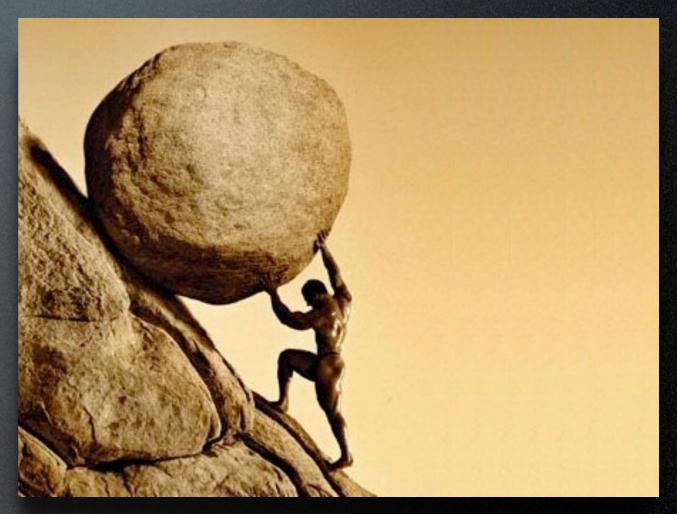
# The Cybersecurity Landscape

Ronald L. Chichester, JD, CFE, CISA Ronald Chichester, P.C. Advanced Business Law Seminar Houston, Texas November 19, 2015

## Overview

- The Current Situation
- The Breach
- The Discovery
- The Confession
- The Consequences
- The Aftermath



#### Cast of Characters

- The Miscreant(s)
- The IT Person(s)
- Law Enforcement
- The Management
- The Lawyer(s)
- Agency Lawyer(s)
- Investors



#### The Current Situation

- It's bad
- ... and it will get MUCH worse
- The DR's are not the only concern



## The Current Situation

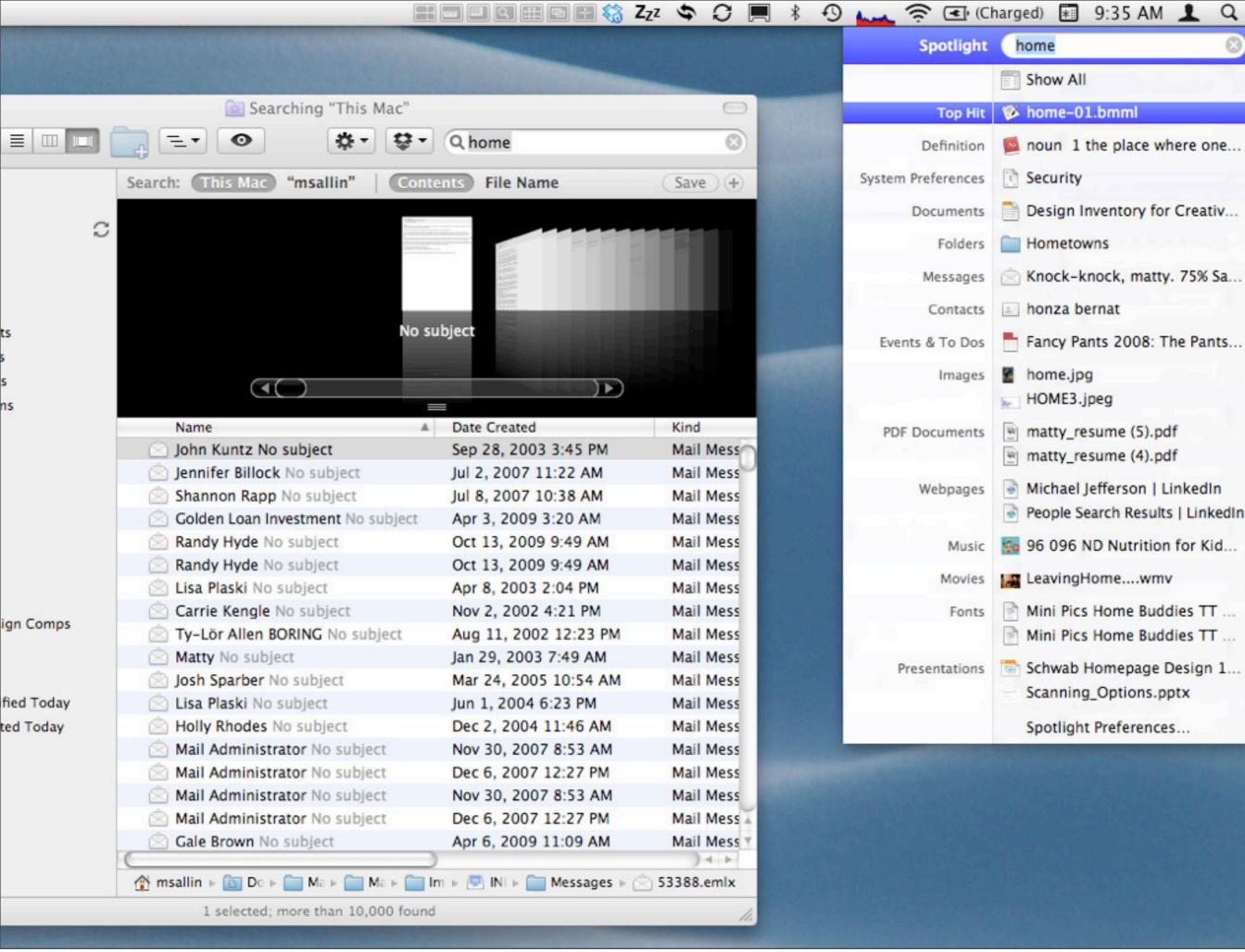
- NSA broke into 50,000 networks (worldwide) and planted malware
- Other State Threat Actors
- Low cost of entry
- Far more sophisticated malware

