The Conference Board of Canada | Le Conference Board du Canada

COUNCIL OF CHIEF INFORMATION OFFICERS AND THE CYBER SECURITY CENTRE

Agenda

Theme: Resiliency in the Face of Cyber Security

OCTOBER 2ND - 3RD, 2018 in OTTAWA, ON

Meeting Location:
Gowling WLG
Suite 2600, 160 Elgin St.
Ottawa, ON K1P 1C3

Accommodations:
ARC The Hotel
140 Slater St., Ottawa, ON K1P 5H6

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Meeting Objectives:

- Explore the challenges and best practices on how organizations are leveraging IT strategies to ensure cyber agility and keep up with the pace of change,
- Gain a better understanding of how peers are managing cyber security and how GDPR could impact your organizations,
- Examine viable strategies for dealing with Zero-day vulnerabilities and what you can do differently, and
- Network and engage in open and frank discussions with fellow peers in a trusted environment.

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Monday, October 1st, 2018

6:00 p.m. **Informal Networking Dinner (Non-Sponsored)**

Tosca Ristorante (3-minute walk from the ARC Hotel)
144 O'Connor Street, Ottawa, ON, K2P 2G7

The reservation will be under the name *The Conference Board of Canada*.

Tuesday, October 2nd, 2018

JOINT EVENT: CIO Council and the Cyber Security Centre

8:00 a.m. **Networking Continental Breakfast**

8:30 a.m. **Welcome and Opening Remarks**

Sarah Shortreed, Vice-President and Chief Information Officer, Bruce Power Inc.

Dianne Williams, Director, Industry Strategy and Public Policy, The Conference Board of Canada

9:00 a.m. **Showcase: The Conference Board of Canada Research**

Rachael Bryson, Senior Research Associate, National Security and Public Safety, The Conference Board of Canada

Zero-day vulnerabilities are, by their very definition, not something organizations can prepare for. While these vulnerabilities are inevitable, Rachel will share strategies that can be adopted to effectively deal with zero-day vulnerabilities.

10:00 a.m. **Networking/Health Break**

10:30 a.m. **Machine versus Malware: An AI Story**

Keith Rayle, Strategist, FortiGuard Labs

Malware dates to the earliest days of connected computing, but malware risk mitigation methodology has remained relatively static and ineffective. Zero-day vulnerabilities are essentially delivered using standard attack vectors and packaging, yet we focus on specific system exposures. Patching and updating after vulnerability disclosure or exploit has simply not resolved the operational risk landscape due to a variety of factors surrounding simply bad approaches. Cyber criminals are highly motivated, use business-like organization, and rely on fast communications to gain the edge in distributing malicious payloads as quickly as possible. We must adopt the same mind set and adapt the technologies to enable effective countermeasures.

Artificial intelligence has been a widely-adopted approach to solving many business and social problems using advanced data mining and massive parallel compute capabilities. During this session, a history and the inner workings of artificial intelligence will be

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explored. A specific antivirus implementation of a deep learning system will be discussed to give insight into how this type of technology can be used to quickly, accurately, and efficiently thwart cybercriminals and their reliance on malware for illicit financial gain.

11:45 a.m. **Group Networking Lunch**

12:30 p.m. **Zero-day Vulnerabilities: Best Practices**

Richard Pierson, Director General, Cyber Defence, Communications Security Establishment

A zero-day vulnerability is a vulnerability that is unknown to those who would be interested in mitigating it, including the vendor of the particular software. Until that vulnerability is mitigated, hackers can exploit it to adversely affect computer programs or networks. Monitoring for anomalous activity amongst the behaviour of servers and networks is an important step in staying protected from such attacks. Automation in triaging data ensures the infrastructure is monitored day and night. Even when no patches are available, there are still best practices you can follow – like CSE's Top 10 – that put you in the best position to defend against these types of attacks.

1:30 p.m. **Board Strategies for Dealing with Zero-day Vulnerabilities**

John Hill, Chief Information Officer, Rogers Communications Inc.

John will share best practices on the governance addressing zero-day vulnerabilities and, in particular, address what reporting is done to the Board, how to engage the Board in those discussions and how to engage executive level peers.

