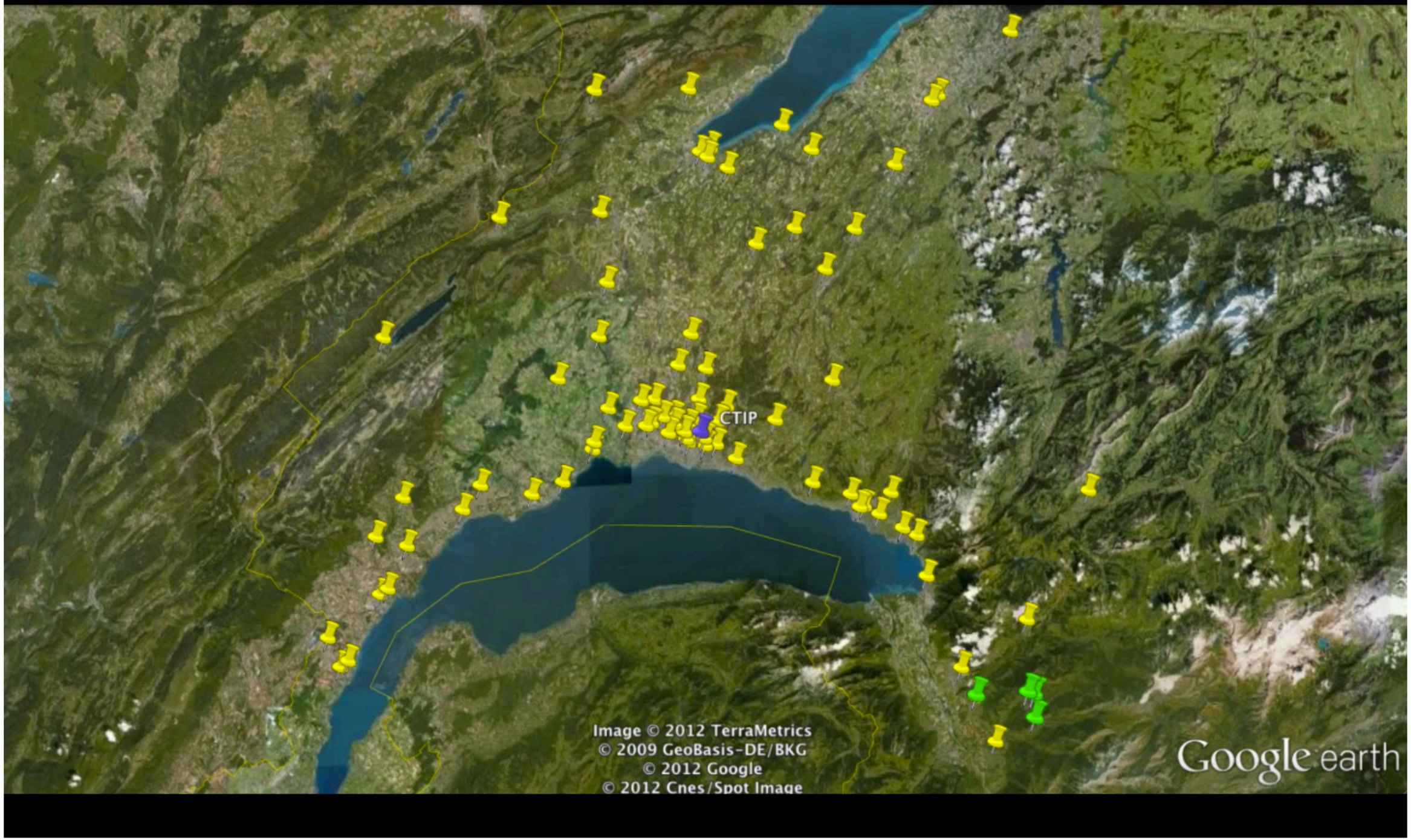

CTIP
MAN
4/0.6
4/0.6
6/0.6
4/0.6
Ollon


CTIP
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Google earth

Sometimes size matters (#1)

- 15,000 Macs (10.5 -> 10.8)
- > 600 Routers
- 1,000 Buildings
- > 100 Boosters
- One Telco. to bind them

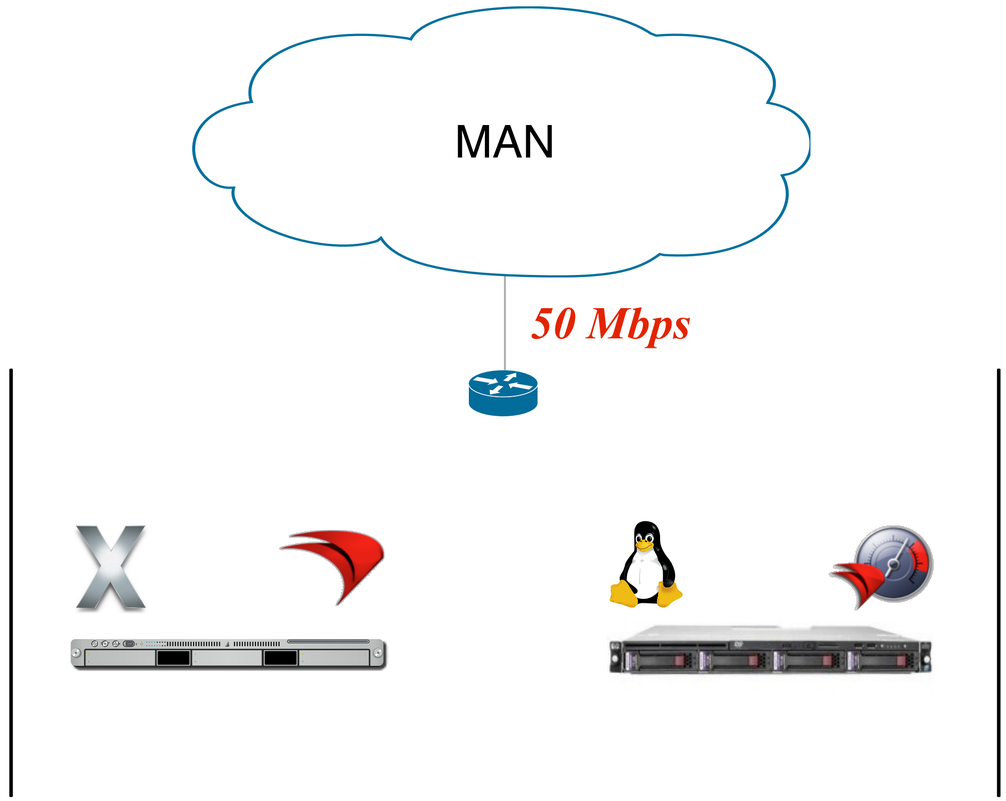
Sometimes size matters (#2)

