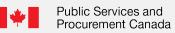
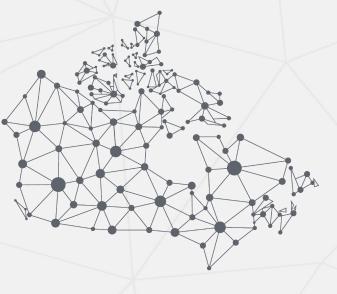
### **CPCSC Program Development Update**

Canadian Program for Cyber Security Certification (PSPC) Fall 2024

Joanne Lostracco Director General, Washington Sector



Services publics et
Approvisionnement Canada





# Outline

- 1. Context
- 2. Partners
- 3. Canadian Program for Cyber Security Certification (CPCSC) Objectives
- 4. Program Elements
- 5. Stakeholder Engagement
- 6. High-level Implementation Timelines
- 7. CPCSC Phase 1 Implementation

### Context



#### **Evolving cyber threat environment**

Canada's domestic defence supply chain is subject to increasingly frequent and sophisticated malicious cyber activity.

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#### Launch of the U.S. Cybersecurity Maturity Model Certification (CMMC)

In 2021, the US Department of Defense (DoD) introduced CMMC 2.0, which will require all suppliers to the DoD who hold Federal Contract Information or Controlled Unclassified Information, including Canadian suppliers, to obtain a cyber security certification starting in summer 2025.



#### Highly integrated defence industrial base

49% of Canadian defence exports were destined to the U.S. representing CAD \$3.1B worth of overall annual sales (2022).

#### Commitments to improving cyber security

Supports Canada's national Cyber Security Action Plan and the renewal of the National Cyber Security Strategy, along with Canada's Defence Policy: *Our North, Strong and Free* 

### **Key Partners**



Public Services and Procurement Canada is the federal lead for the CPCSC, providing horizontal coordination among eight Departments and one Crown Corporation, in addition to other roles and responsibilities within its existing mandate

#### **Partners**



Treasury Board of Canada Secretariat



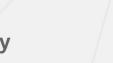




**Department of National Defence** 

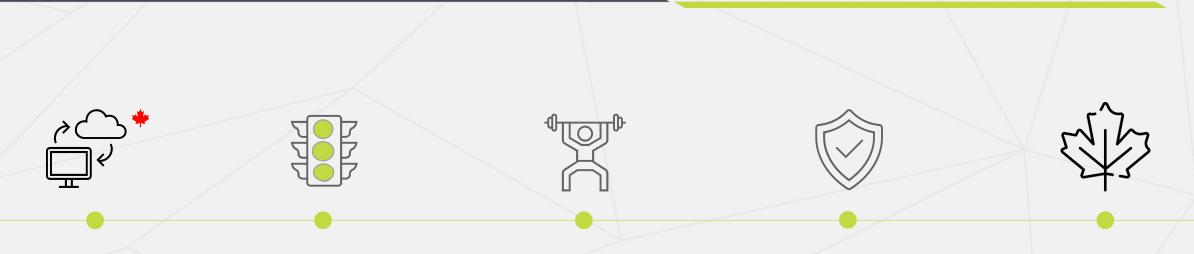






**Standards Council** of Canada

# **CPCSC** Objectives



Protect GC Data

**Maintain Industry Access** 

**Increase Cyber Resilience** 

**Maintain System Integrity** 

Protect federal contractual information below the classified level on third-party, **nonfederal systems**, networks and applications. Ensure industry has access to domestic cyber security certification recognized by the U.S. and internationally to bid and win international opportunities. Increase the cyber security baseline of Canadian industry, which in turn increases Canada's national security and economic interests, and secures supply chains Maintain **supplier system integrity** for essential Canadian Armed Forces **capabilities** and **readiness**. Grow the Canadian Cyber Security Industry

A domestic solution to cyber security certification will **increase Canadian industrial participation**, and be tailored to the Canadian context, accounting for our objectives of SME growth, and Indigenous procurement.

