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# Cyber Liability Overview of Risks Facing Public Sector Entities

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# Today's Presenters



## John G. Chino, ARM-PE, CSRM

### ARTHUR J. GALLAGHER & CO. LEADERSHIP TEAM, PUBLIC SECTOR DIVISION

- Responsible for the development of Public Agency Risk Management Programs
- Completed two-year internship at AJG-UK office, first American to pass Lloyd's Introductory Exam
- Instructor for The Institutes and faculty member of the National Alliance of Insurance Education and Research
- Board member of Community Matters 501(c)3



## Steven R. Robinson

### AREA PRESIDENT, RISK PLACEMENT SERVICES, INC.

- Leads national Technology & Cyber practice of RPS, a division of Arthur J. Gallagher & Co.
- Leads team of insurance professionals, developing cyber risk insurance programs in the following sectors: public entity, edu, finance, hospitality, technology, retail and others
- National speaker, educator and author in matters of cyber risk insurance
- B.A., University of South Carolina



## Elissa Doroff

### VICE PRESIDENT & PRODUCT MANAGER, CYBER & TECHNOLOGY, XL CATLIN

- Directs and manages XL Catlin's risk management services designed to minimize the frequency and severity of data breaches.
- Nearly a decade of cyber and technology insurance expertise as a claims counsel and broker
- National presenter on panels and seminars for clients and industry associations
- B.A., State University of New York at Albany
- Juris Doctor, Suffolk University Law School
- Admitted to practice law in Massachusetts and Connecticut

# Today's Topics

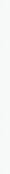
## Overview of Risks Facing Public Entities

- Cyber Risk for Public Entities: COMMON PATTERNS, UNIQUE EXPOSURES
- What is Cyber Liability: HIGH-LEVEL OVERVIEW
- Fact Patterns of a Data Breach: 10 COMMON THREATS
- Active Cyber Claims We are Seeing: COVERAGE, PAYOUTS, ETC.
- Data Breach Prevention Overview: SIMPLE STEPS TO SHARE WITH ALL STAKEHOLDERS
- Breach Response & Incident Reporting: PROCESS, DO'S AND DON'TS
- Questions / Discussion



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# Cyber Risk for Public Entities



