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San Francisco | February 29 – March 4 | Moscone Center

SESSION ID: CXO-R05

DATA BREACH LITIGATION HOW TO AVOID IT AND BE BETTER PREPARED

March 3, 2016

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Agenda



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- I. Background: Where are the Data Breaches occurring?
- II. How to Be Better Prepared for When Your Company Data is Breached
 - A. Incident Response Plan – Must Haves
 - B. Components of Data Breach Litigation for the CXO
 - C. Top Ten Suggestions For Effective Management of Complex Business Litigation and Class Actions
- III. How to Avoid It: Lessons Learned & Best Practices
 - A. Top 10 Steps for Data Litigation Preparedness

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Cyberattacks and Breaches



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1,023,108,267

Records
Breached in
2014

Cyberattacks in
the United
States in 2013:

\$1.5 million

Cybercrime has cost
the global economy
annually:

\$575 billion

Reported Breaches
in 2015 for 2014:

2,122 Global (781 US)

Data records were lost or stolen with the following frequency:

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Every second
32

Every minute
1,947

Every day
2,803,036

Every hour
116,793



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Data Breaches by Industry



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Avg. Total Cost/lost or
Stolen record

\$217

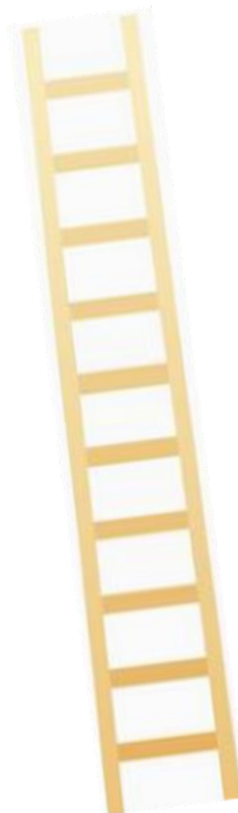


35.5%

Healthcare

Avg. Total Cost of a
Data Breach

\$6.5 million



40.0%

Business

(Retail / Utilities
Travel / Hospitality
Transportation / Others)

9.1%

Financial

8.1%

Government /
Military

7.4%

Education

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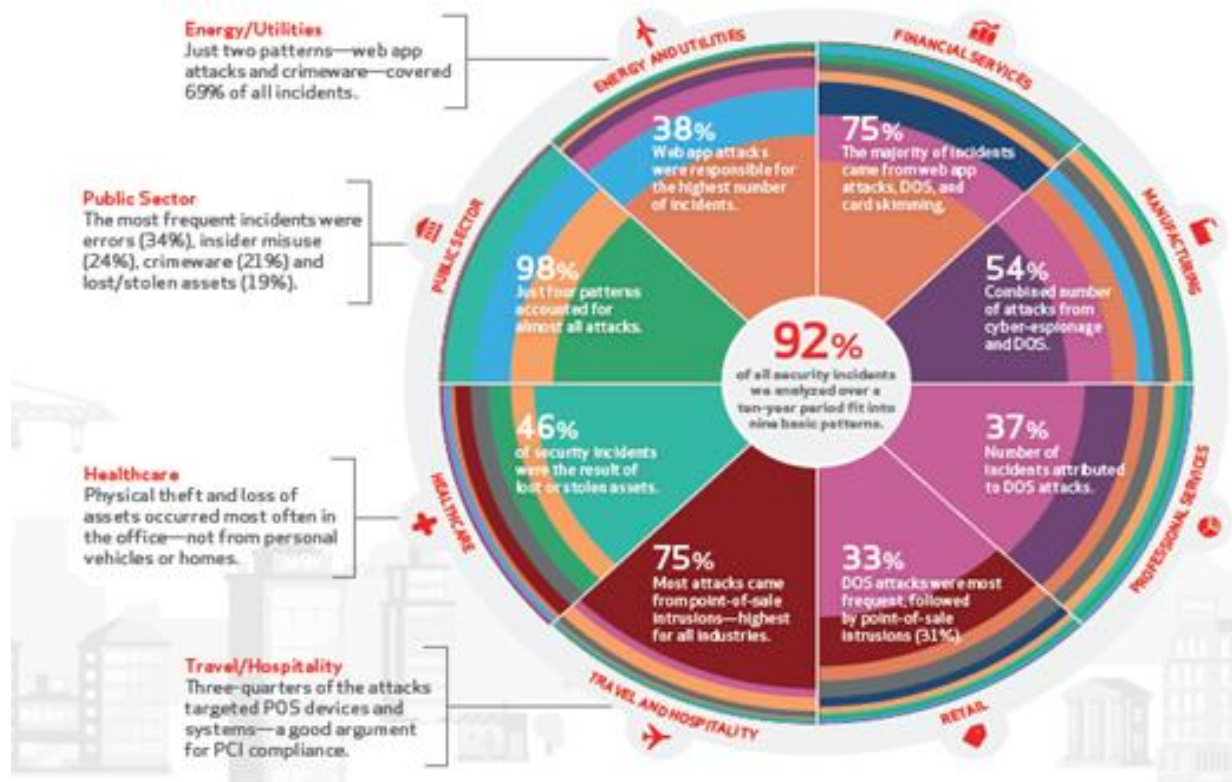
Source: 2015Ponemon and IBM Report



