

ACSS DISCLOSURE 2023

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# BANK OF CANADA RISK-MANAGEMENT STANDARDS

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This disclosure can also be found at [www.payments.ca](http://www.payments.ca)  
For further information, please email [info@payments.ca](mailto:info@payments.ca)

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## Executive summary

Payments Canada<sup>[1]</sup> underpins the Canadian financial system and economy by owning and operating Canada's payment clearing and settlement infrastructure, including associated systems, by-laws, rules and standards.

Payments Canada operates two primary clearing and settlement systems: the Automated Clearing Settlement System (ACSS) and the High Value Payment System, Lynx. In addition, the US Dollar Bulk Exchange (USBE) system is used for clearing payments in U.S. dollars.<sup>[2]</sup>

The Governor of the Bank of Canada has designated, in May 2016, ACSS for oversight under the *Payment Clearing and Settlement Act* (PCSA) as a clearing and settlement system that has the potential to pose payment system risk. Designation brings the system under the formal oversight of the Bank of Canada, which requires compliance with Risk Management Standards<sup>[3]</sup> (Standards) for Prominent Payment Systems (PPS).

The Standards are based on the CPMI-IOSCO<sup>[4]</sup> Principles for Financial Market Infrastructures<sup>[5]</sup> (PFMIs) but were modified to reflect that PPS faces risks of a different nature and lower magnitude than systemically important payment systems do; PPS Standards and their application are, therefore, proportional to the risks present in the PPS.

This document is intended to provide relevant disclosure to members and stakeholders on Payments Canada's governance, operations and risk-management framework with regard to the ACSS.

This disclosure describes Payments Canada's operations and its approach to observing the applicable Standards as well as how its Modernization project will meet the Bank of Canada's regulatory objectives and PPS Standards.

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## Summary of major changes since last disclosure update

API functionalities are now available for ACSS Direct Clearers providing for more efficiency by offering opportunities to automate current manual processes and eliminate manual errors.

Rule amendments to improve various aspects of the ACSS in support of its efficient use and operation were implemented since the previous disclosure of December 2020:

- Accommodate for Image Captured Payment (ICP) exchange of government paper instruments (ACSS Rule G3)

The implementation of Image Captured Payment (ICP) exchange for government paper instruments with various financial institutions prompted the need to update Rule G3, which addresses the redemption and return of government paper instruments. The amendments to Rule G3 include the inclusion of image-related definitions. Return timeframes have also been added to align with Rule A10.

- Improve clarity of Indirect participation in the Electronic Data Interchange (EDI) environment (ACSS Rule E3)

The Rule E3 outlines the procedures for the exchange of EDI payment items between financial institutions. The amendments to Rule E3 clarify definitions of certain terms to reflect the use of representative arrangements by direct clearers. The registration procedures for both direct and indirect participants have also been clarified.

- Update to cross-border arrangement notification requirements (ACSS Rule C1)

The Rule C1, pertaining to cross-border arrangements for the ACSS, required participants to notify Payments Canada of any changes to authorized personnel accessing the systems 30 days in advance of a change. However, as meeting this requirement could be challenging when employees leave the organization or change roles with less than 30 days' notice and to align with members' current practices, the notification requirement was amended. The approved amendments

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to ACSS Rule C1 are now requiring notice of changes within 30 days of the change coming into effect, rather than 30 days before, as long as the change occurs within the same jurisdiction.

- Improve to Pre-Authorized Debit (PAD) agreements to facilitate PAD user experience (ACSS Rule H1)

Rule H1 outlines the procedures for the clearing and settlement of PADs. The amendments reflect considerable technological and payment advancements since its last review. Notable amendments to Rule H1 include (1) removal of the distinction between electronic and paper PAD agreements to reduce onboarding time and improve the customer experience, and facilitate contract management for businesses accepting PADs, (2) the definition of “commercially reasonable” was revised to allow a payee to use a form of verification that meets the circumstances of the PAD, their relationship with the payor, and meets the payee’s operational capabilities, as long as that verification method can ultimately be determined by a court of law and (3) the definition of “one-time PADs” was created to provide consistency to payors; one-time PAD agreements now automatically terminate once the payment has been completed, and any subsequent PAD transaction(s) require a new agreement.