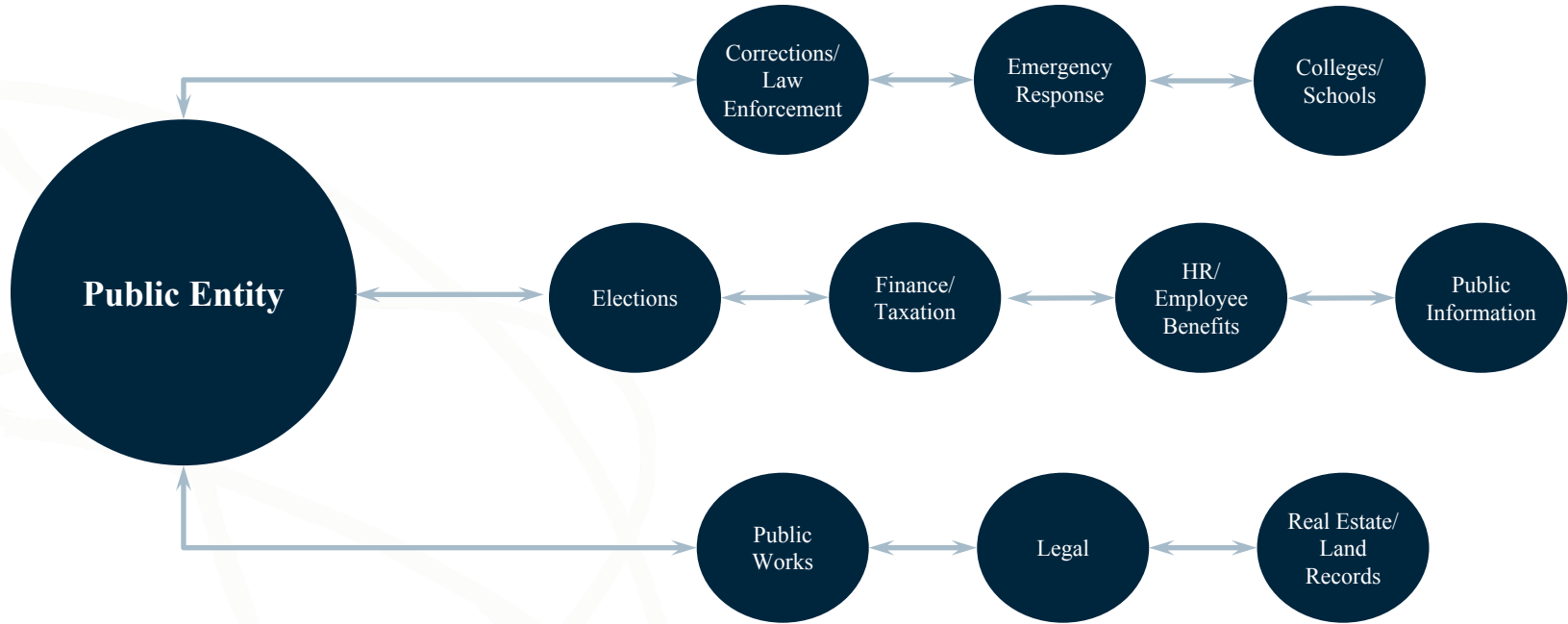
# 10 Fact Patterns of Data Breaches

- Missing or stolen laptop or storage device
- Mis-mailing
- Erroneous Data Posting
- Willful release based on fraudulent instruction (social engineering)
- Compromised System (Hacking)
- Loss or Theft of Physical Documents
- Lost Back-up Data or Tape
- Breach Caused by a Third-Party Vendor
- Improper Document/Equipment Disposal
- Insider

*Source: IDT911*

# Public Entity Exposures

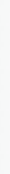
The Vast Array of Services Provided By Public Entities = Information Risk



Endless networks – some connected, some not – all containing valuable information that thieves want to exploit








# What is Cyber Liability



# What is Cyber Risk Insurance?

Insurance coverage designed to protect a business or public entity from:

– Liability associated with:

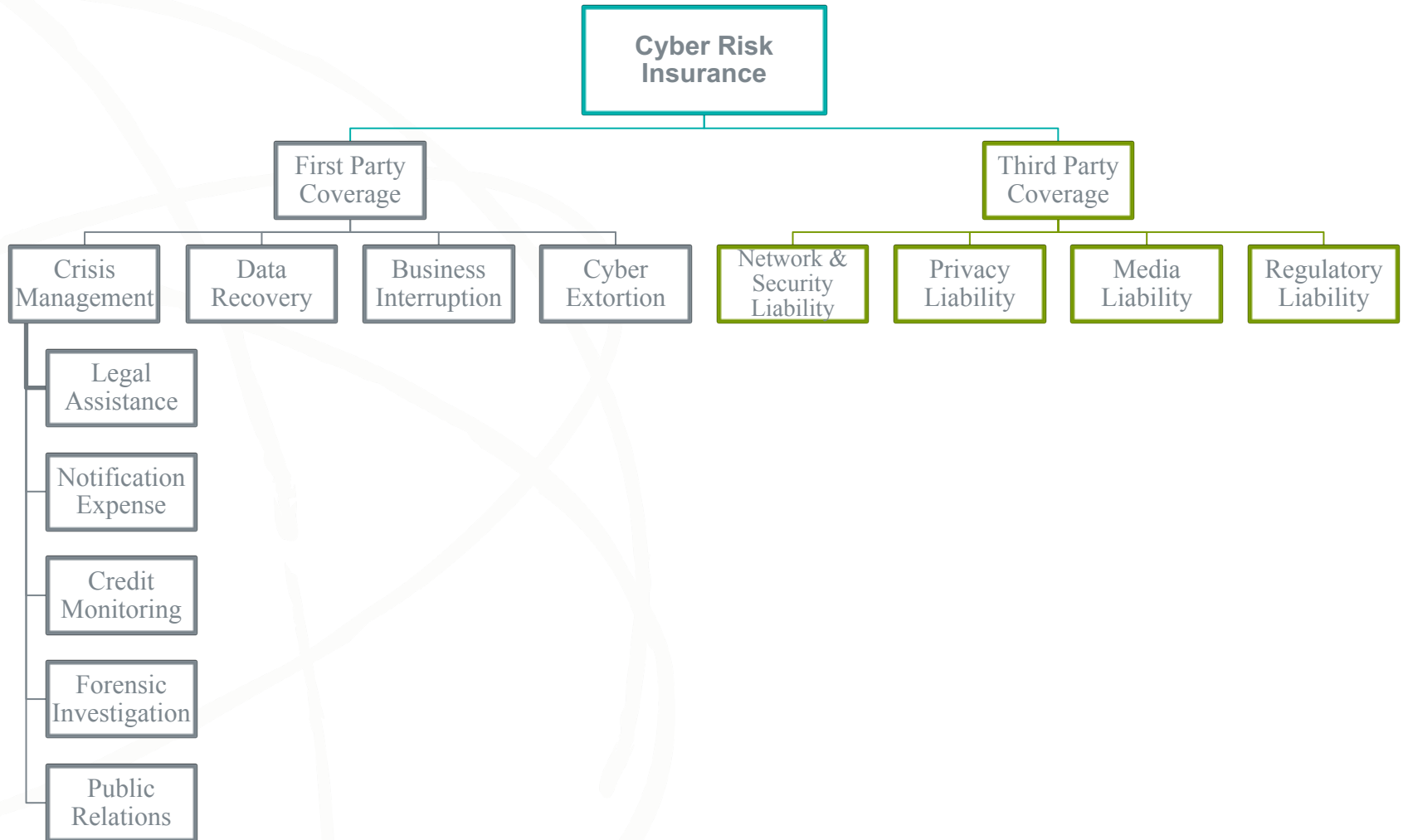
-  • Unauthorized release of confidential information
-  • Violation of a person's rights to privacy
-  • Personal injury in an electronic/social media environment
-  • Intellectual property infringement
-  • Violations of state or federal privacy laws