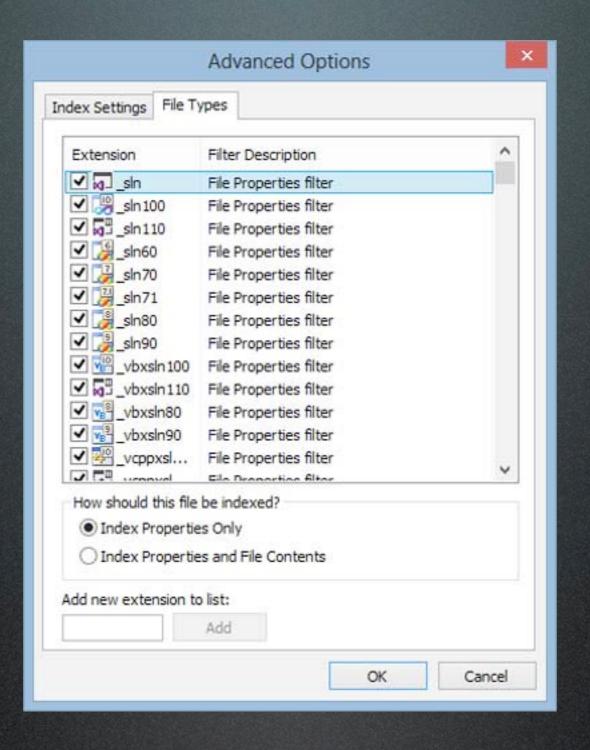


# Points of Vulnerability

- Windows & OS X
- Unencrypted files
- Unencrypted databases
- Unencrypted backups
- System Indexes







## The Breach

- Let me count the ways...
  - Social engineering
  - Inside job
  - Lost laptop
  - Less protected (but trusted) law firm



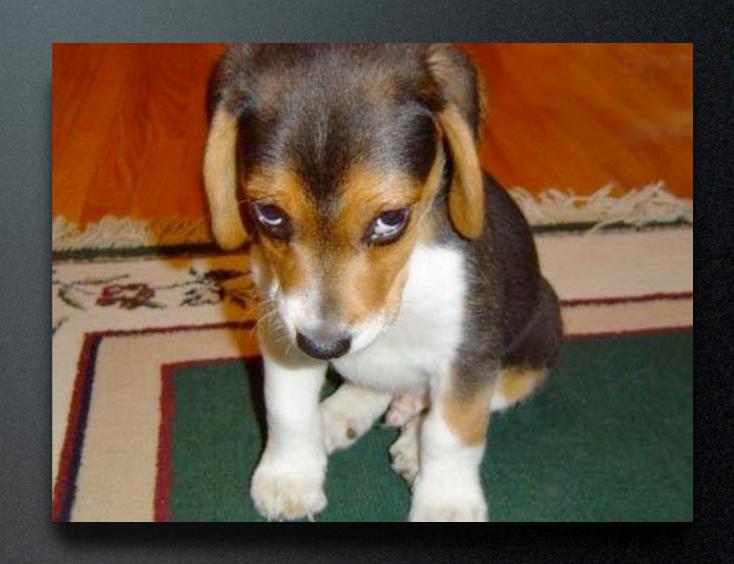
# The Discovery

- Need to find it
  - Monitoring
  - Customer complaint
  - Threat email
  - ... (ad nauseam)
- Start the Clock



## The Confession

- You have to help determine...
  - Whom to tell
  - What to tell them
  - When to tell them.



#### Timeline

- Activate Response Team
- Call Insurance Agent
- Call the Attorney(s)
- Assign Coordinator
- Preserve the Evidence
- Call Law Enforcement
- Notify Government Agencies\*
- Decide Who to Notify
- Offer Credit Monitoring
- Draft Press Release
- Draft FAQ's
- Notify Credit Card Companies