Additional updates will be provided and published following significant changes to the system or its environment.

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## General background of Payments Canada

Payments Canada's mandate is to:

- Establish and operate national systems for the clearing and settlement of payments and other arrangements for the making or exchange of payments;
- Facilitate the interaction of Payments Canada's systems with others involved in the exchange, clearing and settlement of payments; and
- Facilitate the development of new payment methods and technologies.

In pursuing its mandate, Payments Canada promotes the efficiency, safety and soundness of its clearing and settlement systems and takes into account the interests of users. In order to achieve this, dialogue, consultation, research, policy development and outreach are imperative to Payments Canada's stewardship of the payment ecosystem in Canada.

Lynx, Payments Canada's new high value payment clearing and settlement system, facilitates the transfer of irrevocable payments between Canadian financial institutions while the ACSS is where the vast majority of payments in Canada are cleared. That amounts to approximately 36.5 million transactions on an average business day. Although it handles 99 per cent of the daily transaction volume, it only accounts for 13 per cent of the value cleared by our systems.

Along with operating the systems, Payments Canada develops, implements and updates the rules and standards that govern the clearing and settlement of payments between its members.

### **Payments Canada members**

The Bank of Canada and all chartered banks operating in Canada are required to be members of Payments Canada. Trust and loan companies, credit union centrals, federations of caisses populaires and other deposit-taking institutions, life insurance companies, as well as securities dealers and money market mutual funds that meet

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certain requirements are also eligible to be members. As of December 2022, Payments Canada had 111 active members. Payments Canada's Member Advisory Council (MAC), which was created by the *Canadian Payment Act* (CP Act), is composed of a maximum of 20 members appointed by the board of directors. MAC serves as a consultative and engagement forum for the Payments Canada membership. It is broadly representative of the diversity of Payments Canada's membership and provides the board of directors with advice on Payments Canada's clearing and settlement systems, the interaction of those systems with others involved in the exchange, clearing and settlement of payments and the development of new technologies.

Members of Payments Canada can be either direct or Indirect Clearers in the ACSS. Eligibility criteria for being a Direct Clearer include being a Payments Canada member and maintaining a settlement account and loan facility at the Bank of Canada. An Indirect Clearer is a member of Payments Canada that does not maintain a settlement account or loan facility at the Bank of Canada and has a Direct Clearer acting as its agent in the ACSS clearing and settlement process.

## **Payments Canada stakeholders**

Payments Canada develops and implements rules, standards and procedures that apply to payments exchanged by Payments Canada members who use these systems for clearing and settlement. Although the rules are developed for payments exchanged by members, they do affect the way consumers, government and businesses make payments.

Other payment systems fall partially within the scope of Payments Canada domain. In the case of Interac and some third-party payment processors, these schemes operate separately but rely on Payments Canada's systems for clearing and settlement. Many private offerings or schemes (e.g. credit cards and e-wallets), choose to rely on Payments Canada's Lynx to effect settlement.

The Payments Canada Stakeholder Advisory Council (SAC), which was established by the *Canadian Payments Act* (CP Act), has a maximum of 20 members representing the views of Payments Canada's broad stakeholder base, including consumers, businesses,

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retailers, and governments, as well as related service providers. The SAC provides advice to our board of directors on payment, clearing, and settlement matters, and contributes input on proposed initiatives, including by-laws, policy statements, and rules that affect third parties. It also identifies issues that might concern payment system users and service providers and suggests how they could be addressed.

### **Payments Canada legal and regulatory framework**

The CP Act sets out the legal framework for Payments Canada, including its mandate, the types of organizations eligible for membership and the role of the board of directors.