– Self-incurred expenses incurred to make the above problems go away



# Cyber Coverage Explained

## First & Third Party



# Current Claims in the Public Entity Sector

- Real Events
- Recent Events
- Lessons Learned

# Claim # 1

- Type of Entity: State Housing Authority
- Type of Event: Ransomware
- Coverage Triggered: Privacy & Security /  
Data Breach & Crisis Mgmt
- Payout: \$250,000
- Overview
  - Contacted outsourced IT provider
  - Wiped critical data/evidence, hindering response
  - Forensics engaged
  - Notification of 6,893 individuals, credit monitoring, public relations.

# Claim # 2

- Type of Entity: Board of Education
- Type of Event: Ransomware
- Coverage Triggered: Cyber Extortion
- Anticipated Payout: > \$25,000
  
- Overview
  - Employee opened email containing malware
  - Multiple computers and network drive affected
  - Legal counsel engaged
  - IT forensics
  - No data exfiltration

# Ransomware

Hello.

Your some files were encrypted with the strongest cipher RSA 1024 and AES.  
No one will help you to restore files without our decoder. Any programs for  
recovering files or disk repair are useless and can destroy your files  
irreversibly. Irreversibly. So don't try to decrypt it yourself. We warned you.

There is only one way to restore your files - send e-mail to [ransomware@protonmail.com](mailto:ransomware@protonmail.com)  
with attached file "\_how to decode[WIN764-2].txt" (you read this file right now).  
To test our honesty you can send an one encrypted file less than 4 MB (not zipped)  
as \*.doc \*.xls \*.jpg \*.pdf, but not database file or backup file  
(\*.\*900 \*.001 \*.db \*.zip \*.rar \*.bkp etc).

We will decode your sample for free.

You will receive deciphered sample and our conditions how you will get the  
decoder. Follow the instructions to send the payment. Be attentive! The decoder  
for each server is paid separately.

**P.S. Remember, we are not scammers.** We don't need your files. If you want, you  
can get the password for free after 6 month wait.  
Just send a request immediately after infection and download the decoder.  
All data will be restored absolutely.

Our guarantee of honesty - your deciphered sample.

