



Apple's iOS5 & iCloud

Great Ideas, Wonderful Design, &
Huge Security Impacts

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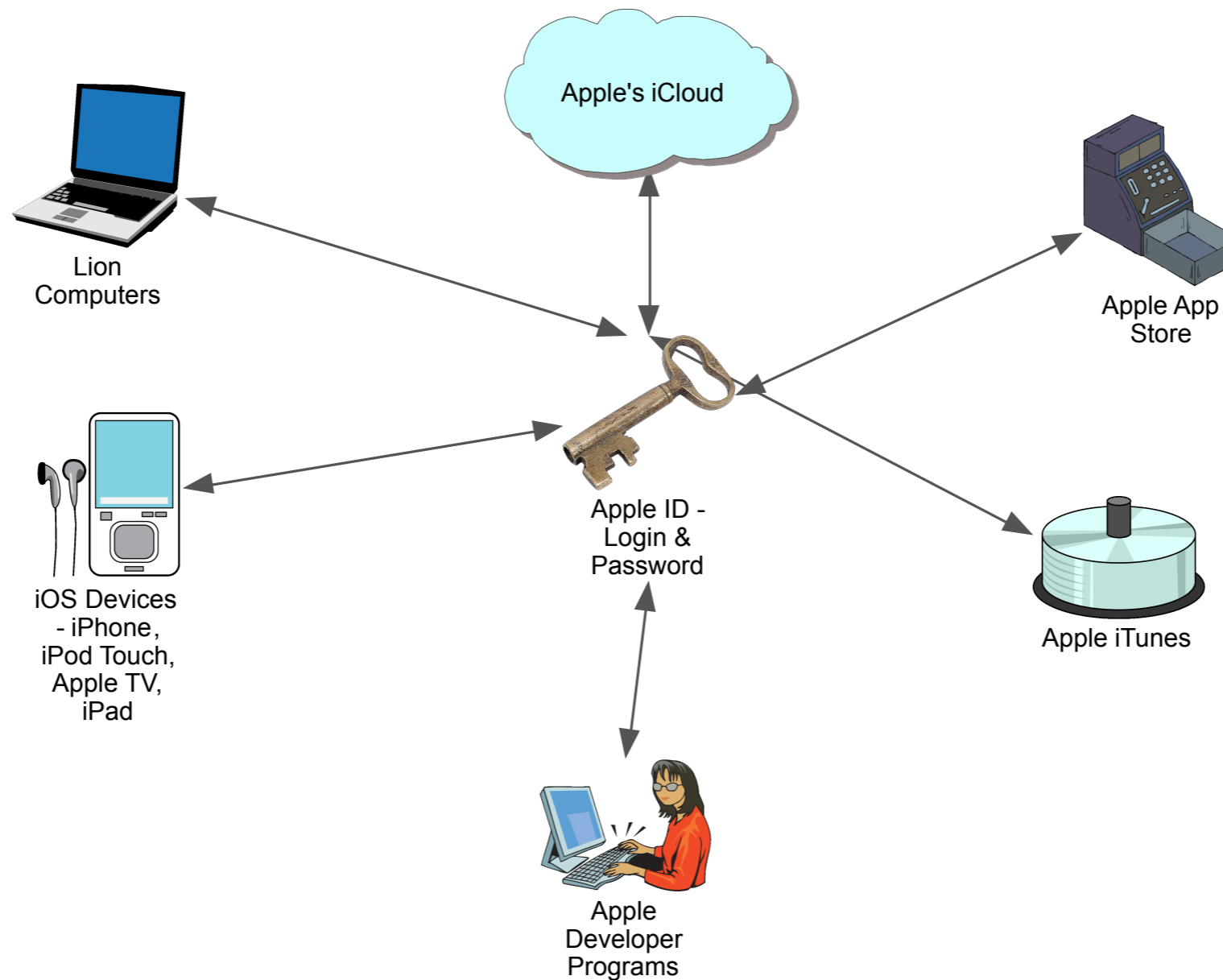
Caveats...