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Major Types of Data Breaches by Industry



Travel and Hospitality
91% up from 75 % POS

Financial Services
75% Web App attacks,
DOS, card skimming

Public Sector
98% from 4 types

Healthcare*
46% Physical theft & loss

Energy/Utilities
38% Web App attacks
31% Crimeware

Retail
31% POS 33% DOS

Manufacturing
54% CyberEspionage
And DOS

Professional Services
37% DOS

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Source: Verizon 2014 Data Breach IR





Major Types of Data Breaches by Industry

Don't Forget Data Breach can be Physical!

- Physical Loss and Theft

- Public sector, followed by Healthcare and Financial
- 55% Internal workplace
- 22% Employee owned vehicles
- Laptops, tablets, smartphones

So minor shifts between 2014 and 2015 reports

Considerations: Security Awareness Learning and Education,
Privileged Access Management

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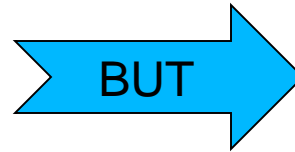
Lawsuits associated with Data Breaches



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Reported Breaches in
2014 (2015):

1,367 (781)

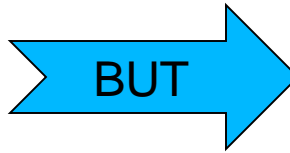


110

Lawsuits: 2014

Breaches - Retail

12.5%



60%

Lawsuits – Retail

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Incident Response – Being Prepared

1. Incident Response Plan

- ✓ Address various types of Data Breach
- ✓ Provide critical steps for reasonable investigation of each type
- ✓ Execute and do table top tests quarterly/annually
- ✓ Development and IR Team Members/Contact information
- ✓ Critical Emergency Contact List
- ✓ Identify regulated Notifications
 - ✓ Appropriate law enforcement
 - ✓ Affected parties – individuals and third parties
 - ✓ Federal Reserve Bank (FRB) / Federal Trade Commission (FTC) / States Attorney General(s)
 - ✓ Suspicious Activity Report (SAR)

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Incident Response – Being Prepared

2. Third Party/Vendor Service Provider Incident Response
3. Keep an incident timeline and document efforts taken
 - ✓ Who Reported the Breach
 - ✓ How it was Discovered
 - ✓ When and By Whom (may differ from who reported)
 - ✓ Incident Response Team meeting(s)
 - ✓ Actions taken to contain/control the breach or threat/vulnerability allowing the breach
 - ✓ Additional Third Party / Forensic / Investigative assistance
 - ✓ Regulatory notification

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Incident Response – Being Prepared

4. Critical Emergency Contacts List

- ✓ Incident Response Team
- ✓ Data Breach Coach
- ✓ Forensics expert/ Investigative expert
- ✓ Public Relations Coach

5. Educate on where to store the IR Plan

6. Don't Forget to include a Sample Breach Notification

7. Timeline for Notification(s)

But what are the legal ramifications of giving Notice... RSA[®]Conference2016





Is Notice Required?