- b/w incredibly variable (0.6 mbit - 50 mbit)
- 50 / 50 - WiFi & Cabled
- ~ 20 gig of data per computer
- ~ 200 apps

In one word:

“Tricky”

But sometimes size does not matter



- One xServe
  Mac OS X 10.6.8
- One Booster
  CentOS 5.8
- b/w 50 Mbit symmetric

Who runs it?

- 10 admins in total
- 3 of admins create filesets
- The rest add machines into groups

Deploying an entire Canton

- PKG's to begin with (but had issues)
- Boosters + Filesets

Fileset Contents: iLife11 w-updates

Import File/Folder | New Folder | Get Info | Edit Registry | Edit Text | Export Files | Delete | Release Control | Hide unused folders | Search...

Name	Size	Access	User	Group	Verification	ID	Modification Date	Comment	Creatic
Applications		rwxrwxr-x	root	admin		103			
Library		rwxrwxr-t	root	admin					
Application Support		rwxrwxr-x	root	admin					
GarageBand		rwxrwxr-x	root	admin					
iDVD		rwxrwxr-x	root	admin					
iLife		rwxrwxr-x	root	admin					
iLifeSlideshow		rwxrwxr-x	root	admin					
iPhoto		rwxrwxr-x	root	admin					
CachedThumbnails		rwxrwxr-x	root	admin					
iPhoto Library Upgrader.app		rwxrwxr-x	root	admin					
Contents		rwxrwxr-x	root	admin					
_CodeSignature		rwxrwxr-x	root	admin					
CodeResources	56 B	rwxr-xr-x	root	admin					6/19/
Frameworks		rwxrwxr-x	root	admin					
Info.plist	1.9 kB	rw-rw-r--	root	admin					6/19/
MacOS		rwxrwxr-x	root	admin					
PkgInfo	8 B	rw-rw-r--	root	admin					6/19/
PlugIns		rwxrwxr-x	root	admin					
Resources		rwxrwxr-x	root	admin					
version.plist	462 B	rw-rw-r--	root	admin	Ignore At Verify (Left Behind)	3,089,295	9/8/10 7:30 PM		6/19/
Themes		rwxrwxr-x	root	admin		2,624,352			
Themes.Common		rwxrwxr-x	root	admin		2,624,805			
Themes.db	22.7 MB	rw-rw-r--	root	admin	Ignore At Verify (Left Behind)	3,094,078	2/28/12 10:34 AM		6/19/
Audio		rwxrwxr-x	root	wheel		2,630,300			
Documentation		rwxrwxr-x	root	wheel		2,631,937			
Frameworks		rwxrwxr-x	root	wheel		319,637			
iLifeFaceRecognition.framework		rwxrwxr-x	root	wheel		2,632,186			
CodeResources	48 B	rwxr-xr-x	root	wheel	Ignore At Verify (Left Behind)	3,095,744	9/17/10 1:14 PM		6/19/
iLifeFaceRecognition	74 B	rwxr-xr-x	root	wheel	Ignore At Verify (Left Behind)	3,095,745	9/17/10 1:14 PM		6/19/
Resources	52 B	rwxr-xr-x	root	wheel	Ignore At Verify (Left Behind)	3,095,746	6/19/12 2:18 PM		6/19/
Versions		rwxrwxr-x	root	wheel		2,632,191			
A		rwxrwxr-x	root	wheel		2,632,192			
_CodeSignature		rwxrwxr-x	root	wheel		2,632,195			
CodeResources	1.8 kB	rwxr-xr-x	root	wheel	Ignore At Verify (Left Behind)	3,095,747	9/17/10 1:14 PM		6/19/
CodeResources	56 B	rwxr-xr-x	root	wheel	Ignore At Verify (Left Behind)	3,095,748	9/17/10 1:14 PM		6/19/

Editing Info.plist (ID 3089158)

Info.plist

```
<string>NSApplicationIcon</string>
<key>CFBundleIdentifier</key>
<string>com.apple.iPhotoLibraryUpgrader</string>
<key>CFBundleInfoDictionaryVersion</key>
<string>6.0</string>
<key>CFBundleName</key>
<string>iPhoto</string>
<key>CFBundlePackageType</key>
<string>APPL</string>
<key>CFBundleShortVersionString</key>
<string>8.1</string>
```