- TM's Apple, Inc. - Not affiliated or endorsed.
- I'm "sort of" an Apple fan boy...
- Not slamming Apple or "the Cloud"
- Rational to use both & we all will...
- The sky is NOT falling
 - But WE ALL need to consider a few things...

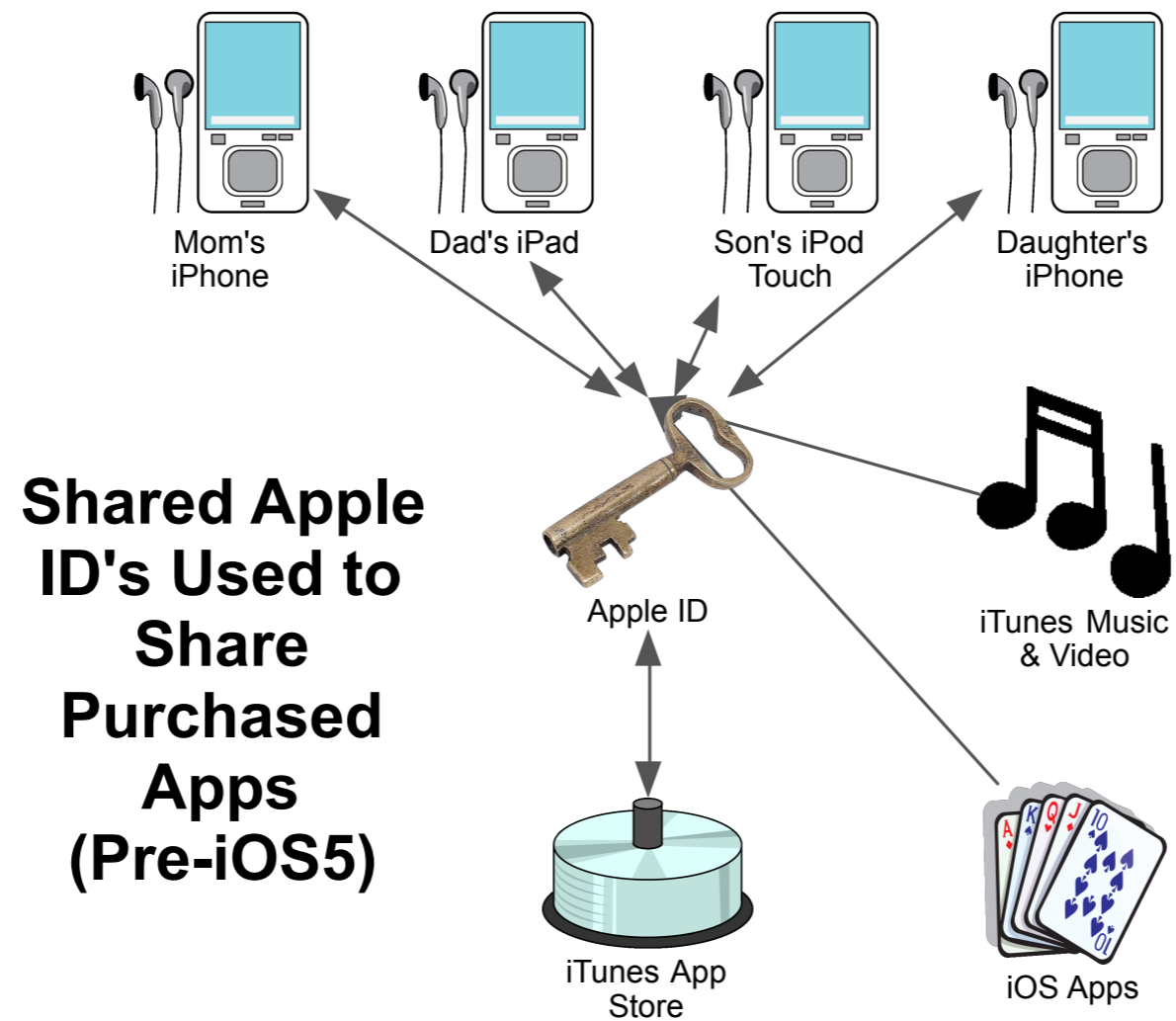
Lion, iOS5 & iCloud

- Lion = Roaring!
- iOS5 = dev now, Fall 2011
- iCloud = dev now, Fall 2011
- Time keeps on ticking...
- “Are you thinking what I’m thinking, Pinky?”