- Take a Breath.
- Breach - Did you indeed have a breach as defined in the law?
- PII - Does the compromised information fit the definition of “personally identifiable information” as defined by the law?
- Notify - Considering the above, is there a duty to notify?
- Plan - Did you have and follow your IR Plan?



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Notice is Required: Now What?

“Sixty-three percent of respondents said notification letters they received offered no direction on the steps the consumer should take to protect their personal information. As a result, 31 percent said they terminated their relationship with the organization. Fifty-seven percent said they lost trust and confidence in the organization.”

PONEMON INSTITUTE FOR ID EXPERTS, THE CONSUMER'S REPORT CARD ON DATA BREACH NOTIFICATION, SURVEY OF 1,795 U.S. ADULTS, APRIL 2008.

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Event Response: Best Practices

- Accuracy & Speed
- Media Management
- Transparency
- Accountability
- Be Thorough
- Contacting Regulators
- Using Third-Party Firms/Partners



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Best Practices: Contacting Regulators

- Consider reaching out to regulators, such as State Attorney Generals, before issuing a breach notice in order to
 - Keep them well-informed;
 - Avoid misunderstandings;
 - Avoid unnecessary points of conflict; and
 - Request their review of the notice.
- Certain states publish notice online (e.g., New Hampshire, Washington)

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Best Practices: Documents & Regulators

- Privacy Policy
- Incident Response Plan
- Security Policies and Procedures
 - Content
 - Practice
- Security Awareness Learning and Education (S.A.L.E.)
- Business Continuity Plan
- Third Party/Vendor Management Plan

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Top Ten Suggestions For Effective Management of Complex Business Litigation and Class Actions



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1. Complex Litigation Needs to be Treated Differently – Select Appropriate Counsel
2. Avoid Side Issues – Preservation of Documents and Evidence
3. Control Costs and Budget Appropriately
4. Pay Attention to Changes In Law
5. Learn About Forum, Judge and Adversary
6. Participate Appropriately in Joint Defense Groups
7. Properly Assess the Risks of Litigation
8. Encourage Strategic Aggressiveness
9. Win the War, Not Just the Battles
10. Prepare to Win – If Appropriate, Settle Strategically