#### Timeline

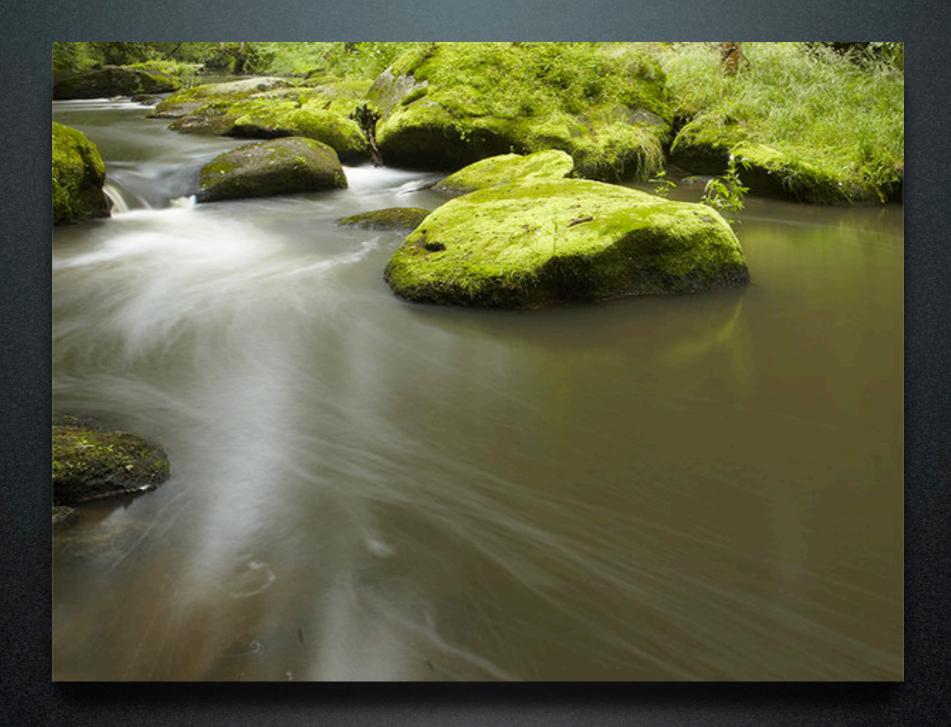
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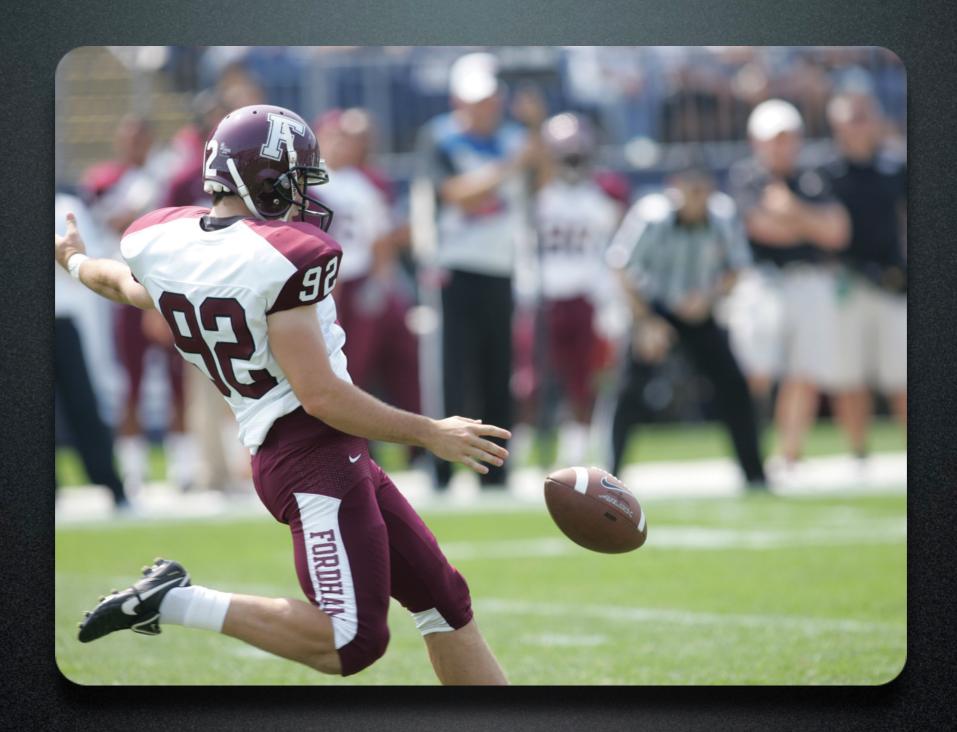
## The Clock is Ticking...

- Lots of laws (may) apply
- Some have short fuses
- You have to find out which states are affected
- You have to find out what kind of data was accessed or copied





# What the law should be



But the Feds...



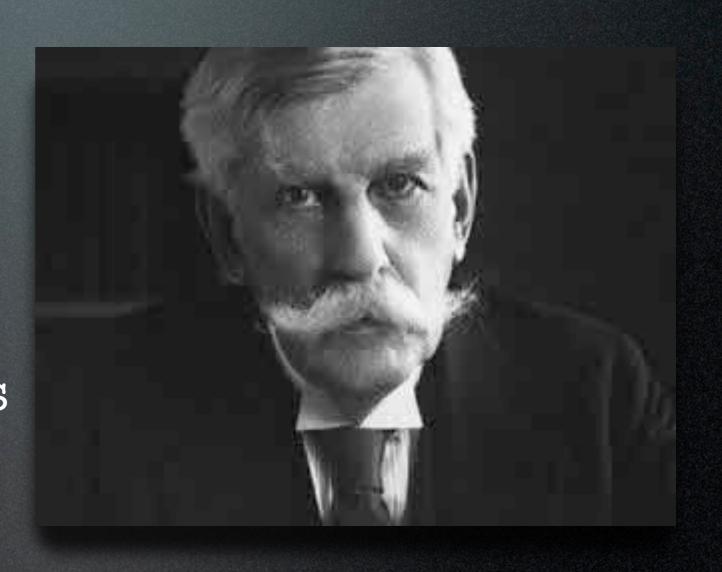
... and so the states...



