



# We've had a Cyber Incident! Now What?

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## Identify the Exposure

- External Threats
  - Hackers
  - Viruses
  - Social Media
  - Third Party Vendors (VERY COMMON)
    - According to many state laws the liability for the exposure of protected data resulting from the breach of a 3<sup>rd</sup> party, such as cloud or payroll providers, still falls to the organization that gave the information to the vendor.
  - A Changing Regulatory Environment
    - States are constantly amending laws
    - Federal agencies are bringing action against affected organizations
    - International laws are being implemented causing additional regulatory exposure
- Internal Threats
  - Rogue Employees
  - Human Error
  - Mobile Devices



## State Regulatory Environment

48 out of 50 States

- A vast majority of US states have consumer protection statutes that address the safeguarding on consumer data

Personally Identifiable Information (PII)

- Protected / "Sensitive" information is defined differently in each state but there are common characteristics.

Data Owner vs. Data Aggregator

- Transfer of data to a third party does not constitute a shift in responsibility

Data Breach Victim's Residency Governs

Regulatory Testing Grounds

- California, Illinois, Massachusetts, New York



# Claim Trends

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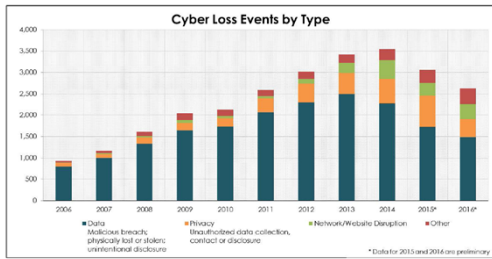
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## Cyber Threat Trends



Advisen

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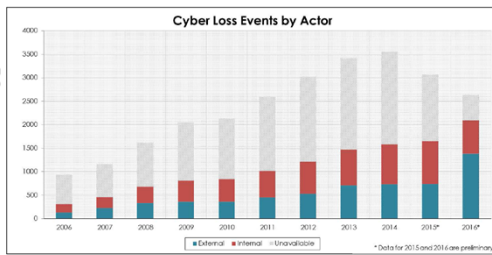
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## Cyber Threat Trends



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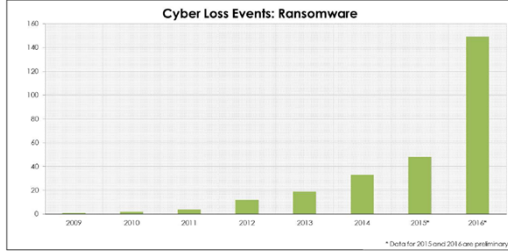
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## Cyber Threat Trends



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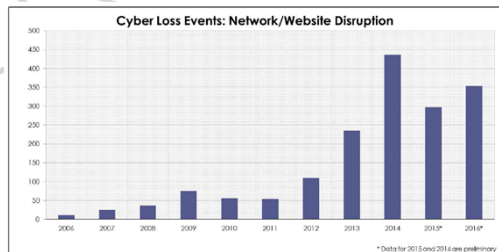
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## Cyber Threat Trends



Advisen

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## Cyber Threat Trends

- Consistent Increase in Cyber Claim Frequency**
  - SMEs
  - All Industries
  - Not just data breaches
- Internal & External Threats**
  - 50% incidents involve internal actors
  - Third Party Vendors
- Ransomware**
  - 400% increase
  - Industry agnostic
  - Hollywood Presbyterian
- Operational Risks**
  - Reliance on digital tools
  - DDoS / IoT

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## Vendor Management

UNDERSTANDING YOUR VENDOR RELATIONSHIPS

### Contract Review & Professional E&O / Cyber Insurance Requirements

- ✓ Proper indemnification from your vendors will help to mitigate your vicarious liability should your chosen partner make an error that is out of your control
- ✓ Vendor Acceptance Process is vital
  - Develop Errors & Omissions, Cyber, and Crime Insurance Contract Language designed to be made part of your existing insurance contract requirements
  - Develop reasonable requirements that are relevant to the current cyber risk environment
  - Prepare a vendor evaluation worksheet!!!