E-mail: [ransomware@protonmail.com](mailto:ransomware@protonmail.com)

E-mail: [ransomware@protonmail.com](mailto:ransomware@protonmail.com)

Bitmessage: [ransomware@protonmail.com](mailto:ransomware@protonmail.com)

# Claim # 3

- Type of Entity: County Government
- Type of Event: Virus Encryption
- Coverage Triggered: Data Breach & Crisis Mgmt
- Anticipated Payout: TBD
  
- Overview
  - County servers shut down, Thanksgiving holiday
  - 911 center included
  - 42 servers – Mamba variant – full-disk encryption
  - Working with law enforcement, IT forensics
  - Determining next steps, including data exfiltration
  - Developing

# Claim # 4

- Type of Entity: Design Svcs Company
- Type of Event: Ransomware
- Coverage Triggered: Cyber Extortion
- Anticipated Payout: \$300,000
  
- Overview
  - Ransomware attack on insured's servers and backup servers.
  - Encryption made restoration from backup impossible
  - Bitcoin ransom
  - Extensive monitoring
  - No data exfiltration
  - Legal, forensics

# Claim # 5

- Type of Entity: School District
- Type of Event: DDOS Attack
- Coverage Triggered: Privacy & Security /  
Data Breach & Crisis Mgmt
- Anticipated Payout: TBD
- Overview
  - Disruptions in internet service
  - Perpetuated by a student
  - IT forensics, legal and law enforcement engaged
  - Developing



# Claim # 6

- Type of Entity: School District
- Type of Event: Unauthorized Access
- Coverage Triggered: Privacy & Security /  
Data Breach & Crisis Mgmt
- Payout: \$80,000
- Overview
  - Student gained access to grades and other personal information on > 3,000 fellow students

# Breach Prevention

- **Preventing Data Breach Through Common Sense Application**

# Mitigating Information Risk in Your Agency

- Electronic Threats
  - Recognize the signs – computer performance
- Phishing – Beware!
  - Recognizing scams in email (source, content)
  - Examine URL's
  - Be cautious about “Friend Requests” – personal & work separate
  - Do not “reply” – create new email
  - Do not open or download attachments from unknown sources

# Mitigating Information Risk in Your Agency

- Password Guidelines
  - Strong passwords
  - Change frequently
  - Set screensavers to unlock with passwords
  - Do not share
- Electronic Safeguards
  - Security software
  - Securing your computer

# Mitigating Information Risk in Your Agency

- Electronic Communications
  - Encryption
  - Beware of hyperlinks
  - Know your sender
  - Do not click “reply”
  - Verify source before downloading content
  - Never assume info is public knowledge – do not post to social media
- Physical Security
  - Beware of wandering eyes
  - Unauthorized physical access
  - Eavesdropping – not limited to electronic info
  - Mobile devices
  - Backup data off-site – segregated from network

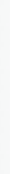
# Mitigating Information Risk in Your Agency

- Securing Office Areas & Resources
  - Desk, files, etc.
  - Retrieval of sensitive info
  - Disposal of sensitive info
- Safe Remote & Mobile Computing
  - Smart phones – turn off wireless when not in use
  - Flash drives - encrypt
- Protecting Info on Mobile Devices
  - Storing data on phones
  - Non-approved apps
  - Passwords/hints

# Mitigating Information Risk in Your Agency

- Safe Computing Away from the Office
  - Public transit
  - Home
  - Public places
  - Airports
  - Hotels
  - Do not email sensitive student info to your unsecured home email address for convenience

# Incident Reporting





# Breach Response

Expert Resources are Ready to Assist



## Goals:

- Ensure compliance
- Mitigate potential damage:
  - Financial
  - Operational
  - Reputational



# Do's & Don'ts of Incident Reporting

- **DO** report any suspected privacy/information security incidents to your IT department/manager immediately – even if you are unsure
- **DO** prepare a brief description of the incident, timeline, key personnel
- **DO** call the insurance carrier Data Breach Hotline (if you have coverage)
- **DO NOT** attempt to handle the matter yourself
- **DO NOT** do anything to jeopardize the digital footprint of the incident
- **DO NOT** engage legal or forensics experts without first calling the insurance carrier Data Breach Hotline



# Questions



**Thank You!**