...gave us a mishmash

## Oliver Wendell Holmes

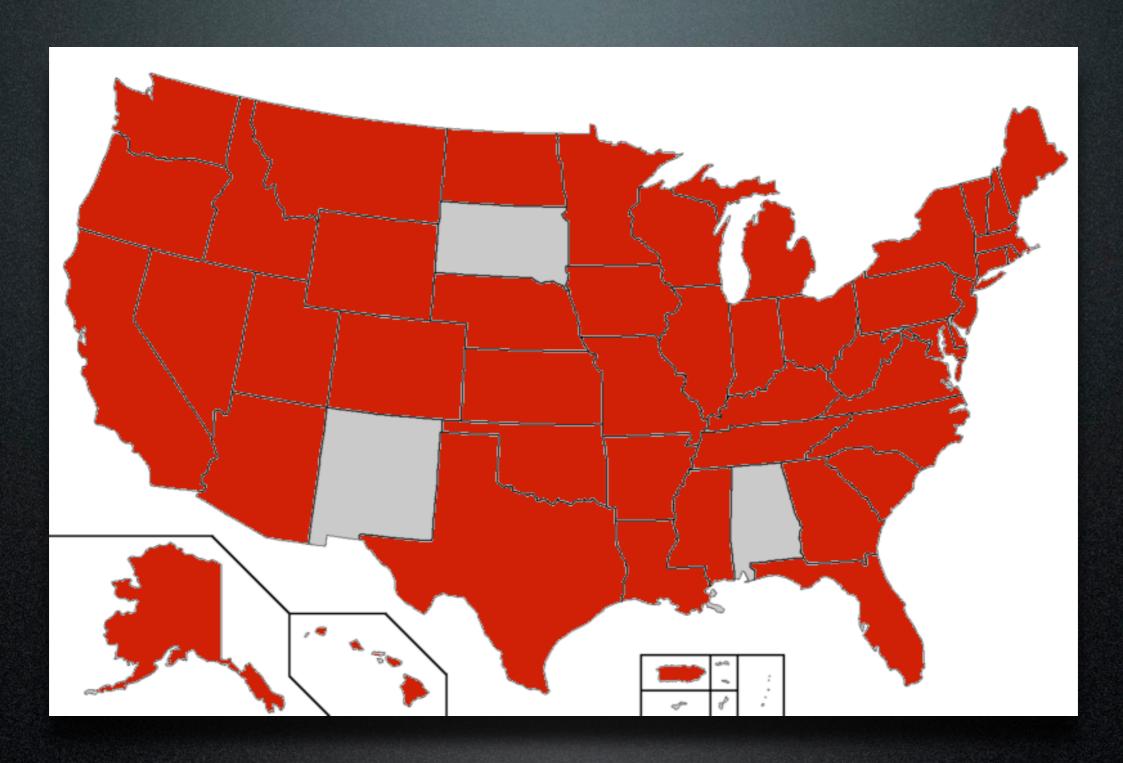
- The young man knows the rules...
- ... but the old man knows the exceptions



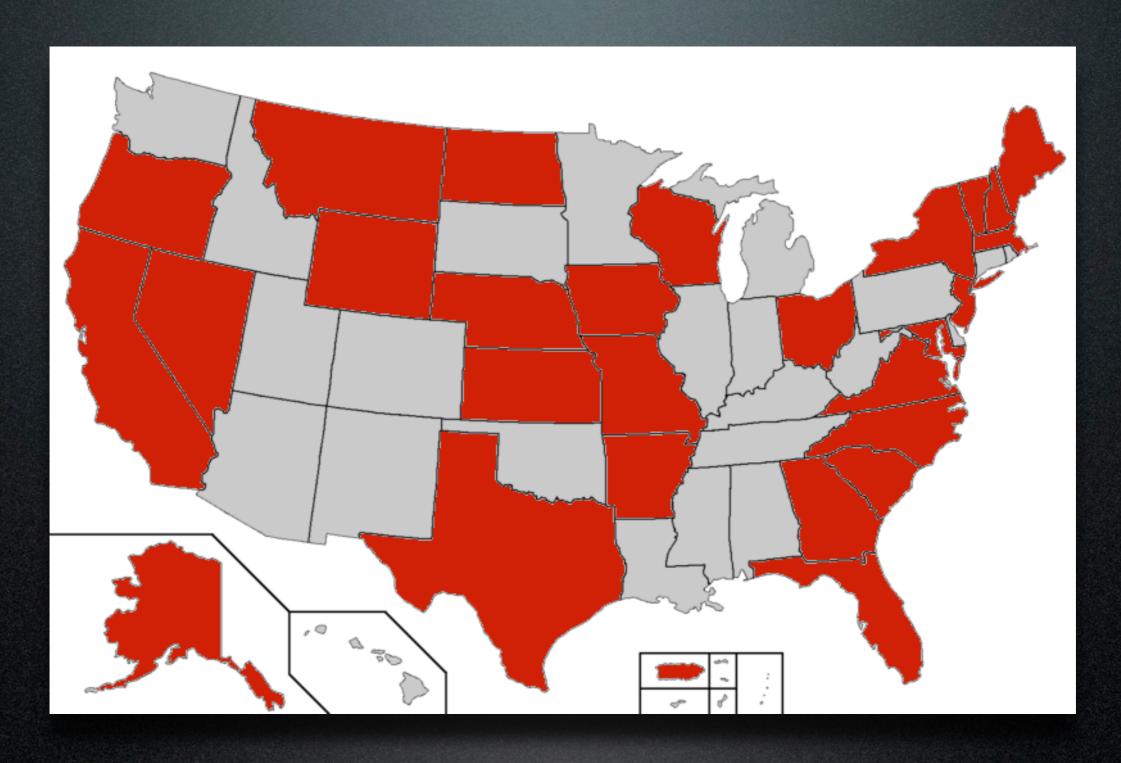
#### The Rules

- Personal Information
  - Common elements (First Name, Last Name, Gov't ID, Bank #, etc.)
- Breach of Security
  - The unlawful and unauthorized acquisition of personal information that compromises its security, confidentiality or integrity





Safe Harbor for Encryption



Broader definition of "Personal Information"