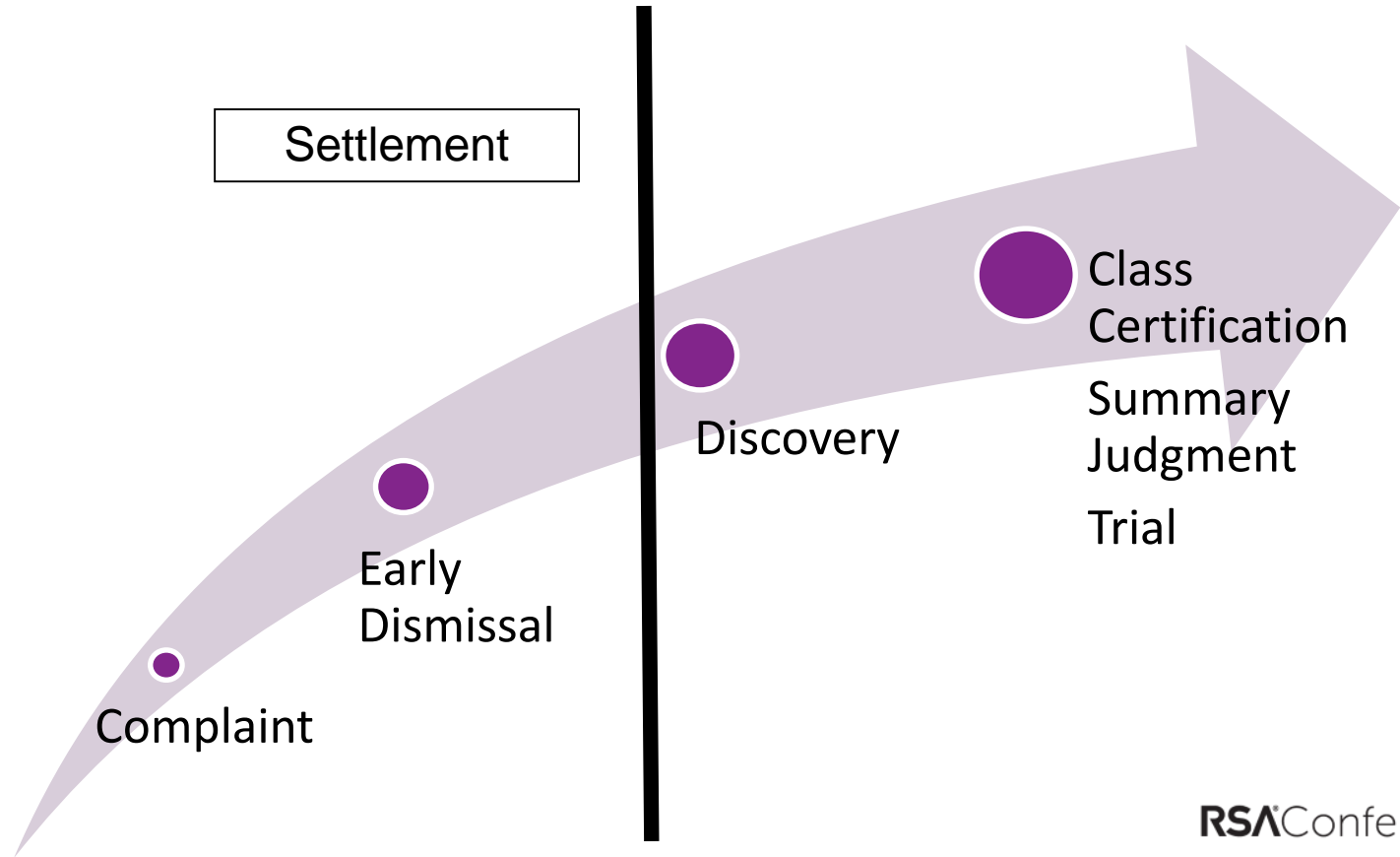
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Lifecycle of Lawsuit



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What Is In The Complaint?

- You had unreasonable information security controls
- You took too long to notify me
- You breached your promise to provide reasonable security
- I would not have paid the stated price (or done business with you) had I known you had bad data security



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Opening Move – Alleged Harm



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	Standing	Viable Claim
Unauthorized transaction (occurred)	YES	YES (but not if reimbursed)
Unauthorized transaction (future)	VARIES	NO
Time and Money spent resolving fraud	YES	YES (but not if reimbursed)
Time and Money spent protecting against future harm	VARIES	VARIES
Value of information	NO	NO
Overpayment	VARIES	VARIES

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Shifting Blame and Liability

Payment Networks Liability Shift

- EMV (EuroPay, MasterCard, Visa)
- “Magstripe” to “Chip and PIN” or “Chip and Signature”
 - October 2015
 - Exception auto fuel dispensers - June 2017
 - Why? Card related financial fraud
- Bigger issue – shift of liability for this type of data breach
 - Affects banks, credit unions, financial institutions, merchants issuing credit/debit/payment cards



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Why Are Cases Settling

- Lack of reasonable controls
- No Information Security Plan (ISP)
- ISPs inconsistent with practices
- Bad documents
- No witness



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Governance, Risk and Compliance (GRC) But We Have To...



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- The basic building blocks of any data governance plan are rooted in law and industry standards, best practices