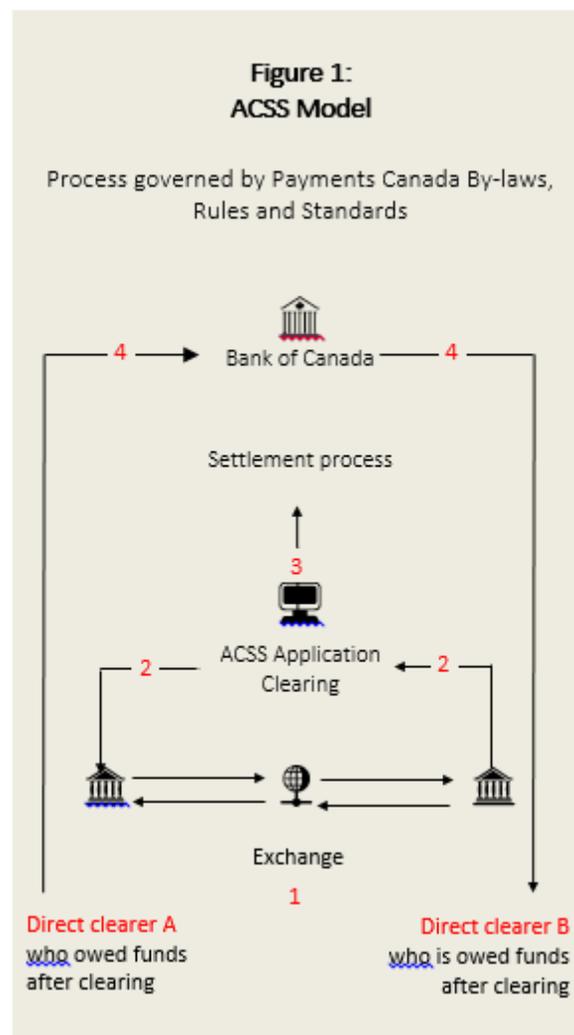
The Minister of Finance has oversight powers with respect to Payments Canada and payment systems under the CP Act. These include approval and directive powers regarding by-laws, rules and standards set out by Payments Canada or any other payment systems designated for such oversight under the CP Act.

The *Payment Clearing and Settlement Act* (PCSA) gives the Bank of Canada responsibility for overseeing clearing and settlement systems for the purpose of controlling systemic risk or payment system risk. Payments Canada's Lynx has been designated as systemically important and ACSS as a prominent payment system under this Act. As a result, Payments Canada is also subject to oversight from the governor of the Bank of Canada for Lynx and the ACSS.

## ACSS design and operations

From an operational perspective, the core of the ACSS, the “ACSS application”, is an information system which determines clearing balances based on volume and value totals entered into it. It is supported by standards, by-laws and rules framework which govern the exchange, clearing and settlement of those items.

The “ACSS model”, more broadly speaking, encompasses the processes, requirements, arrangements, system features, and functions that apply to the bilateral exchange of payment items between eligible Payments Canada members and the clearing and settlement of those payment items.



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The ACSS model is characterized as debit entry<sup>[6]</sup> deferred net settlement system<sup>[7]</sup> (DNS), which provides for exchange of payment items between members of Payments Canada who participate in the ACSS and the subsequent clearing and settlement of those payment items.

More specifically, the ACSS model is categorized as “peer-to-peer” because eligible participants exchange payment items directly with each other on a bilateral basis (Figure 1: flow 1) and, following the exchange of these payments, Direct Clearers, which are owed funds, create manual entries in the ACSS application against each other on a bilateral basis (Figure 1: flow 2). The ACSS application then calculates both bilateral and multilateral net positions (Figure 1: flow 3). Multilateral net positions are the clearing balances used for settlement across Direct Clearers ACSS settlement accounts at the Bank of Canada (Figure 1: flow 4). A summary of the ACSS model is depicted in Figure 1.

#### **i- Exchange of Payments**

The specifics of the exchange vary depending on the stream of payment items. Direct Clearers exchange their own paper or electronic payment items and those of their Indirect Clearers with each other before entry into the ACSS application. Payments Canada sets the rules and standards that apply to the exchange of different payment items.

Paper items that are accepted on deposit at branches and Automated Banking Machines (ABMs) throughout the country are transported to one of six regional exchange points.

Electronic Items are exchanged electronically via the CPA Services Network (CSN) or other telecommunications networks (i.e. Interac, The Exchange Network).