2:30 p.m. **Networking/Health Break**

3:00 p.m. **Fireside Chat**

Moderated by: Rachael Bryson, Senior Research Associate, National Security and Public Safety, The Conference Board of Canada

Panelists include:
Marc Duchesne, Vice-President, Corporate Security and Responsibility, Bell Canada
John Hill, Chief Information Officer, Rogers Communications Inc.
Keith Rayle, Strategist, FortiGuard Labs

In an interactive casual fireside chat format, Rachael will pose the following questions to our panelists and facilitate a group discussion:

1. Are zero-day vulnerabilities a major concern for your organization? How would they pose a risk?
2. What strategies is your organization currently using to protect yourselves from zero-day vulnerabilities? Were any other strategies or approaches considered?
3. Is your organization drawing a link between zero-day vulnerabilities and the need to build cyber resilience?

4:30 p.m. **Closing Remarks and Adjournment**

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6:00 p.m. **Networking Dinner: Beckta Restaurant at 150 Elgin St., Ottawa, ON, K2P 1L4**
"Beckta's fine dining room is located on the ground and second floors of our beautifully restored heritage landmark building. This stately home is perfectly suited to our aspirations to put fine dining on center stage in our nation's capital. Known for our exceptional hospitality, we have assembled a team of professionals to care deeply for you and your guests during your time with us." Source: www.beckta.com.

Wednesday, October 3rd, 2018

JOINT EVENT: CIO Council and the Cyber Security Centre

8:00 a.m. **Networking Continental Breakfast**

8:30 a.m. **Welcome and Opening Remarks**

Sarah Shortreed, Vice-President and Chief Information Officer, Bruce Power Inc.

Rachael Bryson, Senior Research Associate, National Security and Public Safety, The Conference Board of Canada

8:45 a.m. **Keynote Address**

Melissa Hathaway, President, Hathaway Global Strategies LLC

Melissa Hathaway is a leading expert in cyberspace policy and cybersecurity. Currently she is, among others, President of Hathaway Global Strategies LLC and also a Senior Advisor at Harvard Kennedy School's Belfer Center. She served in two U.S. presidential administrations, spearheading the Cyberspace Policy Review for President Barack Obama and leading the Comprehensive National Cybersecurity Initiative for President George W. Bush.

10:15 a.m. **Networking/Health Break**

10:35 a.m. **Privacy & Data Protection at Gowling WLG**

Wendy J. Wagner, Partner and Leader, Privacy & Data Protection Group, Gowling WLG

Danhoe Reddy-Girard, Partner, Gowling WLG, Paris Office

The European General Data Protection Regulation (GDPR) has received worldwide attention since coming into effect on May 25, 2018, and for good reason. While the legislation primarily affects the treatment of personal information of EU residents, its application extends beyond EU companies and impacts Canadian organizations that are established in the EU or conduct processing activities there, and also those organizations that offer goods and services to EU residents or contract to provide services to organizations that handle EU resident data. The requirements imposed by the law are in many ways similar to Canada's PIPEDA, however, there are also distinct data breach notification rules, restrictive obligations on processors, unique obligations regarding data transfers, and foreign concepts such as the Right To Be Forgotten. Importantly, the law contains significant sanctions for companies found to have violated

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GDPR rights and obligations. Attend this session to learn the potential impact of GDPR on your organization and steps you may need to consider to comply.

11:50 a.m. **Wrap-Up from Joint Event**

12:00 p.m. **Joint Networking Lunch**

Joint Event Ends - CIO Council on Its Own

1:00 p.m. **Governance and Major Threat Vectors at Employment and Social Development Canada (ESDC)**

Peter Littlefield, Assistant Deputy Minister and Chief Information Officer, Employment and Social Development Canada

As the provider of employment insurance benefits and other services for the country, ESDC has a large IT footprint, comprised of legacy system (including mainframe), new and emerging IT systems and capabilities, and shared service providers such as Shared Services Canada. It is a complex and dynamic organization, requiring a robust, stress tested, and holistic cyber security program. To help demonstrate, Peter will talk about recent security issues and vulnerabilities that impacted ESDC, and how he and his team managed these situations. He will explore the governance, reporting and communication protocols, and senior executive level engagement required to address the issue. He will also provide an overview of the major threat vectors facing ESDC and how they mitigate those threats, including an overview of the dashboards and reporting mechanisms they have in place to help ensure the stability and security of IT at the organization.

1:45 p.m. **Networking/Health Break**

2:00 p.m. **CIO Member Profile**

Richard E. McDonald, Chief Information Officer, Public Safety Canada

Richard will share his experience as a CIO working with the special restrictions that come with operating in a highly-classified environment and, from those experiences, make observations about new security solutions that are needed, and that will apply to all CIOs, even in more standard environments.

2:45 p.m. **Key Takeaways and Council Business**

CIO Council Chairperson: Sarah Shortreed, Vice-President and Chief Information Officer, Bruce Power Inc.

3:00 p.m. **Adjournment**

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