



Taking Responsibility for Managing Cyber Exposure Risks Within Cities and Other Public Entities

Municipal Technology Association of South Carolina
Spring Meeting – March 23rd, 2017




About NetDiligence®

- 15+ years supporting the cyber liability risk mitigation needs of insurers and their clients
- We conduct **QuietAudit®** cyber risk assessments for organizations – and their vendors – of all sizes & sectors.
- We provide access to our **eRiskHub®** cyber risk management portal for 80+ carriers, brokers, and risk pool organizations – and tens of thousands of their clients (including the National League of Cities & MASCC).
- We build/host **Breach Plan Connect®** to help clients better organize and access key elements of their incident response plan capabilities.
- We sponsor cyber risk **Conferences** each year in Philadelphia, Santa Monica, Toronto, and London

Sampling of insurers that we support:

- Aegis
- Alliant
- Allianz
- Arch
- Argo
- Aspen
- Axis
- Barmenia
- Beazley
- Berkshire
- Berkshire Hathaway
- Biri
- CNA
- CNA Mutual
- Dill
- Endurance
- Hiscox
- HSB
- Inshore
- K&N
- Liberty
- Miret
- National League of Cities
- One Beacon
- Philadelphia
- Principia
- QBE
- RJ
- Starr
- Swiss RE
- Travelers
- Transia
- USU
- Vesta
- XL
- Zurich



Why Are We Here?

BUSINESS INSURANCE



Risk Mgr Top 5 Concerns	
Cyber security, cyber risk	56%
Changing legislation	53%
Corporate liability	37%
Natural disasters	36%
Talent and skills shortage	33%

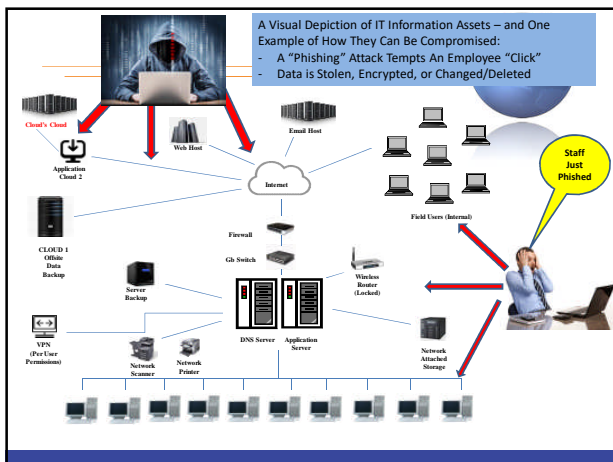



Cyber Threats Facing Cities (Routine)



Employee/Entity Errors, Negligence, Policy Violations, IT Failures

- Incorrect data entry which prejudices Constituents or others
- Lost/stolen laptops, smartphones, tablets, servers, and workstations with data
- Unapproved sharing of data with unauthorized third parties (or other types of employee information security policy violations)
- Improper transmission of sensitive data to authorized parties without encryption or other physical protections
- Failure to adhere to federal, state, or other regulatory mandates regarding privacy data protection (e.g., for Personally Identifiable Information (PII), Protected Health Information (PHI), Payment Cardholder Industry (PCI), or other types of sensitive financial/account information).
- Failure of individual mission-critical systems or applications without adequate fail-over or disaster recovery procedures
- Physical datacenter disasters associated with weather, earthquakes, utility grid failures, or adverse human activities (political, crime, war, disease)