HIPAA



GLBA, FFIEC
CyberSecurity
Assessment



PCI DSS



ISO/IEC 27001:2005

ISO 27001, NIST CyberSecurity Framework,
Top 20 CSC and other industry standards



International (i.e. EUPD), state laws and
regulations



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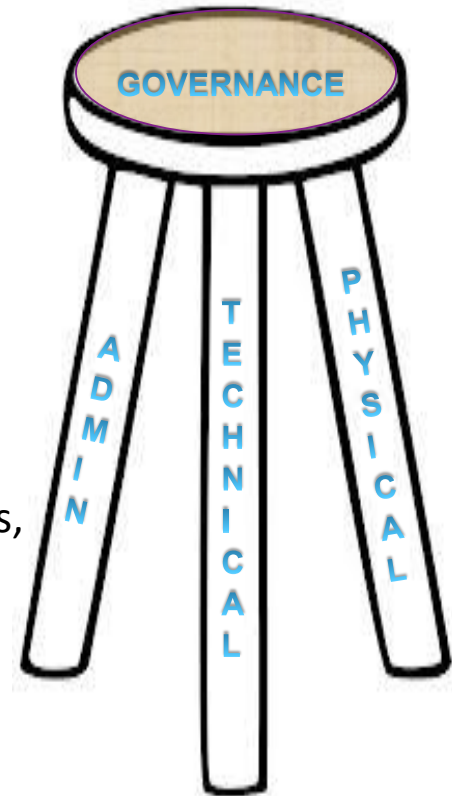


Governance, Risk and Compliance (GRC)



- GOVERNANCE is based on Administrative, Technical & Physical Safeguards
- What Your Company is EXPECTED to understand:
 - Data they collect
 - Where the Data is kept
 - How it is being used, and
 - With Whom is it Shared
 - Obligations to keep such information secure AND ensure employees, third parties, and contractors are educated to do the same
 - Obligations to mitigate harms and respond appropriately to all security incidents
- Functions are about MORE than RISK avoidance; its about creating a culture of privacy COMPLIANCE

**Step #1:
Data Classification**



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Data Classification & Data Mapping



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#1 Step of any GRC Program

- You cannot govern what you do not understand
- Define the data in external terms
 - Personally identifiable information ("PII")
 - Protected health information ("PHI") ("HIPAA")
 - Nonpublic personal information ("NPI") ("GLBA")
- Define the data according to internal standard
 - High, medium and low risk
 - Level I, II & III
 - Confidential, Public & Proprietary
- You cannot safeguard what you cannot locate
- Map existing locations where PII/NPI/PHI is stored
 - Technical locations: databases, servers and systems
 - Physical locations: office, floor and office buildings
 - Don't forget the "cloud"
- Map of existing data flows
 - Internal: between locations
 - External: from internal locations to external locations
- Map of existing applications
 - Internal: what functions and what data
 - External (including cloud): what functions and what data

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Administrative Safeguards

- Drafting policies (the "why")
- Drafting procedures (the "how")
- Educate on policies and procedures
 - Regularly scheduled training sessions
 - Assessments
 - Evaluation of competency
 - Awareness program (there is a difference)
- Programs with Documented Plans
 - Incident Response Plan with Data Breach Response
 - Business Continuity Plan
 - Security Awareness and Learning/Training Plan



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Defense In Depth

Perimeter (Network Layer)

Boundary Routers Firewalls Proxy Servers VPN SIEM
NIDS/NIPS RADIUS NAC Gateway AntiVirus/Malware Spam Blockers

Software (Application Layer)

Application Proxy Web Service Security Integrity/Validation
Content Filter Data Encryption Identity Management

Personnel (User Layer)

UserIDs/Passwords, PKI, S.A.L.E.
Multifactor-Authentication, Tokens
Chip and PIN (EMV), Need to Know

Host (Platform Layer)

HIDS/HIPS Host AntiVirus/Malware Anti-Spyware
Patch Management Server Certificates

Physical Security

Cardkey Entry Locks Laptop Locks Credentials/ID Badges RFID
Biometrics Surveillance Cameras Freon (Fire Retardant)
Desk & Office Keys Security Guards Perimeter Fences

Policies & Procedures

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Tensions in Data Governance



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Security	vs.	Privacy
Obligation to provide security for personal information and other confidential material		Rules for processing Personal Information (and analogs outside the EU)
Quick response to attacks and changing strategies		Requirements to obtain user consent and register applications/processing
Need to retain log and traffic data for analysis		Restrictions on data retention
Need to consolidate data for analysis		Export limitations on "personal data," banking information and "state secrets"
IT Operational Business Needs		
Obligation to keep systems available/operational SLAs Customer experience Time to market Expense Concerns Technology needs Retain everything Competitive pressures Internal Deadlines for Project Implementations		

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Data Governance



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- Finding a balance between:
 - Technology
 - Operations
 - Data use and needs
 - Security
 - Authority
 - Accountability
 - Privacy



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Resolution of Competing Interests

Who Decides?