Line Endings: Unix Windows | Cancel | Save

Deploying an entire Canton

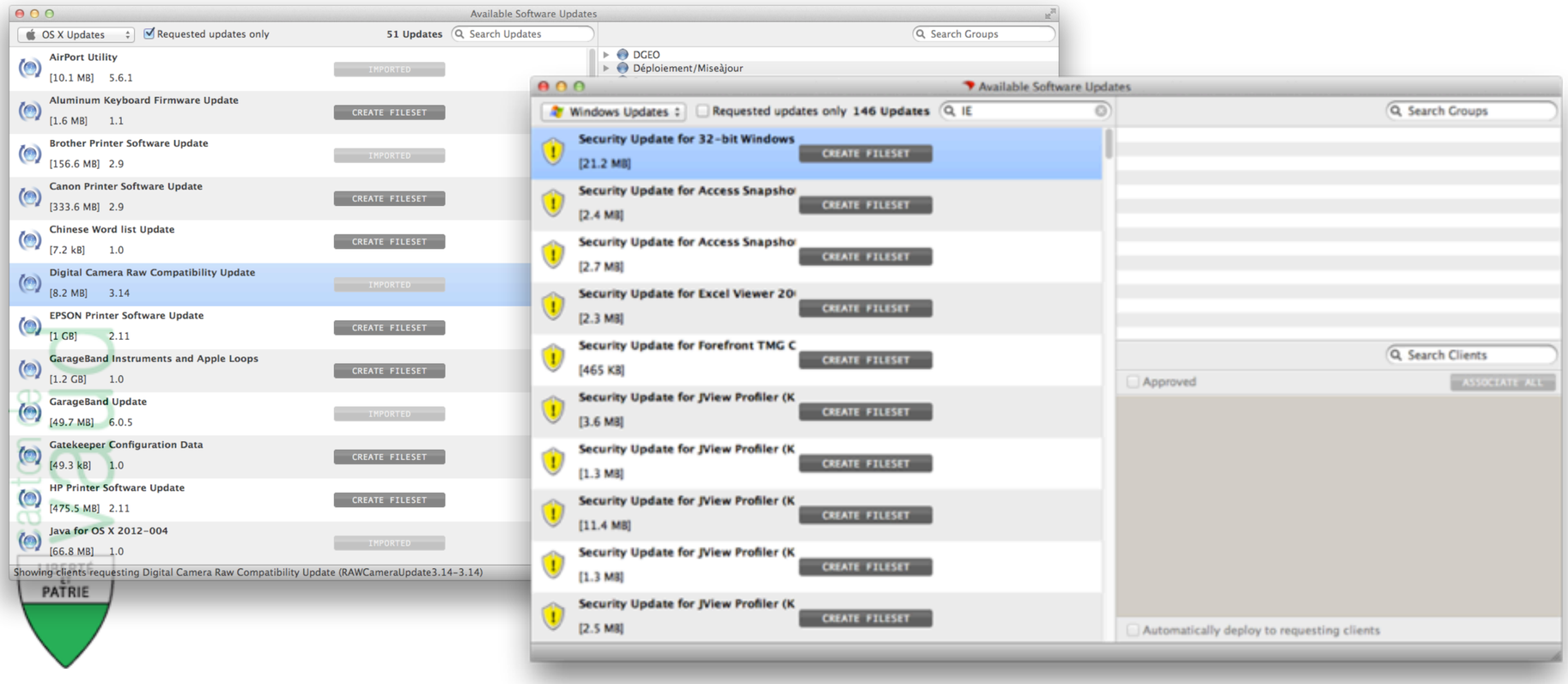
- PKG's to begin with (but had issues)
- Boosters + Filesets
- Filesets cheaper to deliver than PKG's
- Passive / active associations

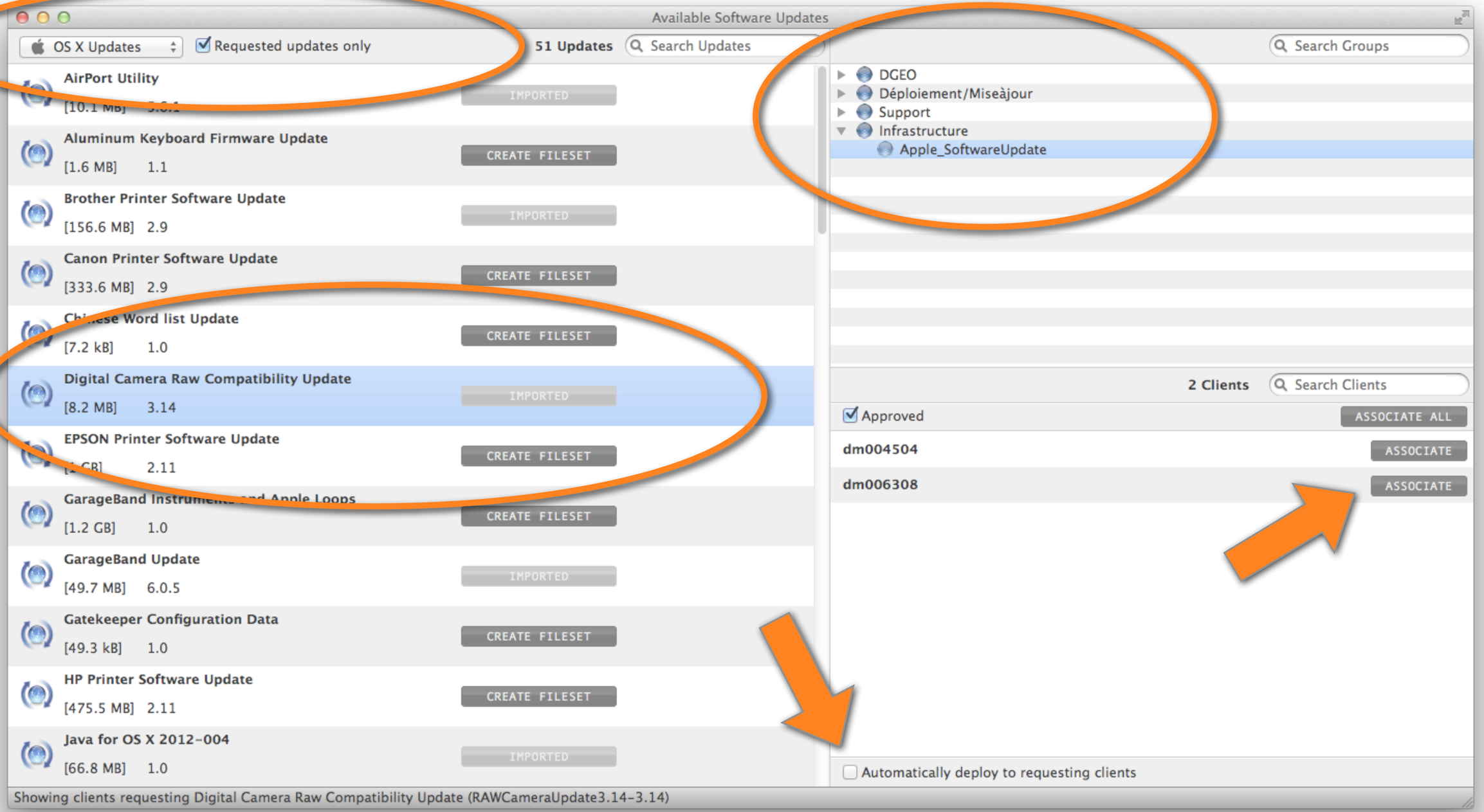
What else?