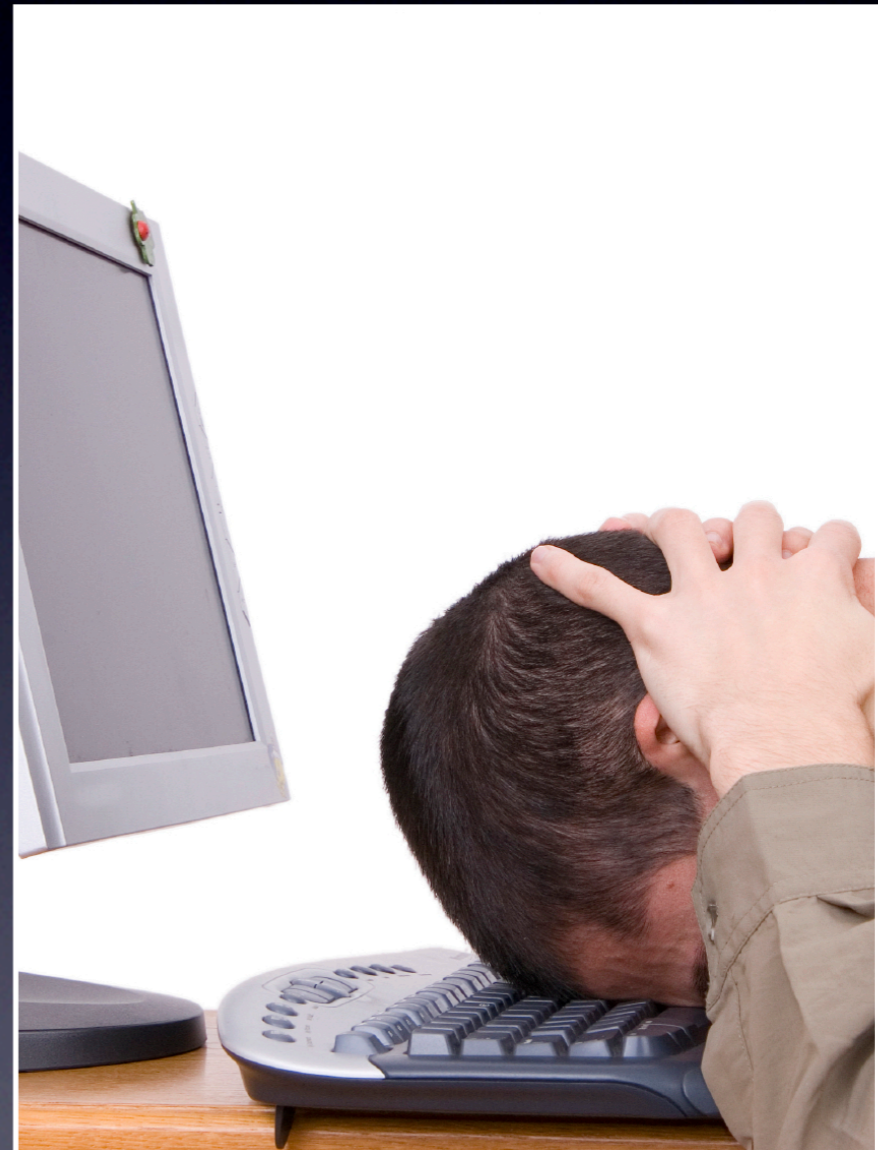
The Apple ID is Key



Buy Once, Use Many...

So...

- Shared Apple ID's
 - ID/Passwd Only
 - No splits, changes or the like...
- Most users sharing Apple ID as a matter of practice.
- Users consider all data as “local”, even when it's not...