#### Broader Definitions

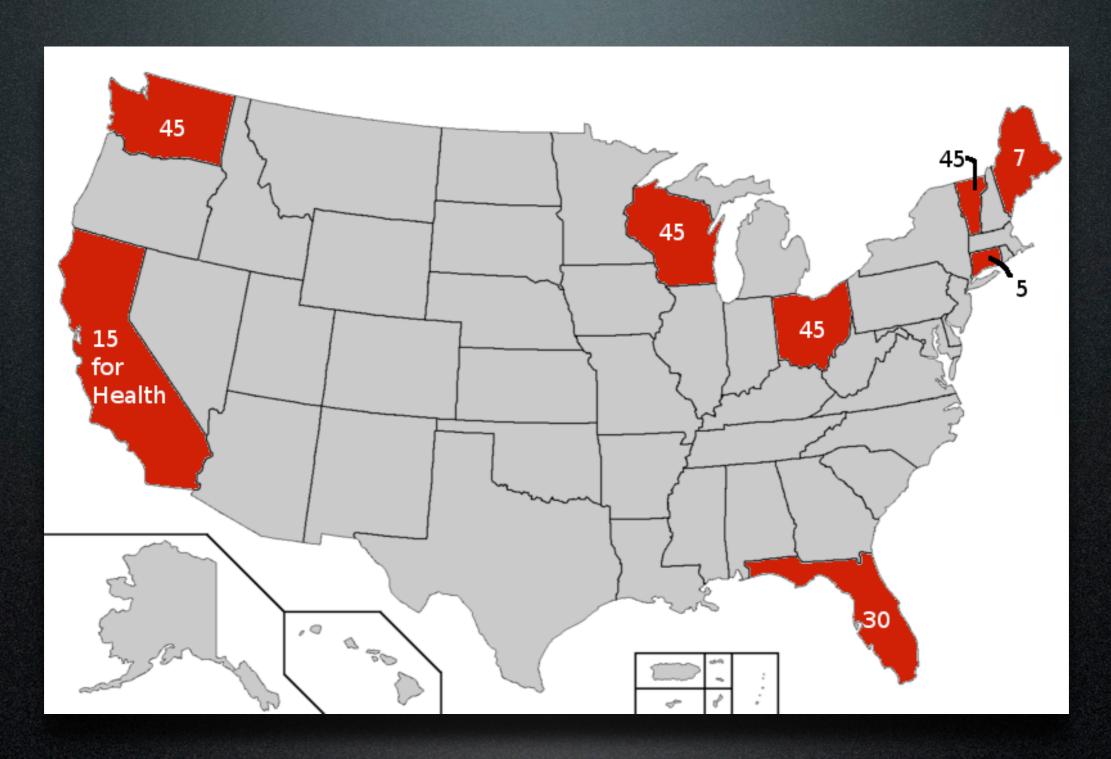
- Passwords to online accounts (CA, NV) (But NC expressly excludes)
- Taxpayer ID (MD, MT)
- Passwords to financial accounts (AK, FL, GA, IA, KS, ME, MA, MO, NY, ND, OR, SC, VT, WY, D.C., PR)

#### Broader Definitions

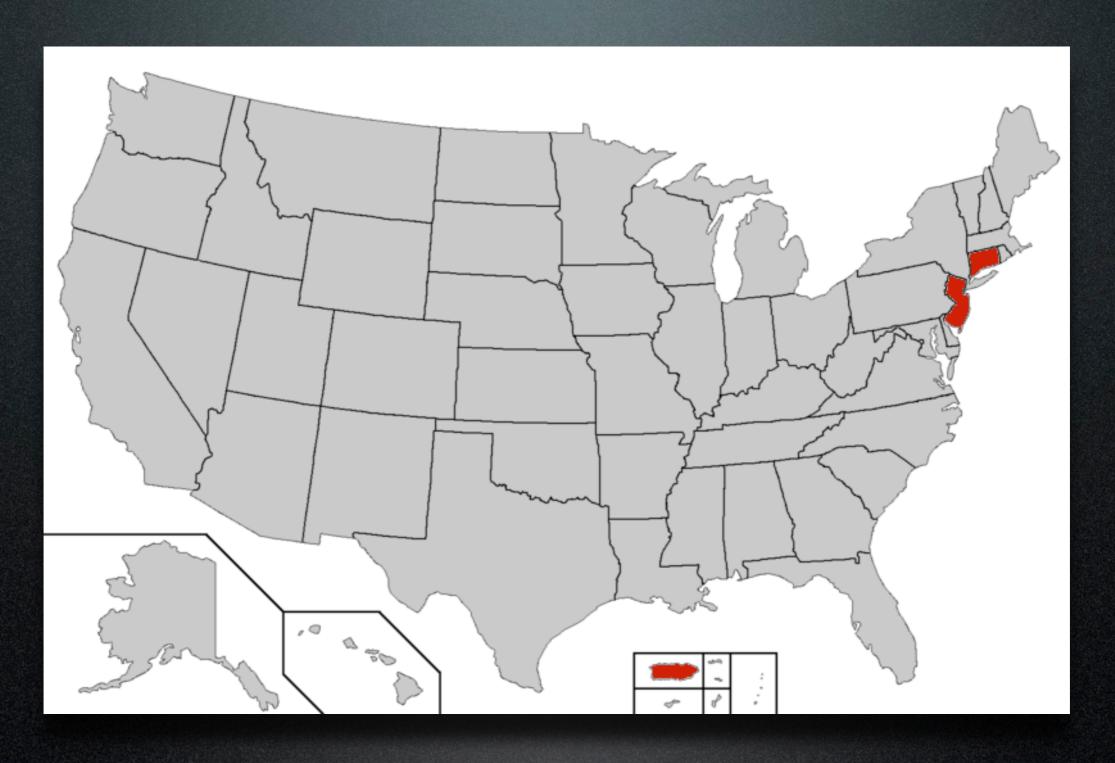
- Financial account info with or without password (MA)
- Dissociated data -- if linked (NJ)
- Biometric data (NE, NC, VA)
- Digital/Electronic signature (ND)