- Software Update

Manage Software Updates

For both Mac and Windows



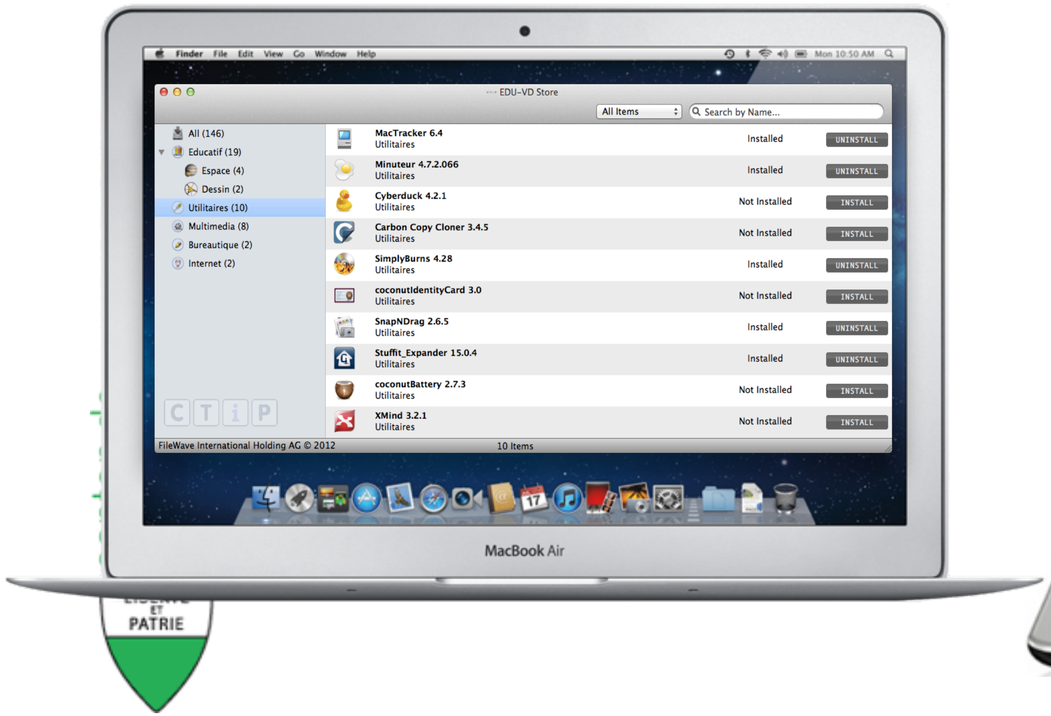

Available Software Updates
OS X Updates
Requested updates only
51 Updates
Search Updates
Search Groups
AirPort Utility
[10.1 MB] 5.6.1
IMPORTED
Aluminum Keyboard Firmware Update
[1.6 MB] 1.1
CREATE FILESET
Brother Printer Software Update
[156.6 MB] 2.9
IMPORTED
Canon Printer Software Update
[333.6 MB] 2.9
CREATE FILESET
Chinese Word list Update
[7.2 kB] 1.0
CREATE FILESET
Digital Camera Raw Compatibility Update
[8.2 MB] 3.14
IMPORTED
EPSON Printer Software Update
[1 GB] 2.11
CREATE FILESET
GarageBand Instruments and Apple Loops
[1.2 GB] 1.0
CREATE FILESET
GarageBand Update
[49.7 MB] 6.0.5
IMPORTED
Gatekeeper Configuration Data
[49.3 kB] 1.0
CREATE FILESET
HP Printer Software Update
[475.5 MB] 2.11
CREATE FILESET
Java for OS X 2012-004
[66.8 MB] 1.0
IMPORTED
DGEO
Déploiement/Miseàjour
Support
Infrastructure
Apple_SoftwareUpdate
2 Clients
Search Clients
Approved
ASSOCIATE ALL
dm004504
ASSOCIATE
dm006308
ASSOCIATE
Automatically deploy to requesting clients
Showing clients requesting Digital Camera Raw Compatibility Update (RAWCameraUpdate3.14-3.14)

What else?

- Software Update
- App Kiosk (in-house App Store)

Self Service Portal / Kiosk

For both Mac and Windows



EDU-VD Store

All Items | Search by Name...

- All (146)
- Educatif (19)
  - Espace (4)
  - Dessin (2)
- Utilitaires (10)
- Multimedia (8)
- Bureautique (2)
- Internet (2)

CTiP

MacTracker 6.4 Utilitaires	Installed	UNINSTALL
Minuteur 4.7.2.066 Utilitaires	Installed	UNINSTALL
Cyberduck 4.2.1 Utilitaires	Not Installed	INSTALL
Carbon Copy Cloner 3.4.5 Utilitaires	Not Installed	INSTALL
SimplyBurns 4.28 Utilitaires	Installed	UNINSTALL
coconutIdentityCard 3.0 Utilitaires	Not Installed	INSTALL
SnapNDrag 2.6.5 Utilitaires	Installed	UNINSTALL
Stuffit_Expander 15.0.4 Utilitaires	Installed	UNINSTALL
coconutBattery 2.7.3 Utilitaires	Not Installed	INSTALL
XMind 3.2.1 Utilitaires	Not Installed	INSTALL

FileWave International Holding AG © 2012 — 10 Items

What else?

