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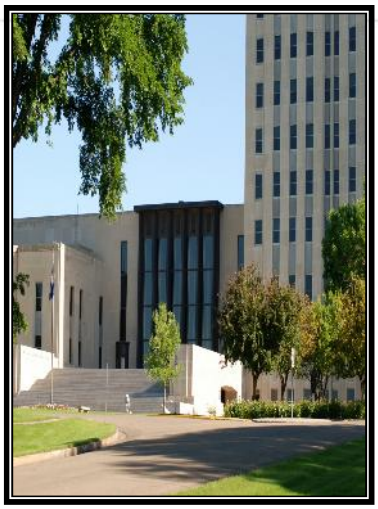

Governor's Cybersecurity Task Force

Monday, October 19,2015
Roughrider Room
State Capitol Building

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Agenda

- Welcome / Opening Comments
- Introduction of Task Force Members
- Cybersecurity Current State
- Open Discussion:
  Task Force Cybersecurity Perspectives
- Closing Comments

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Welcome & Opening Comments

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Current Security Landscape

2015 Reported Breaches
by the
Identity Theft Resource Center

As of October 13, 2015

# of Breaches = 606
# of Records = 175,492,082
(Majority of organizations report "Unknown")

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Cybersecurity Current State

Banking/Credit/Financial	# of Breaches: 58	# of Records:	5,056,281
	% of Breaches: 9.6%	%of Records:	2.9%
Business	# of Breaches: 237	# of Records:	15,998,421
	% of Breaches: 39.1	%of Records:	9.1%
Educational	# of Breaches: 49	# of Records:	754,100
	% of Breaches: 8.1%	%of Records:	0.4%
Government/Military	# of Breaches: 46	# of Records:	33,802,728
	% of Breaches: 7.6%	%of Records:	19.3%
Medical/Healthcare	# of Breaches: 216	# of Records:	119,880,552
	% of Breaches: 35.6	%of Records:	68.3%
Totals for All Categories:	# of Breaches: 606	# of Records:	175,492,082
	% of Breaches: 100.0	%of Records:	100.0%

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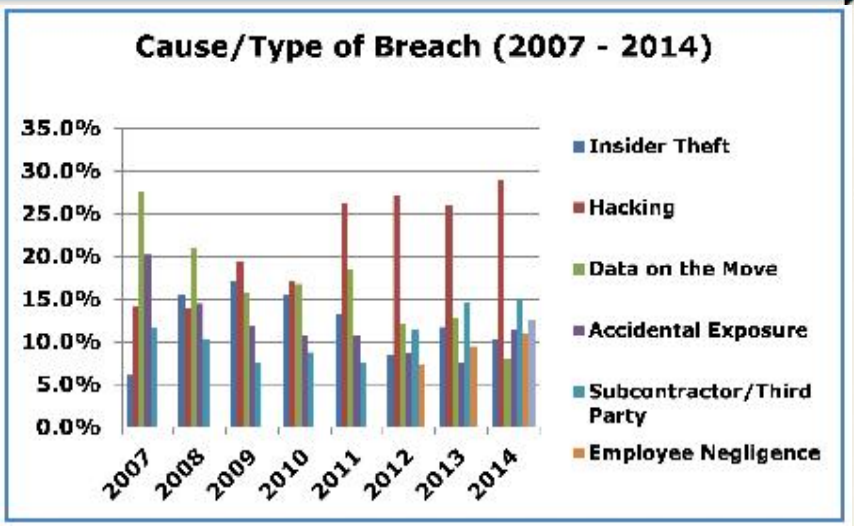
Cybersecurity Current State



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Cybersecurity Current State

"Cyber threats to U.S. national and economic security are increasing in frequency, scale, sophistication and severity of impact.

Despite ever-improving network defenses, the diverse possibilities available through remote hacking intrusion to insert compromised hardware or software, actions by malicious insiders, and mistakes by systems users will hold nearly all information and communication technology networks and systems at risk for years to come. In short, the cyber threat cannot be eliminated; rather cyber risk must be managed."

James Clapper – Director of National Intelligence
9/10/2015 Report to U.S. House Committee on Intelligence

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Recent National Cybersecurity Events

- US Department of Energy – September 2015
  Cyber attackers successfully compromised the security of U.S. Department of Energy computer systems more than 150 times between 2010 and 2014, according to a review of federal records.
- Excellus NY Blue Cross Blue Shield - September 2015
  Cyber attackers may have gained access to over 10 million personal records.
- Ashley Madison – August 2015
  Hackers disclose e-mail addresses of people who visited the site. 33 million names and e-mail addresses at risk.
- US Office of Personnel Management – July 2015
  Cyber attackers may have gained access to over 24 million personal records.

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Web Server Cyber Attack

- Lessons Learned
  - Properly securing and patching third party applications
    - ITD plans to implement more restrictions on the tools agencies and their vendors use to administer web sites.
  - Application Inventory and Categorization
    - ITD will be reaching out to agencies to complete an initial application inventory and categorization exercise.
    - Integrates with the Application Portfolio Management role that is part of ITD's Cloud Broker role.
  - Scanning critical applications for vulnerabilities
    - Agencies need to budget for this security analysis.

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It is clear that cybersecurity threats are evolving and increasing – in sophistication, intensity, diversity and volume– and that they are not going away anytime soon.

While we continue to make incremental improvements, there is still more to do to mitigate the mounting threats and disruption to state agencies when attacks succeed.

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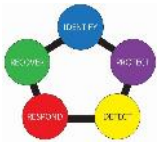
Current North Dakota Cybersecurity Initiatives

- State Cyber Disruption Strategy
  Focuses on critical infrastructure and key resources. (ITD/DES)
- Governor's Cybersecurity Task Force
- Cybersecurity Awareness Month – October
- ITD Cybersecurity Framework
  - Identify
  - Protect Detect
  - Respond Recover



- Enterprise Architecture Security Policy and Standards

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Current North Dakota Cybersecurity Initiatives

- Application Inventory and Risk Categorization
- Audits and Risk Assessments
- Application Vulnerability Scans and Ethical Hacking
- Increased Collaboration with Key Partners
  - MS-ISAC (Multi-State Information Sharing and Analysis Center)
  - FBI - InfraGard
  - NASCIO (National Association of State CIO's)
  - NASTD (National Association of State Telecommunication Directors)
  - Vendors

Task Force Discussion