City-Level Experience With Cyber Events



City/Entity	Year	Category	Impact	Severity	Resolution	Take Care	Impact	Resolution
City of Springfield (IL)	2010	Public Data	Medium	Low	Unknown	Unknown	Unknown	Springfield website was the original repository of a data breach.
City of Cambridge (MA)	2010	Public Data	Other	Low	Unknown	Unknown	Unknown	Confidentiality breach involving the release of records (CO, names and email).
San Diego Department of Public Services (Department of Public Services)	2010	Public Data	Staff records	Medium	Unknown	Unknown	Unknown	San Diego Department of Public Services.
City of Denver	2010	Public Data	Reg. in progress	Low	Unknown	Unknown	Unknown	San Diego website was not yet an eRiskHub member.
City of Washington	2010	Public Data	Medium	Low	Unknown	Unknown	Unknown	San Diego website was not yet an eRiskHub member.
City of Indianapolis	2010	Public Data	Staff records	Low	Unknown	Unknown	Unknown	San Diego website was not yet an eRiskHub member.
City of Phoenix	2010	Public Data	Staff records	Low	Unknown	Unknown	Unknown	San Diego website was not yet an eRiskHub member.
City of Albany (NY) Records Department (Records Department)	2010	Public Data	Reg. in progress	Unknown	Unknown	Unknown	Unknown	San Diego website was not yet an eRiskHub member.
City of Council Bluffs	2010	Public Data	Reg. in progress	Unknown	Unknown	Unknown	Unknown	San Diego website was not yet an eRiskHub member.

What Can You Do? Pursue Assessments



Purpose: Identify Strengths & Weaknesses

- Identify existing practices (or lack thereof) within specific topic areas, including:
 - Information Security Organization
 - Vendor Security Management
 - PCI (credit/debit card transactions)
 - Encryption (in-transit and at-rest)
 - Technical/Compensating Controls
 - Application Security
 - System/Network Operations
 - Business Continuity / Disaster Recovery
 - Incident Response
 - Privacy



What Can You Do? Pursue Improvements



Frequent Recommendation Examples:

- Identify a named Information Security Officer, and vest accountability in that person for the effective implementation and enforcement of security-centric policies and practices
- Understand, at a detailed level, where sensitive data exists (and goes) within the course of everyday activity within your city government – and determine how it can best be protected from accidental/malicious disclosure, including via encryption and strong access controls
- If you take credit cards for payment of fees, fines, licenses, records, or taxes, make certain that you and your payment processor are PCI DSS compliant
- Make a greater effort to understand what types of data and functions you entrust to your third-party hosting/cloud providers – and hold them accountable (as much as possible, given market conditions) for effective data protection commitments
- Conduct periodic vulnerability scanning and/or penetration testing of your public-facing environment
- Outsource application development to security-trained vendors

What Can You Do? Pursue Improvements



Frequent Recommendation Examples:

- Invest ongoing financial resources in generational upgrades for key security technology solutions – including firewalls, intrusion detection/prevention, anti-virus, etc.
- If your city makes use of smartphones/tablets for remote access by your employees, ensure that you have deployed a contemporary mobile device management (MDM) solution to prevent unauthorized data disclosure via theft/loss of such devices
- Ensure that your disaster recovery plan capabilities and goals match the existing service delivery requirements of your departments and constituents – and that periodic plan testing takes place to ensure those goals can be met
- Implement a documented (and 24x7 accessible) incident response plan program that fosters timely response and remediation efforts
- Train employees on all key elements of security and privacy policy requirements and their adherence to them
- Ensure that your City's Law Director is fully up-to-speed on data privacy laws and your City's obligations in the event of a data breach event.

What Can You Do? Pursue Cyber Insurance



Make Sure Your City Carries Cyber Risk Insurance:

- Check with your Risk Manager to ensure that your City has purchased cyber insurance coverage – which exists separate and apart from traditional E&O policy coverage. [Your NLC Risk Pool can play a role here](#)

Make Use of Additional Loss Mitigation Resources/Services:

- As a member of MASC, you are already eligible for [free registration](#) for up to three members of your City administration to the NLC-RISC eRiskHub. To register for your account, please follow these instructions:
 - Access <https://www.eriskhub.com/NLC>
 - When prompted for your custom Access Code, please use: **13522**



NetDiligence®

eRiskHub® BreachCoach®

BreachPlan Connect® QuietAudit®

Thank you!

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