### **Government of Canada Information Marking**

	Protected					Controlled Goods	
Applies to information or assets that, if compromised, could <b>reasonably be expected to cause injury</b> to a <b>non-national interest</b> —that is, an individual interest such as a person or an organization.		Applies to information or assets that, if compromised, could <b>reasonably be expected to cause injury</b> to the <b>national interest</b> , defence and maintenance of the social, political and economic stability of Canada.	Controlled goods are primarily goods, including components and technical data that have military or national security				
	Protected A	Protected B	Protected C	Confidential	Secret	Top Secret	significance, which are controlled domestically
	Applies to information or assets that, if compromised, could <b>cause</b> <b>some injury</b> to an individual, organization or government.	Applies to information or assets that, if compromised, could <b>cause</b> <b>serious injury</b> to an individual, organization or government.	Applies to information or assets that, if compromised, could <b>cause</b> <b>extremely grave</b> <b>injury</b> to an individual, organization or government.				by the Government of Canada and defined in the Defence Production Act.

# **Reciprocity with US CMMC Program**

### Reciprocity with CMMC

Canada's program seeks to leverage the U.S. Government's CMMC program and the Canada-U.S. bilateral security instrument.

Canada is seeking U.S. recognition of the CPCSC to achieve reciprocity. CPCSC and CMMC will be based on **similar** standard and controls.

**Reduces burden** by allowing a company to achieve certification in one country's program, **recognized** and **accepted** by the other.

Government of Canada will continue to leverage its **bilateral security instruments** with foreign partners to ensure **our domestic cyber security program** is **aligned** and **collaborative**.

### **CPCSC Certification Levels**

CPCSC Certification levels will mirror CMMC's three levels.

The required certification level for each RFP will be determined through a Department of National Defence-led **Risk Profile.** 

<b>CPCSC Level 3</b>	Risk Profile: Expert Approach: External Assessment Responsible: Department of Defence Re-Assessment: Triennial Prerequisite: Level 2 certification
<b>CPCSC Level 2</b>	Risk Profile: AdvancedApproach: External AssessmentResponsible: SCC-Accredited Third-Party AssessorRe-Assessment: TriennialPrerequisite: Level 1 self-assessment
<b>CPCSC Level 1</b>	Risk Profile: Foundational Approach: Self-Assessment Responsible: Supplier Re-Assessment: Annually Prerequisite: N/A

### **Canadian Industrial Cyber Security Standard - Development**

The Canadian Centre for Cyber Security's Security Architecture (SA) team are working closely with the National Institute of Standards and Technology (NIST) on the development of **the Canadian Industrial Cyber Security Standard** 

Canadianizing NIST SP 800-171 Rev3 Contextualizing each requirement with Canadian sourcing, publications, and official language compliance

Technically identical standard

#### Announcement: Fall 2024

Canadianizing NIST SP 800-172 NIST is **reviewing** the **list of control requirements** to ensure its effectiveness

**Technically identical standard** once NIST finalizes SP 800-172 new controls in 2025

Announcement: More details to follow

### **Canadian Industrial Cyber Security Standard - Development**

The Canadian Centre for Cyber Security's Security Architecture (SA) team are working closely with the National Institute of Standards and Technology (NIST) on the development of **the Canadian Industrial Cyber Security Standard (ITSP.10.171)** 

### User identification, authentication, and reauthentication

Requirement Number 03.05.01

a. Uniquely identify and authenticate system users and associate that unique identification with processes acting on behalf of those users.

b. Re-authenticate users when [Assignment: organization defined circumstances or situations requiring reauthentication].

Source Controls: IA-02, IA-11

Supporting Publications: SP 800-63-3 [27]

# **Canadianized** User identification, authentication, and re-authentication

Requirement Number 03.05.01

a. Uniquely identify and authenticate system users and associate that unique identification with processes acting on behalf of those users.

b. Re-authenticate users when [Assignment: organizationdefined circumstances or situations requiring reauthentication].