#### **ii- Clearing of Payments**

The clearing process is the same for each stream of payment items. Following the exchange of paper and electronic payment items, Direct Clearers that are owed funds create entries as of appropriate value date in the ACSS application against each other Direct Clearer. Manual entries are made into the ACSS application. Entries are made on a regional or national basis and there are

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multiple entries throughout the day. Each entry is a “batch” representing multiple payment items of the same stream and is entered with a total volume and value by payment stream.

The ACSS application combines all payment streams for all regions and all entries and calculates multilateral netted positions. The ACSS application nets “by position”, therefore each party remains legally obligated for the underlying gross amounts until the net amount is paid. The ACSS application calculates both bilateral and multilateral net positions. Multilateral net positions are the “ACSS clearing balances” to be settled. The ACSS application provides statistical reports on all clearing activities to participants and the Bank of Canada.

### **iii- Settlement**

Each Direct Clearer starts and ends each ACSS cycle with a zero balance “ACSS settlement account” at the Bank of Canada.

Settlement is affected by the Bank of Canada through a sequence of credit and debit entries to Direct Clearers’ ACSS settlement accounts in accordance with their final ACSS clearing balances. Lynx enables ACSS settlement as it is used to transfer funds to (from) the Bank of Canada from (to) Direct Clearers to round the process.

## **Participation**

Participation in the ACSS model is based on a tiered framework. Participant members of Payments Canada may be either a Direct Clearer, Group Clearer or Indirect Clearer. All Participant members are responsible to ensure payment items are exchanged in accordance with by-laws and rules, and that entries into the ACSS are made in accordance with the rules. Only Direct Clearers, Group Clearers and the Bank of Canada may make entries into the ACSS.

There are 13 Payments Canada members that participate as Direct Clearers or Group Clearers. Each Direct Clearer or Group Clearer makes entries in the ACSS for the clearing of payment items.<sup>[8]</sup> The remaining members (over 100) participate as Indirect Clearers and use the services of Clearing Agents.

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For a member to act as a Direct Clearer, the member must:

- Maintain a settlement account with the Bank of Canada.
- Have a loan facility with the Bank of Canada.
- Meet the technical, financial and other requirements set out in the rules.

The requirements to qualify as a Group Clearer are essentially the same.

The role of clearing agent can be performed by a Direct Clearer or a Group Clearer.<sup>[9]</sup> A Clearing Agent, on behalf of Indirect Clearer(s), exchanges payment items and either effects clearing and settlement or makes entries into the ACSS application. This is accomplished through settlement accounts each Indirect Clearer holds with their respective clearing agent. Arrangements between Clearing Agents and Indirect Clearers are provided for in bilateral contracts external to Payments Canada by-laws and rules.

Throughout the remainder of this document, references to Direct Clearers will imply the inclusion of Group Clearers, unless specifically noted.

### **Risk Management**

Payments Canada has a sound risk-management program for comprehensively managing its risks. Risk is the uncertainty that surrounds future events and outcomes. As such, it is inherent in all we do and, therefore, risk management is critical to Payments Canada fulfilling its core purpose, vision, and strategic plan.

At Payments Canada, risk is managed in accordance with a risk appetite approved by the board of directors. To do this, Payments Canada develops strategies to mitigate risk and maximize opportunities. Payments Canada's formal risk management program is overseen by its board of directors, President and Chief Executive Officer (CEO), Chief Risk Officer (CRO), Executive Leadership Team (ELT), and Payments Canada personnel and internal governance committees.

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Payments Canada engages in a structured risk management program and key processes which are grounded in:

- The Enterprise Risk Management (ERM) Policy, which sets the overall intent and expectations for risk management in Payments Canada.
- The Risk Appetite Policy, which articulates the risk appetite of Payments Canada; that is, it anchors the board's oversight of risk management and guides decision-making throughout the organization.
- The Enterprise Risk Management (ERM) Framework is issued in support of the ERM Policy. It outlines the organization's approach to ERM which includes risk governance; identifying, measuring, actioning and managing risks in alignment with Payments Canada's risk appetite, legislative mandate, and regulatory expectations.
- The Operational Risk Management (ORM) policy is developed in the context of the Enterprise Risk Management (ERM) Policy to ensure people, processes, systems and information technology (IT), policies, and external risks are managed in a way that is consistent with Payments Canada's risk appetite.