#### Broader Definitions

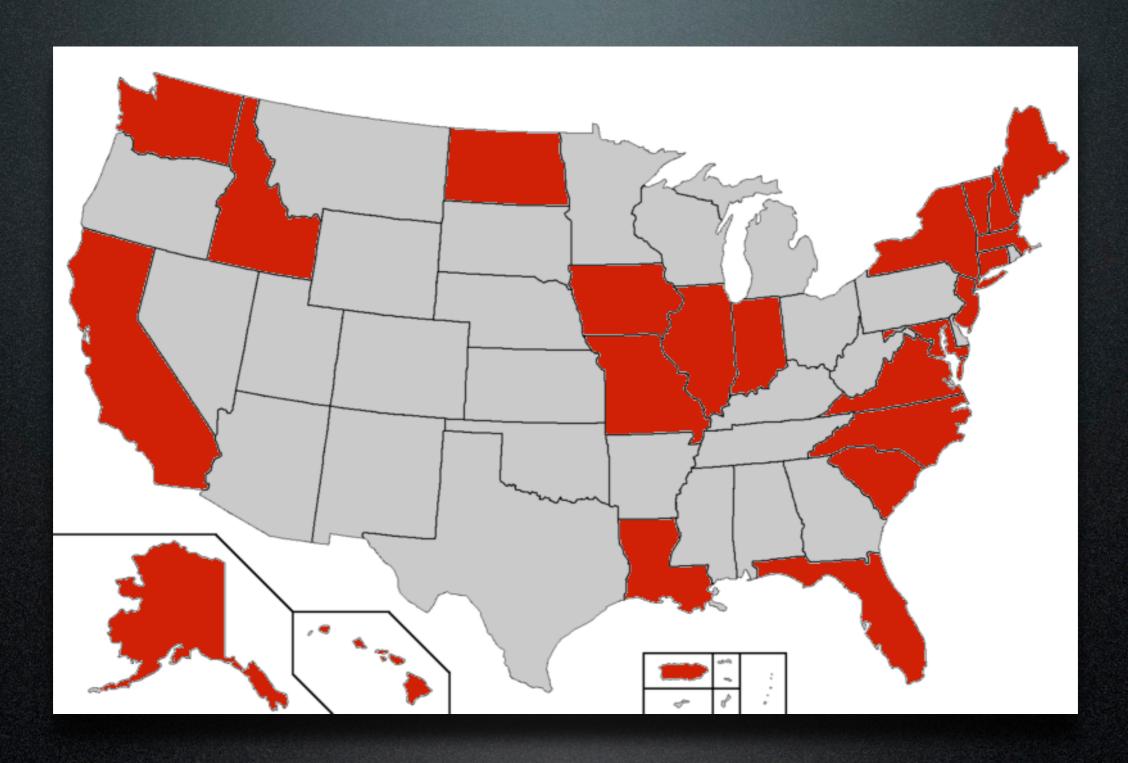
- Health ID for med account (NV, WY)
- Medical information & history (AR, CA, FL, MO, MT, NH, ND, TX, VA, WI (DNA only), WY, PR)



Short-fuse Timing for Notification



Trigger on Access (not Acquisition)



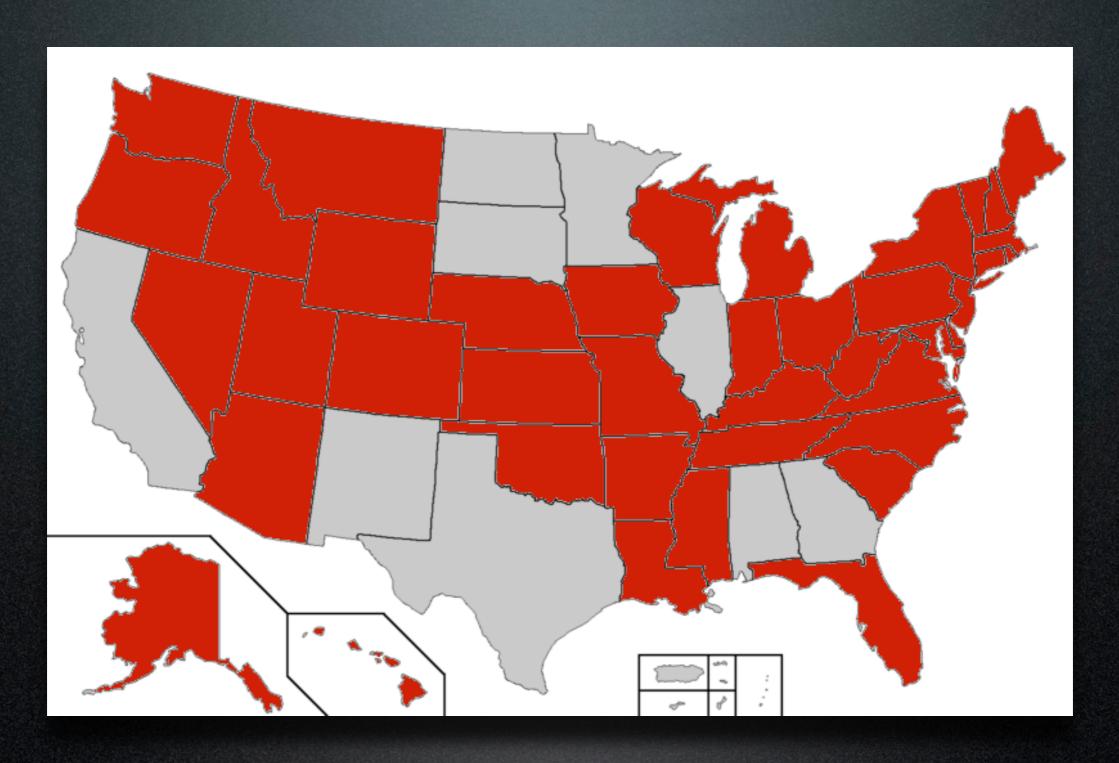
Notify the Attorney General or State Agency

# Notify the State Gov't.

- Notify government if X customers are to be notified.
  - I or more CT, IN, LA, MD, MA, MO, MT, NH, NJ, NY, NC, PR, VT
  - 250 or more ND
  - 500 or more CA, FL, IA, WA
  - 1000 or more HI, MO, SC, VA

# Notify the State Gov't.

- Notify government if its agency was breached. (ID, IL)
- Notify government if the entity is governed by a professional or financial regulatory agency. (ME)
- Notify government that no notice required. (AK)