- Software Update
- App Kiosk (in-house App Store)
- Imaging...

FileWave Lightning

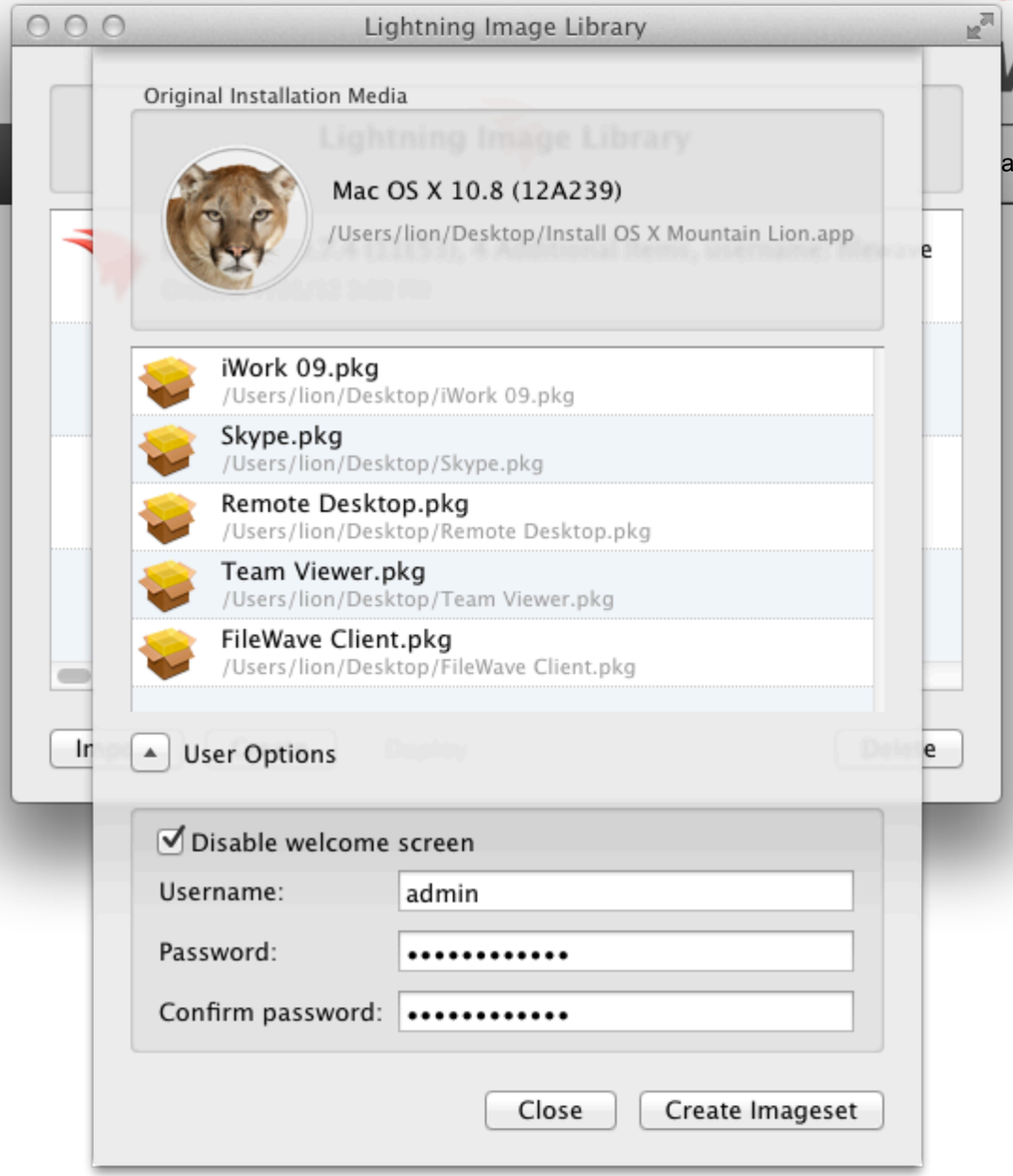
- Creates “never booted” images
- For 10.7 and 10.8
- Include any PKG in the image
- via Thunderbolt in 40 seconds
- via FireWire in... well... longer.