Overall, risk controls embedded within the ACSS model include the default framework (see [Standard 9](#) for more detail) and access criteria (see [Standard 13](#) for more detail).

## Statistics

Table 1 provides a summary of the value and volume cleared and settled annually between Direct Clearers through the ACSS.

**Table 1 - Annual statistics**

Payment Item	Key Metrics[10]	2021	2022
Cheques and paper items	Volume	354,070,262	336,087,496
	Value (\$000)	2,951,034,975	2,866,554,466
Automated Funds Transfers (AFT) debits	Volume	1,012,746,276	1,043,550,343
	Value (\$000)	1,090,139,710	1,245,536,419
Automated Funds Transfers (AFT) credits	Volume	1,138,887,577	1,158,534,482
	Value (\$000)	3,634,608,752	4,028,169,606
Automated Banking Machine (ABM) transactions	Volume	104,750,885	117,153,202
	Value (\$000)	16,465,445	20,623,052
Point of Sale (POS) debits and credits	Volume	5,326,766,571	5,955,792,923
	Value (\$000)	219,841,282	247,272,599
Electronic Data Interchange (EDI)	Volume	4,737,429	4,929,388
	Value (\$000)	199,624,150	225,403,661
Electronic remittances	Volume	477,708,449	498,559,942
	Value (\$000)	298,802,916	322,992,641
Total volume		8,419,667,449	9,114,607,776
Total value (\$000)		8,410,517,230	8,956,552,444

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## Standards narrative disclosure

### **Standard 1: Legal basis**

*A Prominent Payment System (PPS) should have a well-founded, clear, transparent and enforceable legal basis for each material aspect of its activities in all relevant jurisdictions.*

Payments Canada owns and operates the ACSS as set out in the CP Act.

The legal framework for the ACSS is built on a strong statutory foundation, including the CP Act and the PCSA, which outlines the oversight of Payments Canada. The legal framework and the underlying payment exchanges are set out in (i) CPA by-law No. 3 – Payment Items and Automated Clearing Settlement System (ACSS by-law); (ii) a comprehensive set of rules and standards; and (iii) CPA by-law No. 6 – Compliance (Compliance by-law).

The ACSS by-law is a regulation under the federal *Statutory Instruments Act* and subject to the requirements and scrutiny of that legislation. Payments Canada by-laws that relate to the administration of Payments Canada may be approved by the board of directors. All other by-laws (and by-law amendments) must be approved by the Minister of Finance.

Amendments to the rules are approved by the board of directors, which includes seven independent directors, and are also subject to the rule disapproval process of the Minister of Finance. As such, the activities of Payments Canada in the operation of the ACSS flow from statutory authority, which provides a high level of certainty, transparency and enforceability.

Working together, Payments Canada and its members have put in place common rules and procedures to maintain and enhance an effective payments system. Working groups, committees and other such forums are engaged in the evolution of the ACSS and its rules. All ACSS rules and amendments are reviewed by the Bank of Canada, approved by the board of directors and are subject to the rule disapproval process of the Minister.

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The material aspect of its clearing and settlement activity that Payments Canada considers requiring a high degree of legal certainty include: netting, finality of settlement and the default management procedures.

### **Legal basis for netting**

- The ACSS calculates settlement totals on the basis of multilateral position netting. While there is less legal certainty in terms of enforceability of position netting (than there is with netting by novation), there is a greater degree of assuredness when the netting arrangement is supported by a strong legal framework.
- The legal framework for netting in the ACSS is made up of a combination of legislation (primary and subordinate) and the common law. The PCSA provides a legislative basis for netting by participants in a clearing and settlement system. The legislation offers protection for all “netting agreements” between financial institutions and the termination of those agreements in the event of a default or insolvency. Netting is also based to a large extent on the right of set-off, the availability of which is determined by the common law and legislation, including insolvency legislation in Canada.
- CPA by-laws and rules made pursuant to the CP Act also deal with netting. Netting for settlement purposes is explicitly provided for under the ACSS by-law, where settlement is defined as “payment of the clearing balance”. “Clearing balance” is defined as “the total of the net amounts owing to or by a member as a result of clearing”. The term “clearing” is defined as “the reconciliation of payment items that were exchanged and the calculation of the ACSS clearing balances.” It is expected that the provisions in the ACSS by-law with respect to netting would constitute a “netting agreement” within the meaning of the PCSA.