Risk of Harm Analysis

## Risk of Harm Analysis

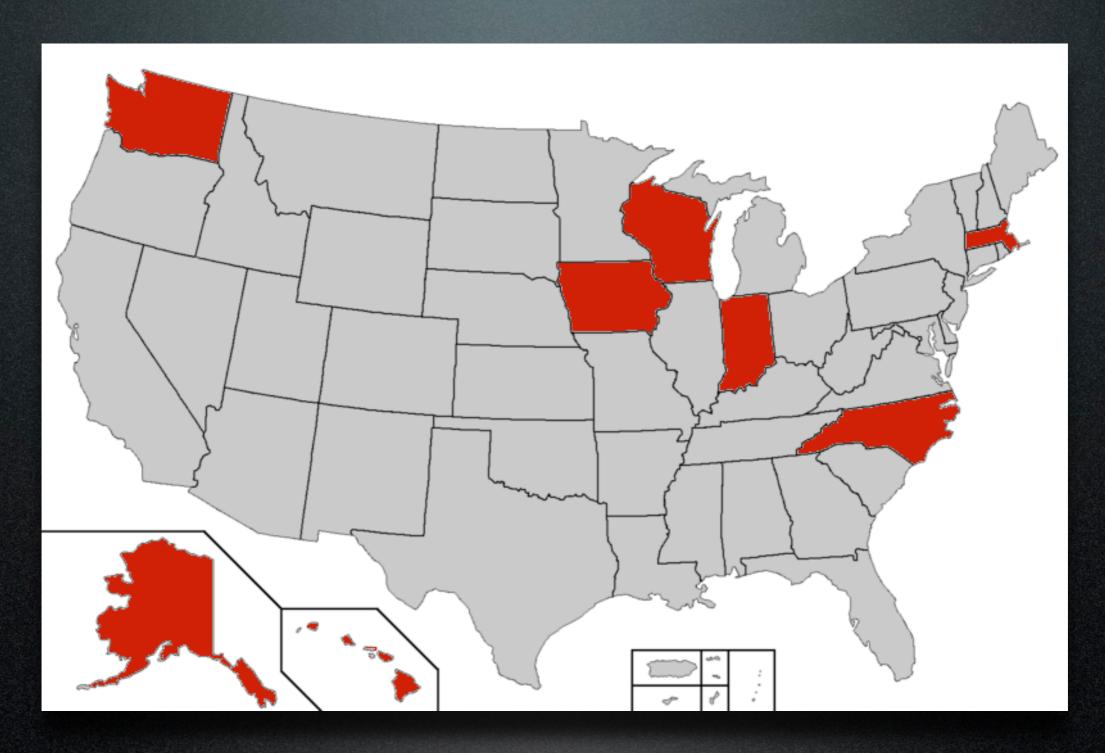
- Have to determine whether there was or is a reasonable likelihood that harm to the consumer has or will result. (AK, AR, CO, CT, DE, HI, ID\*, IN, IA, KS, KY, LA, ME, MS, MO, NE, NC, OH, OK, OR, RI, SC, WA)
- Have to determine if there was <u>material compromise</u> (AZ, ID\*, MT, NV, PA, TN, WI, WY)

## Risk of Harm Analysis

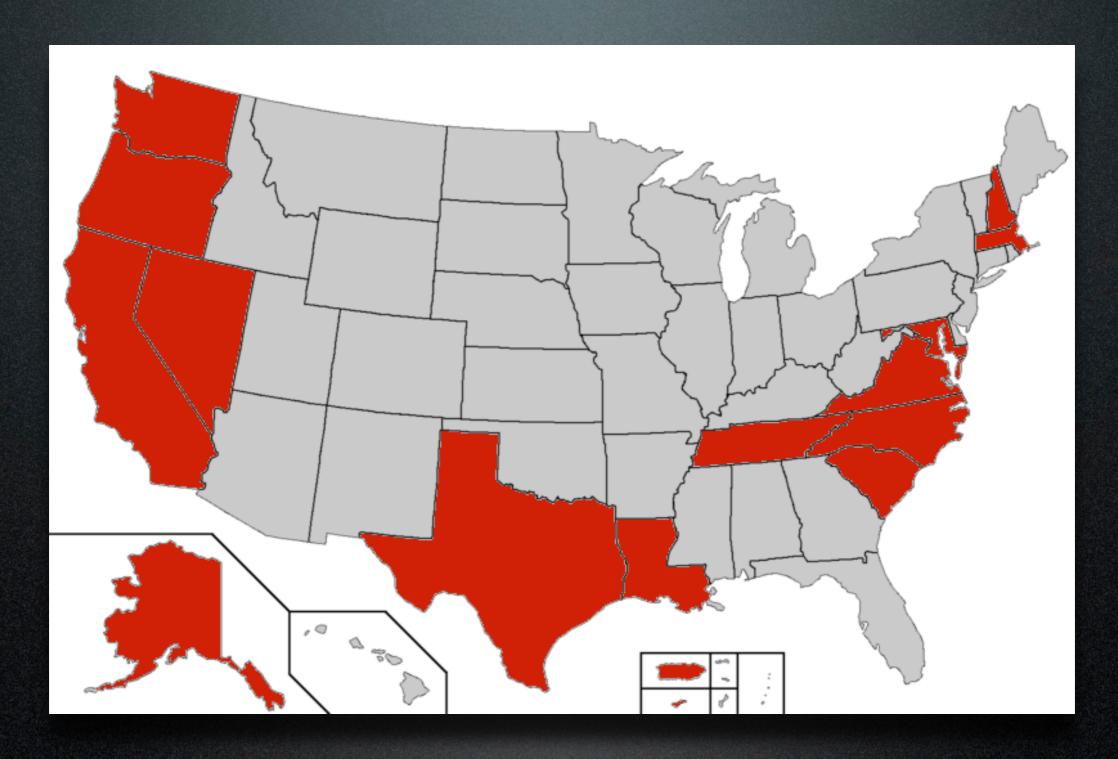
- Have to determine if the PI was not and will not be misused as a result of the breach. (MD)
- Have to determine if there is a substantial risk of identity theft (MA)
- Have to determine if the breach <u>has or</u> is likely (or will) to cause substantial loss or injury. (MI, VA, WV)