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## Vendor Management

SAMPLE CONTRACT WORDING – CYBER, E&O AND CRIME

Vendor shall obtain at its own expense and evidence via Certificate(s) of Insurance the following insurance requirements before commencement of any awarded work and throughout the duration of the Agreement:

- A) Errors and Omissions (E&O), Technology E&O / Technology Products E&O: minimum of \$5 million limit and in the annual aggregate, inclusive of defense costs
- B) Network Security / Privacy Liability, including
  - (1) computer or network systems attacks
  - (2) denial or loss of service
  - (3) introduction, implantation, or spread of malicious software code
  - (4) unauthorized Access and Use of computer systems
  - (5) privacy liability
  - (6) breach response coverage
- Liability coverages should have a minimum of \$5 million limit and in the annual aggregate
- Breach response sublimits of at least 50% of the liability limit
- C) Crime Insurance: Vendor, at its sole cost and expense, shall obtain and maintain in full force and effect, Third Party Crime/Employee Dishonesty Insurance in an amount not less than \$1,000,000. The insurance shall name \_\_\_\_\_ as a loss payee.

If policy or policies are written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Agreement. "INSURED" and subsidiaries must be named as an additional insured under E&O, Technology E&O / Technology Products E&O and Network Security / Privacy Liability coverage sections. Further, an appropriate endorsement deleting the Insured vs. Insured exclusion must be evidenced, so as not to impede a claim by "INSURED" and subsidiaries for a wrongful act of (Vendor). All insurance carrier(s) must carry an A.M. Best rating of at least A-, Class VIII.

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## 3rd Party Liability Coverages

### Network Security

- Failures in computer security
- Transmission of malicious software / viruses
- DDoS Attacks

### Privacy Liability

- Unauthorized Access or Use
- Failure to protect sensitive information

### Media Liability

- Online Content / Multimedia
- Libel / Slander / Defamation
- Copyright infringement

### Regulatory Defense, Fines & Penalties

- Regulatory Proceedings & Investigations
- Fines and Penalties where insurable by law

### PCI Defense, Fines & Penalties

- Defense Costs
- Fraud Assessments

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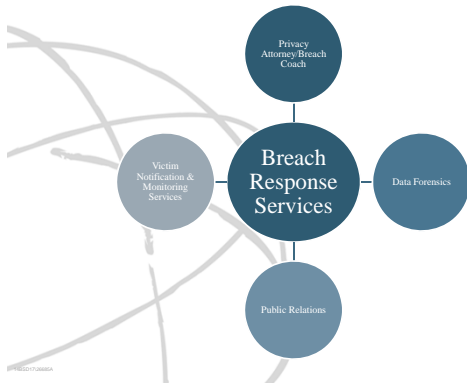
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## Breach Response Services



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## First Party Coverage



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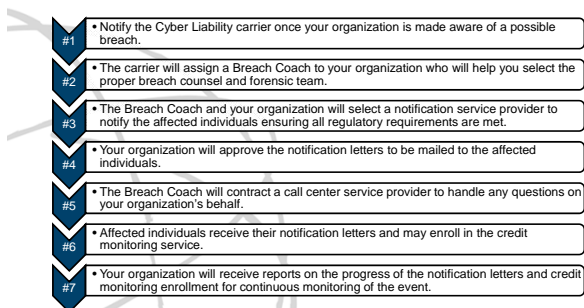
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## Breach Response Process



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## Data Breach Example

PHOTO: JAMBA

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## Incident Discovered

- Accounting discovered alterations to payroll file on Friday, 6/26
- Concerns about possible hacker making changes and re-routing funds
- Steps taken to stop transfers and resend correct payroll file
- Two communications sent to School employees same day
- Contact made with Insurance Broker team
  - Cyber Team
  - Crime Team
- Due to the potential loss of funds, claims also reported to the Crime insurance carrier
- Incident noticed to Cyber Insurance Carrier by e-mail on 6/26 and conference call placed to Insurance Carrier Breach Response team for guidance that afternoon:
  - Key members of IT staff out of town - conference call scheduled Monday morning, 6/29, to coordinate incident response efforts
  - Insurance Carrier recommended privacy attorney and computer forensic firm