- Business
- IT
- CISO
- CEO

How is the risk captured?

- Reserve
- Cyber Insurance



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Reconsider Skills and Role of CISO



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Compliance:

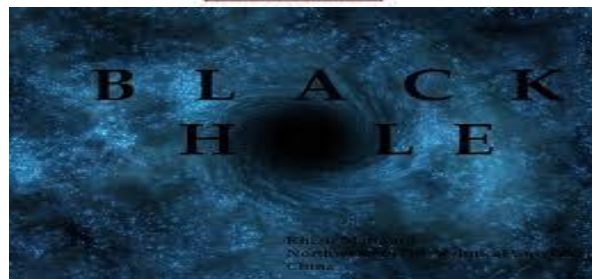
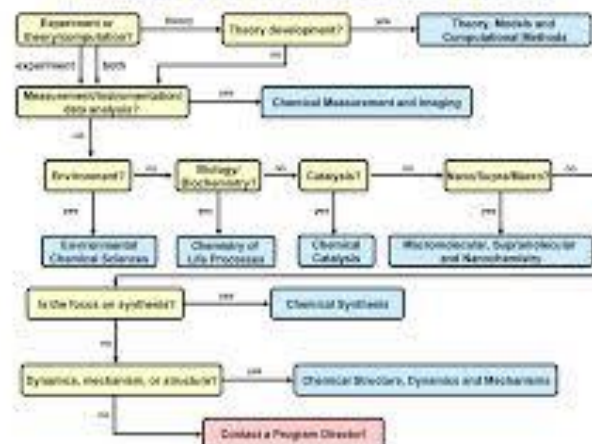
Documentation of the CISO Process



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- Project Management
 - Initial Risk Assessment
 - Identification of NPI/PII/PHI
 - Identify external access to data onsite
 - Identify encryption utilized
 - Identify remote access requirements
 - CyberSecurity Insurance Assessment
 - Third party contracts
 - Incident Response Plan execution
- Process
 - Timing of decisions
 - Threat timeline
 - Results
- Documentation

Finding a Home for an Unsolicited Proposal



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Food For Thought....

Factors that impact the per capita cost of data breach

Factors	Percentage of companies
Employee training	51%
BCM involvement (Business Continuity Mgmt.)	50%
Incident response team	48%
CISO appointed	45%
Extensive use of encryption	44%
Third party involvement	36%
Consultants engaged	35%
Lost or stolen devices	33%
Insurance protection	32%
Board-level involvement	31%
Rush to notify	29%

Many of the factors we suggest based on practice, are supported by statistics, for decreasing the data breach financial impact. **RSA**Conference2016

Source: 2015 Ponemon Data Breach Research



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So To Be Better Prepared for Data Breach Litigation.... Top 10 Steps



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1. Educate your users on Security and Privacy Responsibilities
 - Signed User Agreements
 - Signed Contractor 3rd Party User Agreements
2. Involve your Business Continuity team
3. Identify and have an exercised Incident Response Team
4. Appoint / Hire a CISO who has responsibilities
5. Exercise consistent Data Classification and then Encrypt Sensitive information
 - Don't forget Laptops, Tablets, and Mobile Device Encryption
6. Execute signed 3rd Party Agreement Services in advance
 - a. IR team
 - b. Data Breach Coach
 - c. Crisis Mgmt PR team
7. Reporting and Handling of Lost or Stolen Devices
8. Invest in a CyberSecurity Policy..or two
9. Educate the Board prior to the Event and Involve them after
10. Remember tips on Notification

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Questions on Data Breach Litigation and Being Prepared?



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Ronald I. Raether, Jr.