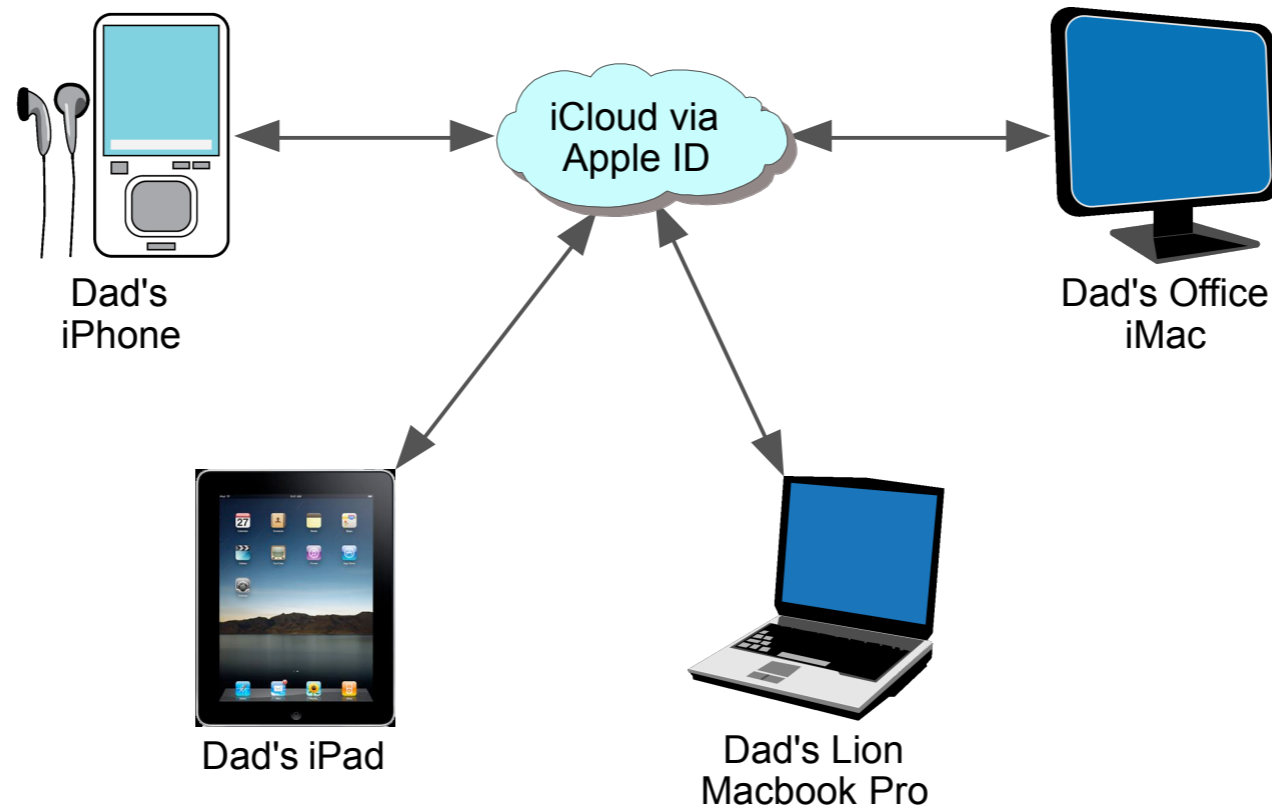


Syncing Is Hard...