Multi-platform management

Intro

aging

iOS



canton de vaud

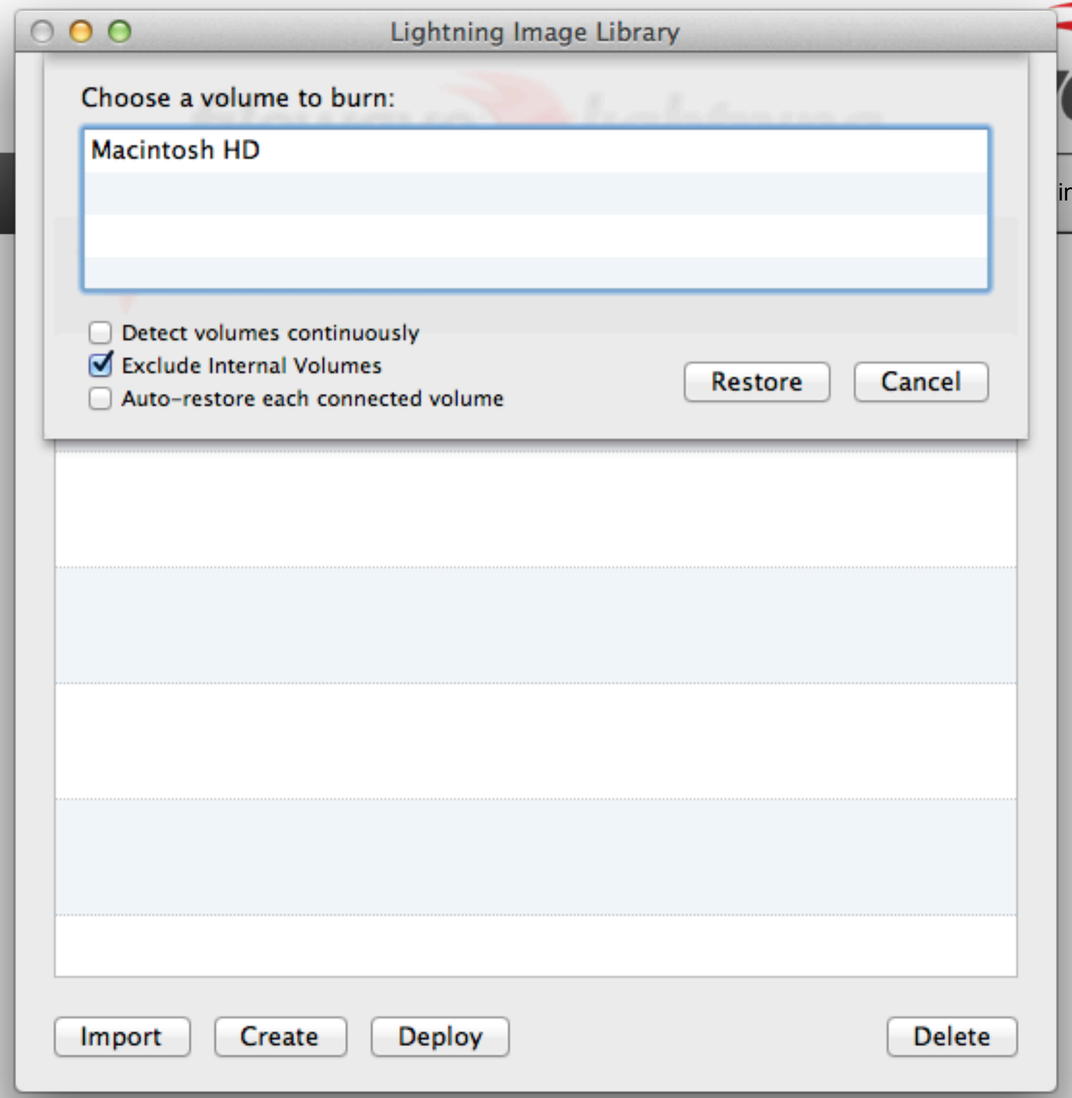
LIBERTÉ ET PATRIE

Intro

ing

iOS

Multi-platform management



canton de vaud

LIBERTÉ ET PATRIE

http://filewave.com/lightning

Get it for FREE

iOS / BYOD

The Future

- BYOD is the future.
- We need to be ready for it.
- Huge scope...

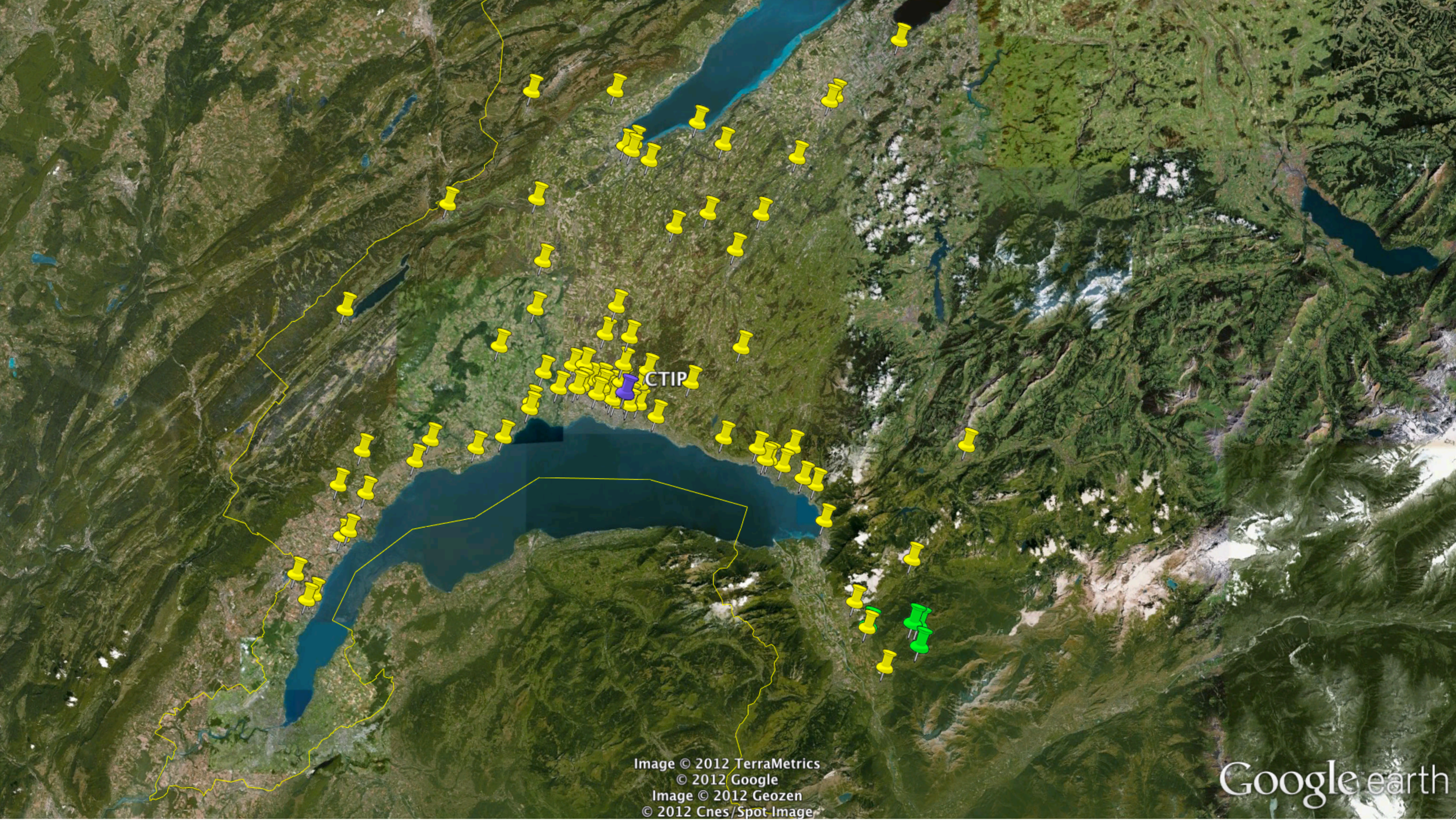

CTIP
Image © 2012 TerraMetrics
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Image © 2012 Geozen
© 2012 Cnes/Spot Image
Google earth