### **Finality of settlement**

- The ACSS clearing balances of Direct Clearers are settled on the books at the Bank of Canada following the close of each applicable ACSS cycle. In accordance with the ACSS by-law, settlement at the Bank of Canada is final and may not be reversed under any circumstances.

## Default management procedures

- CPA by-laws and rules clearly articulate Payments Canada’s default framework to ensure the system settles, while also reducing the risk of a negative impact on the reputation of Payments Canada, the Canadian payment system and Payments Canada members. More detailed information regarding the framework for default can be found in [Standard 9](#) Participant-default rules and procedure.

## Standard 2: Governance

*PPS should have governance arrangements that are clear and transparent, promote the safety and efficiency of the PPS, support confidence in and the smooth functioning of the markets it serves, and support other relevant public interest considerations as well as the objectives of relevant stakeholder*

The governance arrangements that apply to the ACSS are those that apply more broadly to Payments Canada as an organization.

These arrangements are prescribed and outlined in the CP Act, regulations made under the act and Payments Canada by-laws and rules. These instruments are publicly available and provide a high level of clarity and transparency around Payments Canada’s objectives, lines of responsibility within the board of directors and management, accountability and oversight; and the interaction with stakeholders and the public. The CP Act also specifically invests Payments Canada with the responsibility to “promote the efficiency, safety and soundness of its clearing and settlement systems and take into account the interests of users” in pursuing all objects of the association. In addition, the PCSA, which applies to the ACSS, contemplates that the supervision and regulation of clearing and settlement systems (as an essential element of the financial system in Canada) is predicated on the need to control risk and promote the efficiency and stability of the financial system in Canada.

The Payments Canada board of directors consists of an independent chair, the president and CEO, seven independent directors (including the chair) and five member directors.

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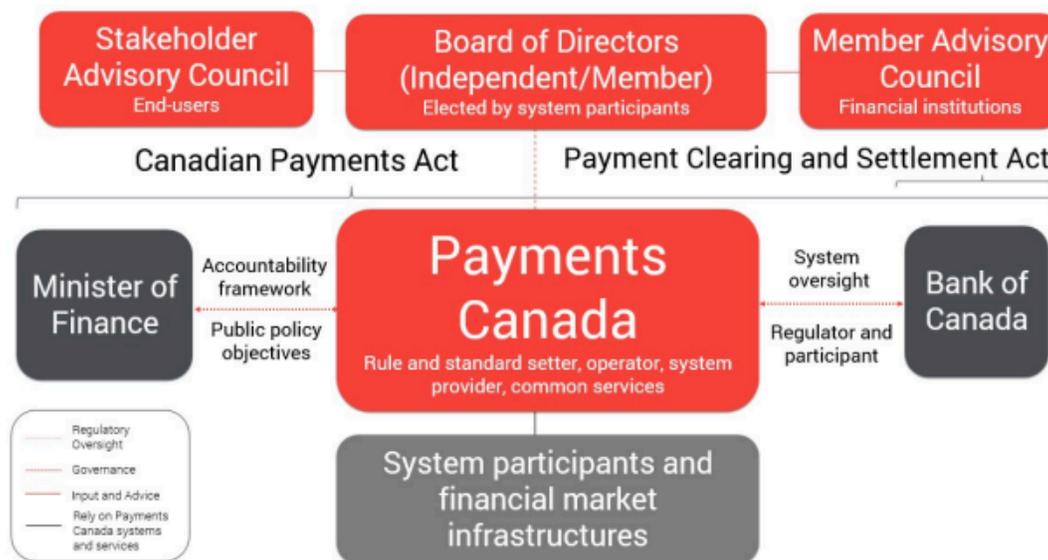
Domestic systemically important banks are represented by at least two and a maximum of three directors.