Source Controls: IA-02, IA-11

Supporting Publications: Cyber Centre User Authentication Guidance for Information Technology Systems (ITSP.30.031)

### **CPCSC Contract Cyber Risk Assessment Criteria**

### Risk Assessment Criteria

DND is finalizing **risk assessment criteria** alongside partners.

**Phasing in** of requirements based on scoping criteria.

**\** 

#### **Risk Profile**

A **Risk Profile** will determine the certification level. DND and partners are currently considering **sensitivity** of information & criticality of goods and services.

For sensitivity, currently analysing potential mappings of CUI types to Protected markings and Controlled Goods.



#### Flow Down

Requirements will flow down to suppliers via **contract clauses** and **SOW statements**.

**Primes** will be **responsible** for the **flow down** and **compliance** of its supply chain.



### **Accreditation Ecosystem**

The Standards Council of Canada (SCC) is supporting this new Canadian program by aligning with the United States' Cybersecurity Maturity Model Certification (CMMC) program.



Level 2 conformance will be assessed by accredited 3PAOs.

SCC will accredit these 3PAOs.

To become a **3PAO**, an organization must be **accredited** to **ISO/IEC 17020**.

### SCC Updates

The program is **under development**, aligning with CMMC.

You can **begin your journey** to **becoming** an **accredited 3PAO today**.

Interest in the program is being tracked to share updates.

Let us know if you are interested so we can ensure you're signed up for updates.

# **Canadian Centre for Cyber Security (CCCS)**

The Canadian Centre for Cyber Security's (CCCS) **Defence Industrial Base (DIB) Partnerships** team connects the DIB sector with free CCCS tools, services, and advice and guidance.



Serves the Government of Canada, Canadian critical infrastructure sectors, the private sector, and academia.



Has access to **unique foreign intelligence** that enables us to **stay ahead** of **emerging threats**.



Provides **advice** and **guidance** to help small and large organizations become more **cyber resilient**.



**Connect** with DIB Partnerships team to **onboard** to CCCS **services**: <u>dib-par-bid@cyber.gc.ca</u>

### **CCCS CPCSC Resources**

#### The CPCSC Preparatory Self-Assessment Tool

Working with Public Safety Canada to **modify** the existing **Canadian Cyber Security Tool** (CCST 2.0) to self-assess against **the Canadian Industrial Cyber Security Standard.** 

DIB partners can map their assessment results to a **System Security Plan (SSP)**, using the available template. Partners can use the template to develop an SSP to address gaps or vulnerabilities.

#### **Publications for CPCSC Readiness**

The DIB Partnerships team is working with adjacent CCCS teams such as the Cyber Security Guidance team, **develop** advice and guidance for CPCSC readiness.

Currently plans are being made for the following publications:

- 1. System Security Plan Template
- 2. CPCSC Readiness Checklist

# **CPCSC** Request for Information – Insights

In May 2024, PSPC Washington launched a comprehensive **Request for Information** to assess the **readiness**, **perspectives**, and **needs** of key stakeholders in relation to the **Canadian Program for Cyber Security Certification** (CPCSC) and the US **Cybersecurity Maturity Model Certification** (CMMC).



57% of prime contractors prefer CPCSC certification if fully reciprocal with CMMC.

**50%** of **prime contractors** foresee **difficulty flowing down CPCSC requirements** to their subcontractors.



58% of IT consultants are interested in becoming accredited CMMC/CPCSC assessors.

