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Canadian SME Cybersecurity Initiatives & Programs

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CYBERSECURE CANADA

CANADIAN CENTRE^{FOR} **CYBER** SECURITY

Cybersecurity Partnerships Initiatives for Small and Medium Enterprises

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SME Recent Trends

Improving SMEs cyber security posture is crucial for Canada because:

- SMEs make up the majority of the Canadian economy
- 98% of Canadian businesses are SMEs
 - As of December 2019, there were more than 1.2 million SMEs in Canada ([Key Small Business Statistics, 2020](#))
- SMEs employ approximately half of Canadian workforce
- Cyber threat actors are increasingly targeting SMEs and are becoming more sophisticated (78% of Canadian businesses who were the victim of a cyber attack

According to Verizon's 2019 Data Breach Investigation Report, 43 percent of all data breaches target SMEs.

[3 out of 4 businesses](#) believe they don't have enough personnel to address their IT security.

[54% of SMEs](#) believe their companies are "too small" to be hacked.

Proposed Logic Model: the National Cyber Security Strategy



CRITICAL ENABLERS

Interdepartmental Steering Mechanism:

- Horizontal awareness
- Message alignment
- Engagement optimization
- Policy proposals

SME Community of Trust

- Connecting SMEs to GC services / programs
- Requirements & needs analysis
- SME consultations

INTERMEDIATE GOVERNMENT

SMEs are more aware of cybersecurity risks and solutions and are more able to put cybersecurity measures in place
(**EDUCATE**)

SMEs can implement best practices at a lower cost through available GC-created or supported tools (**EQUIP**)

SMEs benefit from a more secure ecosystem through GC-created or supported services (**SECURE**)

SMEs benefit from a more secure ecosystem through more tailored and expansive TSP services
(**INFLUENCE**)

NATIONAL OUTCOMES

Non-Federal Institutions are better secured

Cybercrime is reduced

State-sponsored activity is deterred

Leading edge consumer protection and workforce

Clear cyber focal point for GC

GOALS

Secure and Resilient Canadian Systems

Innovative and Adaptive Cyber Ecosystem

Effective Leadership, Governance, Collaboration

PURPOSE

Security and Prosperity in the Digital Age

Small & Medium Businesses: Engagement Roadmap



Main activities for 2021-22:

- Educational focus:
 - Harmonized and aligned GC messaging
 - Dedicated platform
- Securing sales and payment platforms used by small businesses



Cyber Security Certification Program

- ❖ Supports Canada's National Cyber Security Strategy
- ❖ Targets small and medium sized enterprises (SME) and similar sized organizations
- ❖ Based on **13 security control areas** developed by the Canadian Centre for Cyber Security
- ❖ **National Cyber Security Standard** for SMOs is being developed (Summer 2021)
- ❖ **Voluntary** Participation



SECURITY CONTROLS

What SMOs must do to protect themselves from cyber threats.



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Develop an
Incident
Response Plan



Securely
Configure Devices



Backup & Encrypt
Data



Enable Security
Software



Secure Cloud and
Outsourced IT
Services



Secure Portable
Media



Use Strong User
Authentication



Secure Websites



Secure Mobility



Implement Access
Control &
Authorization



Provide Employee
Awareness
Training



Establish Basic
Perimeter
Defences



Automatically
Patch Operating
Systems

ACCREDITED CERTIFICATION BODIES



❖ **CyberSecure Canada** Accredited Certification Bodies include:

- Bulletproof Solutions
- Cyber Security Canada
- WatSec
- SourcetekIT

❖ Certification cost is set by the Certification Bodies (CBs) and each have different business models that impact their respective price point

❖ Cost also varies depending on the *complexity* of the SMO and the auditing required



Program Status (Jan 2021)

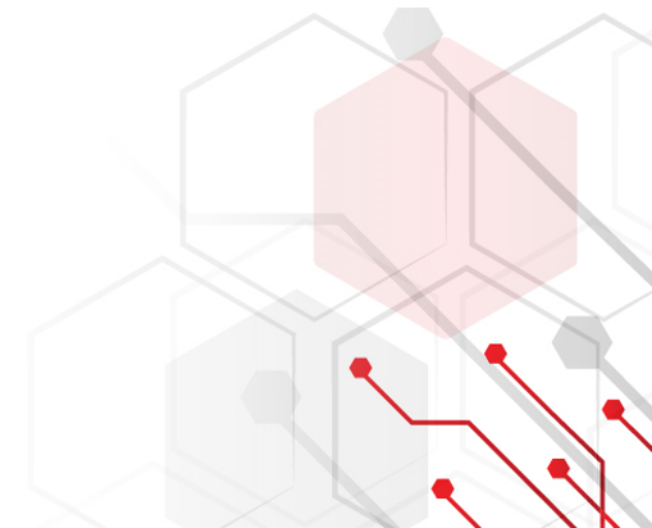


- Pilot Phase until Summer/Fall 2021
 - Canadian National Standard dependency
- Ongoing Outreach and Engagement
 - Industry Associations
 - Academia reps
 - Businesses
 - International Govts(UK, Belgium(EU), US)
 - Insurance providers
 - Managed Service Providers
- Number of completed certifications – 4*
- Two pilot programs underway support ~175 SMEs in certification
- Digital advertising campaign launching shortly
- Intending to engage further with UK Cyber Essentials and US CMMC to further discussions on recognition and/or reciprocity

Key Challenges

- Awareness
- Perceived Value
- Creating a “Pull”

* Limited awareness and COVID-19 challenges





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