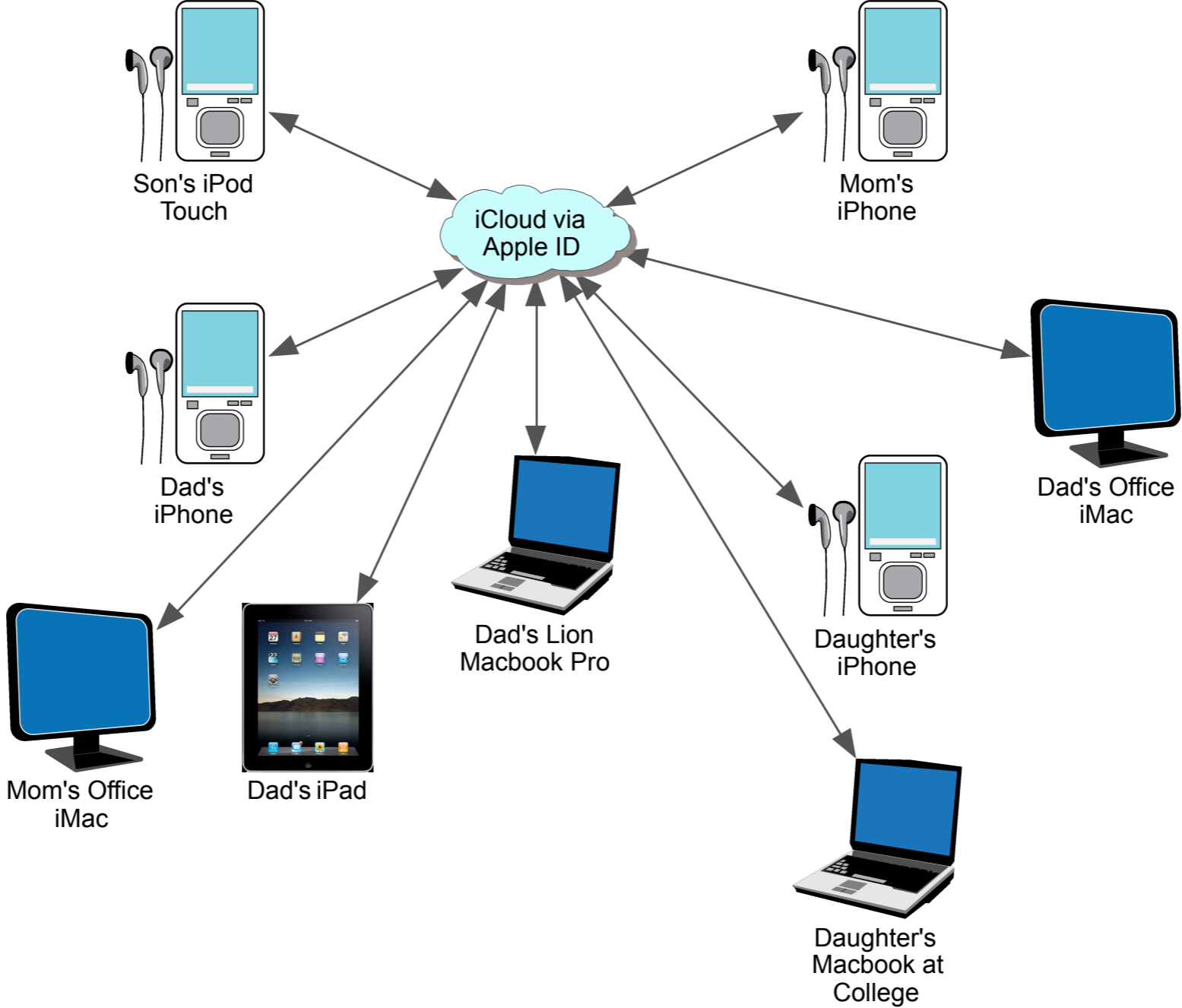
- “...It’s driving us **CRAZY!!!!**” -- Steve Jobs
- Enter, the iCloud
- Sync everything, anywhere...

Standard Syncing, including Documents, Photos & Other Data (iOS5 Model)