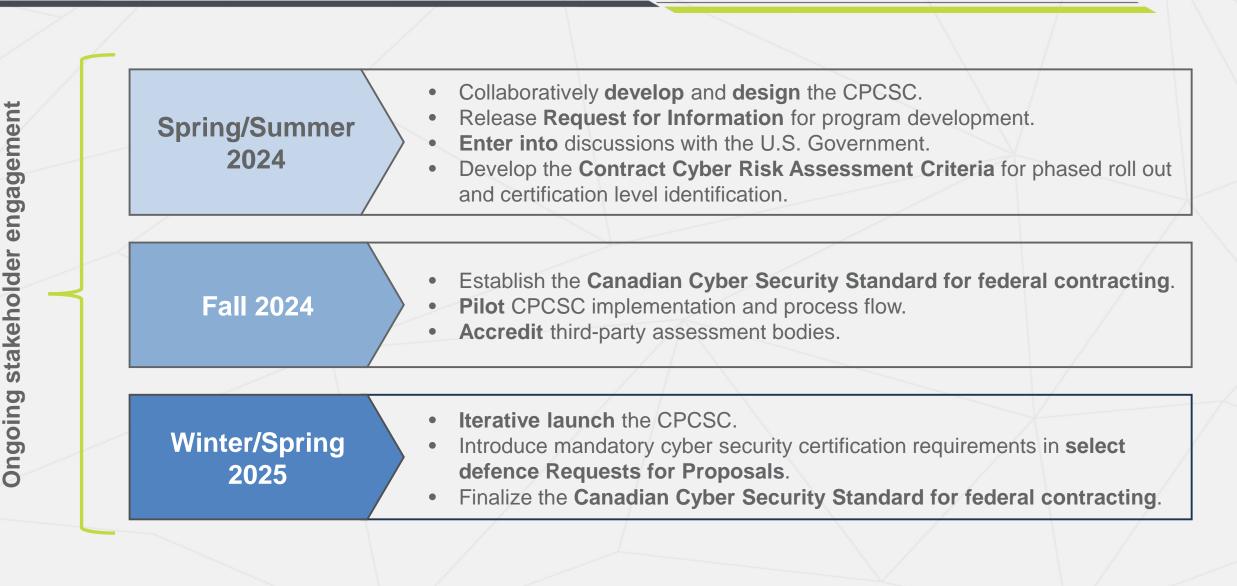


**Subcontractors** reported **lower cyber maturity** compared to prime contractors and consultants, **concerns** about the **cost** and **complexity** of compliance, particularly for smaller entities.



IT Consultants and Service Providers expressed a need for clearer guidance on CPCSC applicability to cloud services, managed security offerings, with a strong desire to align CPCSC with existing security standards (SOC 2, ISO 27001, ITSG-33).

# **High-level Implementation Timelines**



### **CPCSC First Phase Implementation Strategy**

CPCSC will begin with the First Phase of implementation in early 2025, focusing on:

/	January 2025	CPCSC Level 1	
	The Government of Canada will introduce CPCSC through a Soft Launch in January 2025.	CPCSC Soft Launch will focus on the 12 Level 1 controls referenced in ITSP.10.171 Standard.	An <b>iterative</b> and collaborative launch of CPCSC to <b>build</b> <b>stakeholder trust</b> through <b>feedback</b>
	Contract Selection	Accreditation Ecosystem	loops, test key program elements, onboard users, and
	Department of National Defense will leverage the CPCSC Contract Cyber Risk Assessment Criteria to identify the initial contracts with CPCSC Level 1.	The Standards Council of Canada will focus on building out the capacity of the Third-Party Conformity Assessment ecosystem for Level 2 Certifications.	identify key risks for full implementation.

### **CPCSC First Phase: Level 1 Controls**

ITSP.10.171 (NIST SP 800-171 Rev. 3)

03.01.01 Account Management	03.01.02 Access Enforcement	03.01.20 Use of external systems	03.01.22 Publicly accessible content	03.05.01 User identification, authentication,	03.05.02 Device Identification and
03.08.03	03.10.01	03.10.07	03.13.01	and re- authentication 03.14.01	authentication 03.14.02
<i>Media</i> <i>Sanitization</i>	Physical Access Authorizations	Physical Access Control	Boundary Protection	Flaw Remediation	<i>Malicious Code Protection</i>

# **Contact us!**

### Canadian Program for Cyber Security Certification CPCSC Secretariat



TPSGC.PACertcybersecur-APCyberSecurCert.PWGSC@tpsgcpwgsc.gc.ca



<u>Cyber security certification for</u> <u>defence suppliers in Canada –</u> <u>Canada.ca (tpsgc-pwgsc.gc.ca)</u>