Partner



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Ron Raether is a partner in the Cybersecurity, Information Governance and Privacy, and Financial Services Litigation practices at Troutman Sanders. Ron is known as the interpreter between the business and information technology, guiding both parties to the best result. In this role, Ron has assisted companies in navigating federal and state privacy laws for almost twenty years. Ron's experience with technology-related issues, including data security, patent, antitrust, and licensing and contracts, helps bring a fresh and creative perspective to novel data compliance issues. Ron has been involved in seminal data compliance cases, assisting one of the first companies required to provide notice of a data breach and successfully defending companies in over 50 class actions. Ron also has represented companies in over 200 individual FCRA cases involving CRAs, resellers, furnishers, users, and public record vendors. Ron has developed a reputation for assisting companies not traditionally viewed as subject to the FCRA or with FCRA compliance questions where the law remains uncertain or unresolved.

Ron not only works with companies which have experienced unauthorized access to consumer data or have been named defendants in class actions and before regulators, but also has advised companies in developing compliance programs to proactively address these issues. As a thought leader, Ron speaks nationally and publishes frequently on cutting-edge compliance issues. Ron is also a Certified Information Privacy Professional.

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Firm Highlights

- “And in the most dramatic shift, Troutman Sanders, which ranked No. 53 in last year's survey, jumped to the No. 3 spot, having handled 87 district court cases in 2014, according to the survey....” – [Corporate Counsel's 2015 Patent Litigation Survey](#).
- Troutman Sanders ranked nationally in 39 practice areas in the 2016 edition of *U.S. News – Best Lawyers* “Best Law Firms.”
- 40 Troutman Sanders litigators have been highlighted in the most recent issues of *Chambers USA* or *Chambers Global*.
- Clients rank Troutman Sanders in the top 5% of firms for class actions, according to BTI Litigation Outlook 2016, and the 2015 *U.S. News – Best Law Firms* rates the firm as Tier 1 in the nation for Class Action Defense.
- Troutman Sanders was mentioned in a June 24 *Law360* [article](#) about 25 law firms that general counsels recommend to their friends as reported in The BTI Consulting Group's 2015 [Most Recommended Law Firms](#) report.

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Andrea C. Hoy, CISSP, CISM, MBA



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Andrea Hoy, received her initiation into the infosec community when her hard work and dedication for a safe international event earned her the role as an Asst. Venue Manager for the highly successful LA Summer Olympic Games. Andrea's leadership positions include McDonnell Douglas, Rockwell, Boeing NA and Fluor. Her clients are from a diverse mix of industries that include Litton, Pacific Life, Genentech, Molina Healthcare, Activision, WAMU (now Chase), Hamni, and East West Banks. She's served and been recognized as an advisor to the Pentagon and as ISO for the 5th largest credit union as it went through its most major technology and growth past \$10 billion in assets and 600,000 in membership.



Ms. Hoy is the founder of A.Hoy & Associates, a "virtual CISO" provider as well as infosecurity consulting, GRC, incident response, CISO Bootcamp training firm, assisting companies to establish policies and procedures to comply with NIST CyberSecurity Framework, top 20 Critical Controls, EUPD and privacy laws here and abroad to name a few. She represented the US as diplomat to China on eDiscovery and forensics.

Andrea is actively involved in the community serving as the International President of the Information Systems Security Association (ISSA) the community of choice for international cybersecurity professionals dedicated to advancing individual growth, managing technology risk and protecting critical information, after elected Vice President. ISSA members represent >10,000 security professionals worldwide with 137 chapters in 71 countries. Ms. Hoy cofounded the CISO Executive Forum and recently chartered the Financial SIG.

She previously served on the Technical Advisory Board for RSA for 4 years, advised the International Board of Directors for PointSec/ProtectData of Sweden, as well as Board of Advisors for Encentuate, a global identity management and provisioning company, leading to its acquisition by IBM, and DigitalSafe in Switzerland. She has previously been in the LA Times, Orange County Register: People in Technology to Watch", MiCTa Radio, TechTarget and KNX News Radio. Andrea received her MBA from Pepperdine University in Malibu, and prior to that graduated Magna Cum Laude and was entered into the honor society of Beta Gamma Sigma, the Phi Beta Kappa of the School of Business.

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