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## Response Begins

- Conference call held 6/29 with School, Cyber Insurance Carrier, Privacy Attorney, Computer Forensic Firm and AJG to determine next steps
- Provider service contracts sent – Cyber Insurance Carrier negotiated rates used
- Local media made of aware of incident 6/29 – Privacy Attorney advised on how to respond
- Communications to affected employees continued by e-mail on a weekly basis - Privacy Attorney advised of appropriate messaging
- Computer Forensic Firm began investigation week of 6/29 after on-site visit
- Crime Insurance Carrier acknowledged receipt of crime loss report

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## Response Continues

- Fraudulently altered payroll file resulted in the following:
  - Total Amount Diverted: \$243,496.46 (148 transactions out of 391 potential transactions)
  - Total Amount Recovered: \$126,053
  - Total Crime amount recovered: \$117,443
- Computer Forensics results not immediately conclusive – several weeks to finalize
- Board meeting on 7/13 required an incident update mid-investigation – talking points / guidance provided by Privacy Attorney
- Privacy Attorney advised on steps to formally notify all affected individuals

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## Data Breach Mitigation

### Steps taken from July – Present:

- Final letter to Affected Employees – 9/4
- Mail Distribution
- Offer credit monitoring and other services
- Call Center coordinated including FAQ's prepared by Privacy Attorney
- Daily Call Center reports
- Call Escalation & Log (11 out of 4400 letters)

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## Insurance Coverage

### Insurance Carrier insured the following expenses:

- Notification expenses
- Credit monitoring and other services
- Call center services
- Computer Forensic investigation expenses – after retention / deductible
- Privacy attorney fees – after retention / deductible

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## BBR Services Team

### Critical Assistance Provided:

- Screened employee notices; Board update; response to media and concerned employees; and School's response to past and current employees' notification
- Coordinated computer forensic investigation
- Established attorney-client privilege applicable to all breach response providers
- Responded to inquiries and data requests from local and federal law enforcement
- Determined extent of legal notification required; drafted letter for mailing; established Q & As for call center; and established an escalation plan (included monitoring)

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## Key Take-Aways - Privacy Response

- Dual-edged sword of communication:
  - Due to delay and payroll issues, School took on enormous burden of notifying employees over the weekend
  - **Caution** - Early communication risks breach of client-attorney privilege and possible incorrect info, unnecessary scrutiny / publicity
- Fine-tune and test incident response plan
  - Phone Tree - Be prepared, able to reach IT/Network staff, Legal, Senior Leadership and other key personnel - know who to call first, second, third.....
  - Prepare a formal incident response plan and review it regularly
- Computer forensic investigation can be slow / frustrating – trust privacy counsel advice
- Notifying Insurance Carrier / breach response experts immediately and allowing them to spring into action would have avoided the burden placed on various administrative staff
- Minimize PII exposure by purging information for past employees - bank account and driver's license at a minimum – Store the least amount of information for the least amount of time required.

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## Key Take-Aways – Computer Forensics

### Recommended Best Practices:

- Separate login accounts for ERP and network access
- Two factor authentication
- Increase depth, breadth, and backups of audit logs
- Preserve image of infected devices
- Enforce password best practices: complexity, minimum length, shorter expiration
- Provide Information Security Awareness training
- Conduct regular security scans and risk assessments
- Implement malware solution, retain malware logs
- Restrict remote access to sensitive data via allowed IP addresses
- Implement single purpose computers

### Most Important Forensic Information Provided to School:

- Log-in credentials of School PeopleSoft application administrator had been compromised
- Unclear how the log-in credentials were obtained, but the PeopleSoft application administrator's computer did have malware present on it
- Log-in was used to modify certain School employees' direct deposit account and routing numbers
- The unauthorized party was only in the PeopleSoft application for a limited period of time
- There was no forensic evidence of any personal information being exported

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Thank You

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