iOS / BYOD

The Goal

- Provide services to pupils and teachers - huge potential!
- Start by running pilot project in Genolier

iOS / BYOD

The Pilot: Genolier

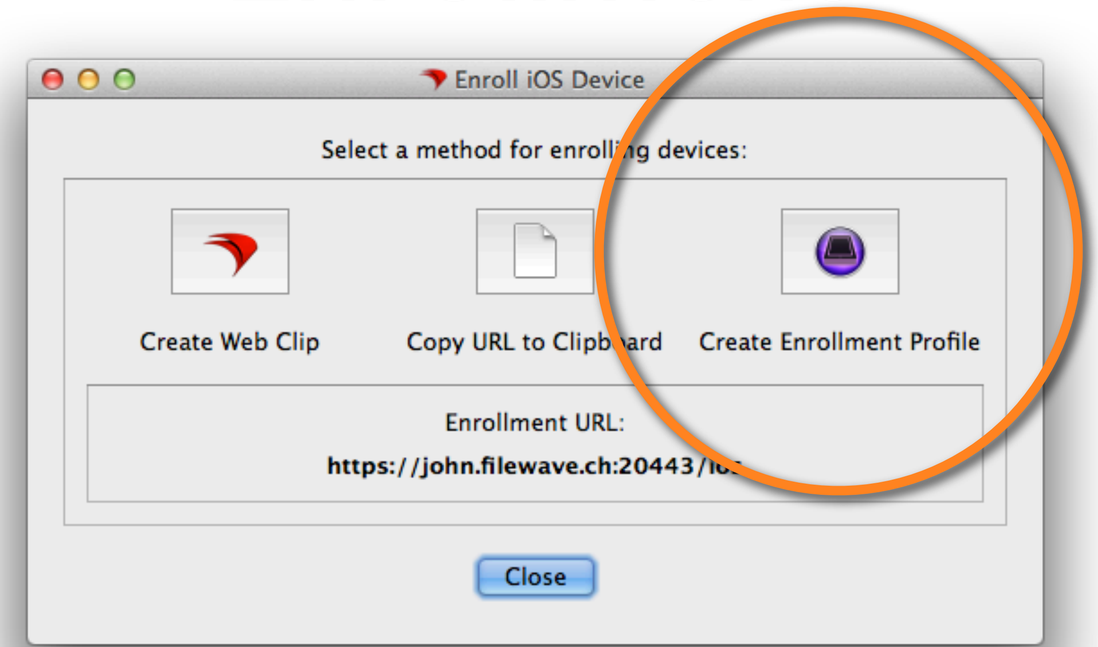
- Using a strong and reliable wireless network.
- Working on building our own Cantonal app catalog.
- Testing rollout / management (profiles).

iOS / BYOD

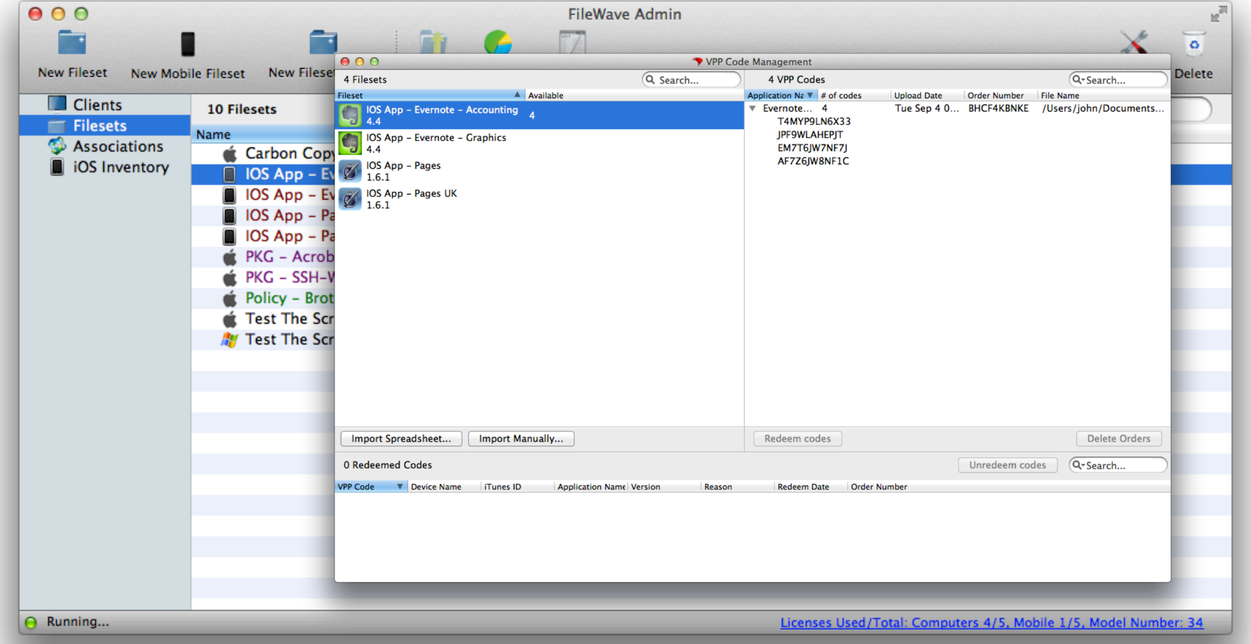
There are some questions:

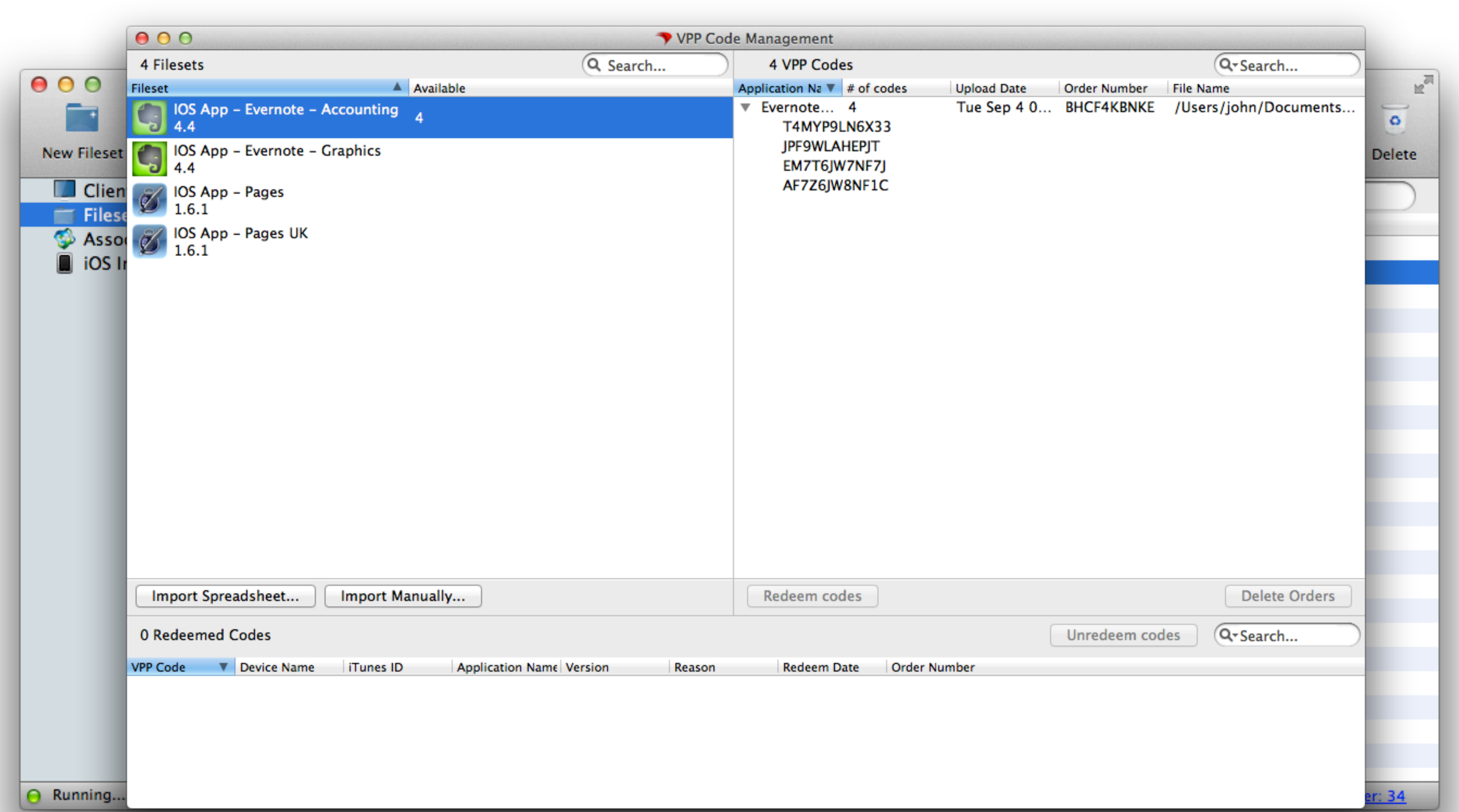
- How to enroll the devices?
- MDM profile can be removed?
- Distribution of paid apps isn't "enterprise" ready, requires Apple ID.
- VPP in Switzerland?

Enrollment


Enroll iOS Device
Select a method for enrolling devices:
Create Web Clip
Copy URL to Clipboard
Create Enrollment Profile
Enrollment URL:
https://john.filewave.ch:20443/
Close

VPP in FileWave




New Fileset
Delete
Running...
VPP Code Management
4 Filesets
Search...
Fileset
Available
IOS App – Evernote – Accounting
4.4
4
IOS App – Evernote – Graphics
4.4
IOS App – Pages
1.6.1
IOS App – Pages UK
1.6.1
4 VPP Codes
Search...
Application Na
# of codes
Upload Date
Order Number
File Name
Evernote...
4
Tue Sep 4 0...
BHCF4KBNKE
/Users/john/Documents...
T4MYP9LN6X33
JPF9WLAHEPJT
EM7T6JW7NF7J
AF7Z6JW8NF1C
Import Spreadsheet...
Import Manually...
Redeem codes
Delete Orders
0 Redeemed Codes
Unredeem codes
Search...
VPP Code
Device Name
iTunes ID
Application Name
Version
Reason
Redeem Date
Order Number

VPP Code Management

4 Filesets

Search...

Fileset	Available
IOS App – Evernote – Graphics 4.4	2
IOS App – Evernote – Accounting 4.4	2
IOS App – Pages UK 1.6.1	
IOS App – Pages 1.6.1	

2 VPP Codes

Search...

Application Na	# of codes	Upload Date	Order Number	File Name
Evernote…	2	Tue Sep 4 0…	BHCF4KBNKE	/Users/john/Documents…
T4MYP9LN6X33				
AF7Z6JW8NF1C				

Import Spreadsheet... | Import Manually...

Redeem codes | Delete Orders

0 Redeemed Codes

Unredeem codes

Search...

VPP Code	Device Name	iTunes ID	Application Name	Version	Reason	Redeem Date	Order Number

New Fileset | Delete | Running...

iOS / BYOD

Summary

- Enrollment & enterprise questions...
- Pilot has the potential to scale to 100,000 devices.
- FileWave & Canton Vaud working actively together.

Q & A session

Ritz, Bastionsplatsen 2