## Risk of Harm Analysis

- Must determine if there was no misuse of data and not reasonably likely to occur. (NH, UT)
- Must determine if misuse is not reasonably possible. (NJ, VT)
- Must determine if there are "indications" of misuse. (NY)



Paper included in Breach Rubric



Private Cause of Action Permitted

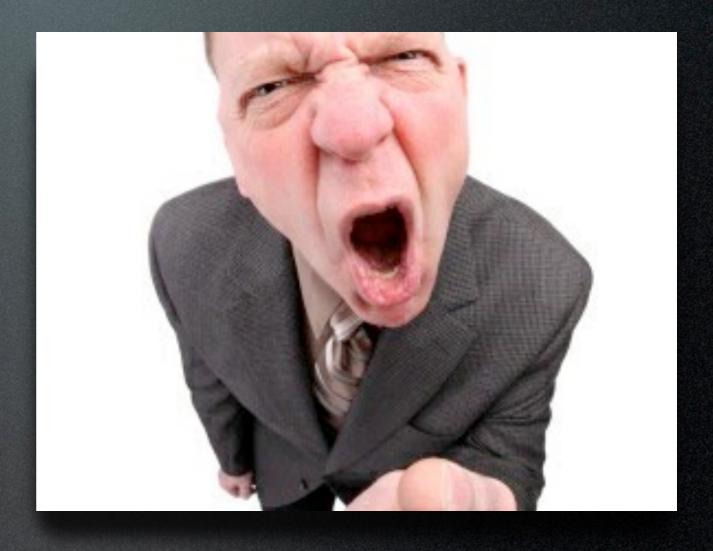
#### Private Cause of Action

- Litigation Hold Notice must be imposed
  - In addition to law enforcement effort
  - Includes policies/procedures/audits
  - Emails, server logs

• ...

## Private Cause of Action

- DR 1.05 violation?
- Malpractice?
- Clients seeking indemnification from the firm that "allowed" or facilitated the breach?
- Law firm as scapegoat?



## Federal Laws

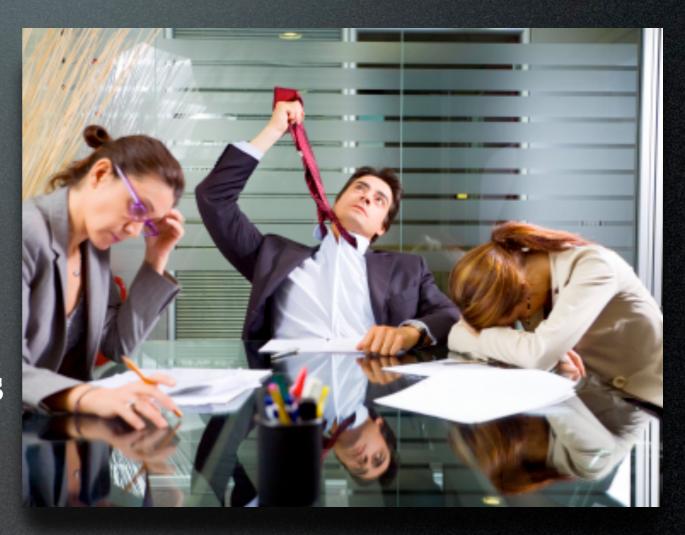
- FTC Act
- Securities
- CFAA
- GLBA
- HIPAA
- COPPA
- Many more...





# What to Expect

- IT will have to find answers QUICKLY
- You will need to make a distinction between access and acquisition
- You will need to supply a full list of what data types were compromised
- You will have a short fuse



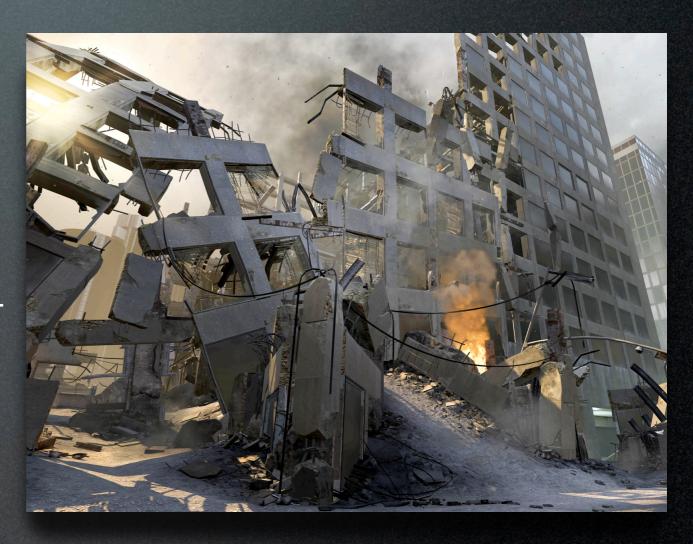
# The Consequences

- Exposure to losses
- Lost sales/reputation
- FTC Action for Violations of Privacy Policy
- 20 years of IT auditing
- Disclosure in SEC 8-K and/or 10-K filings



### The Aftermath

- In the past, there were few consequences
- Not so today
- This can get a CEO fired
- Future board members likely to have IT expertise



## Conclusions

- Watch what the FTC and NIST defines as "reasonable"
- Active monitoring
- Use encryption
- Compartmentalize
- Rethink indexing
- Have a plan ready in case you have a short fuse on notification





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