iOS5 Idealism

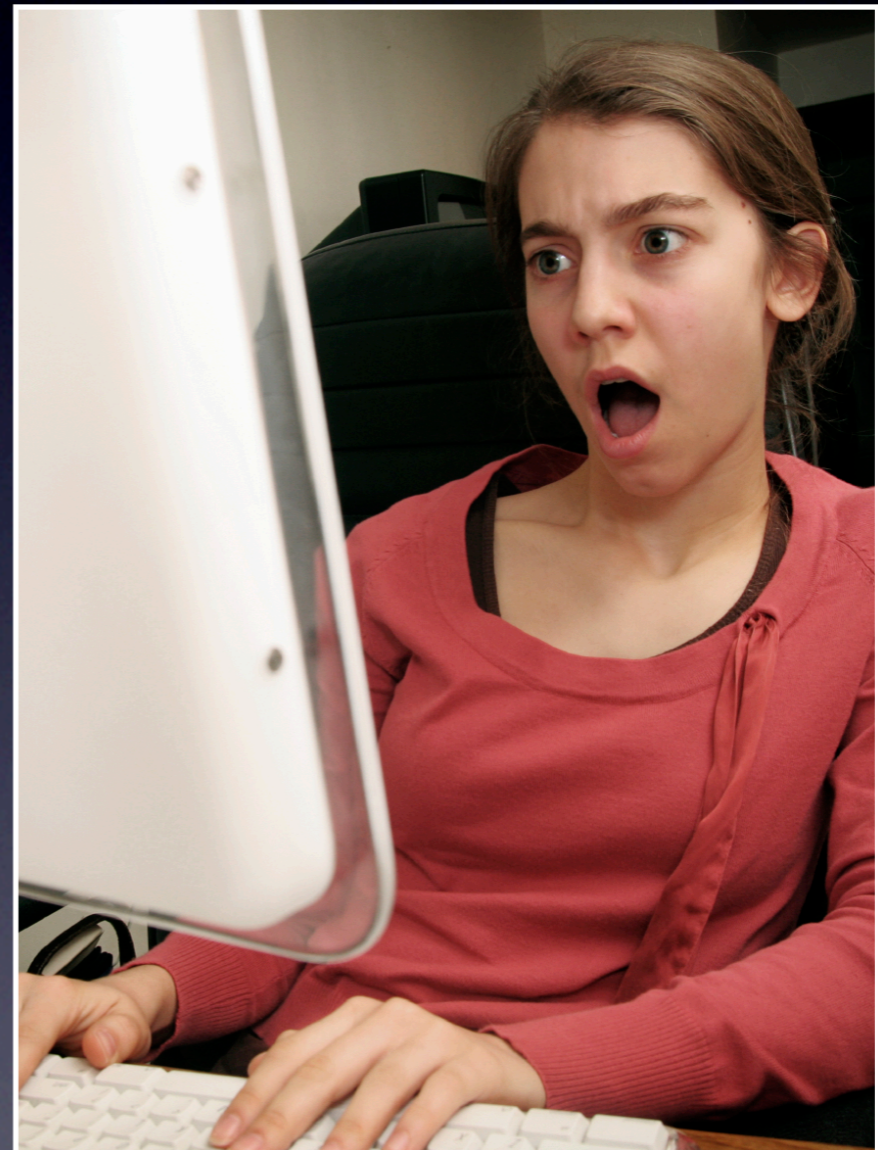
Remember Shared AppleID Model? Now CRITICAL...



iOS5 Reality...

I Shared What???

- All the normal sync stuff...
- Photostream? Um, yeah, photostreams...
- iWork documents? Uh huh... That too!
- API's for other apps...
"That went where???"



Hmmm...

- Good news...
 - You are hearing about it now
 - SSL for most/all transit
 - Vague references to AES 256 in iCloud
 - Apple selling a LOT of stuff...
- Bad news...
 - No RBAC
 - No tokens
 - Ppl already asking about using for PII
 - Data will be flowing in fall if not already...
 - Apple sells a lot of stuff to powerful ppl...

Remember...

- We've been talking about learning to balance business & risk for YEARS
- Productivity gains outweigh risk in most organizations
- **Now is the time to step up to the plate!**



Actions...

- NOT to do...

- Ignore or try & ban
- “I can block this at the firewall...”
- “This is an HR issue...”
- Fail to understand this is the BEGINNING of the consumer cloud push, NOT THE END

- Suggest you do...

- Think & talk about it
- Develop user training
- Create a plan
- Cryptography may help, maybe...
- Apple will likely create controls, slowly...

Thanks & More Info.

- Apple developer documentation
- Apple iCloud documentation
- bhuston@microsolved.com
- [@microsolved](#), [@lbhuston](#)
- stateofsecurity.com



Security is a
journey...