Under the CP Act, Payments Canada by-laws that relate to the administration of Payments Canada may be approved by the board of directors. All other Payments Canada by-laws are subject to approval by the Minister of Finance, who also has the authority to review new Payments Canada rules or amendments to existing rules and, if appropriate, disallow the whole or part of a rule. The Minister also has the power to issue a directive including a directive to make, amend or repeal a by-law, rule or standard.

The PSCA gives the Bank of Canada responsibility for overseeing clearing and settlement systems for the purpose of controlling systemic risk or payment system risk. Payments Canada's ACSS has been designated as a prominent payment system under this act, so Payments Canada is also subject to oversight from the governor of the Bank of Canada for the ACSS. The Bank of Canada settles the positions among ACSS participants, which have settlement accounts with the Bank of Canada, and supports settlement by providing secured loans or advances to direct participants with short positions in their settlement accounts.

Payments Canada employs industry best practices in governance through various policies to increase efficient and effective decision making within its legislative framework. Roles and responsibilities around risk management and reporting of risk are clearly defined in Payments Canada's ERM Policy and Risk Profile. Payments Canada also employs strong practices that ensure accountability to its users and the public through its engagement with SAC and MAC, its member and stakeholder survey and its communications strategy.

Figure 2: Governance Structure



Risk management governance starts with the Payments Canada board of directors. Also contributing to the work of Payments Canada is the SAC and the MAC, which provide advice and expertise to the board of directors on payment, clearing and settlement issues.

The board of directors has four sub-committees: the Human Resources and Compensation Committee, the Governance and Nominating Committee, the Audit and Finance Committee and the Risk Committee.

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### **Standard 3: Framework for the comprehensive management of risks**

*A PPS should have a sound risk-management framework for comprehensively managing legal, credit, liquidity, operational and other risks*

Risk management is critical to Payments Canada fulfilling its core mandate, purpose, mission, vision and strategic plan.

Payments Canada engages in a structured risk management process that is overseen by its board of directors, President and CEO, CRO, ELT, and Payments Canada personnel and internal governance committees. The board of directors-approved ERM Policy and Framework sets out, at the enterprise level, Payments Canada's key principles regarding risk, risk appetite, enterprise risk management process, enterprise risk reporting approach and associated roles and responsibilities. Payments Canada employs a three-lines-of-defense model for risk management including:

- Risk owners, as the first line of defense, who are responsible for managing risks on a day to day basis
- Enterprise Risk Management and Compliance, as the second line of defense, establish risk management and provides oversight and challenge to ensure risks are managed within the established risk appetite;
- Internal Audit, as the third line of defense, who provides independent assurance that controls are effectively designed and implemented.

The ERM program is designed to meet the regulatory requirements established in the Bank of Canada's Risk Management Standards for Designated Financial Market Infrastructures. It is also influenced by the ISO 31000 Risk Management Standard, COSO's<sup>[11]</sup> Enterprise Risk Management - Integrated Framework and Office of the Superintendent of Financial Institutions (2016) "Operational Risk Management Guideline".

It is Payments Canada policy to manage risk in accordance with a risk appetite approved by the board of directors. To do this, Payments Canada develops strategies to mitigate risk (probability and impact) and maximize the positive effects of strategic opportunities. The board of directors, President and CEO, CRO, ELT, Payments Canada personnel and internal governance committees all play a role in this process.

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Payments Canada has several mechanisms for assessing and reporting on its risks throughout the year: the enterprise risk profile is reviewed quarterly by the Internal Risk Committee (IRC) and Risk Committee of the Board; an operational report for ACSS and LVTS is provided to the Bank of Canada quarterly.

#### **Standard 4: Credit risk**

*A PPS should effectively measure, monitor and manage its credit exposures to participants and those arising from its payment clearing and settlement processes. A PPS should maintain sufficient financial resources to cover its credit exposure arising from the default of the participant and its affiliates that would generate the largest aggregate credit exposure for the PPS in extreme but plausible market conditions*

The ACSS model, as a deferred netting system, exposes ACSS participants to credit risk. With every batch entry to the ACSS application, a credit risk is generated and this risk is implicitly borne.

The risk materializes in the event a Direct Clearer in the ACSS defaults on its obligation to other participants in the system. More specifically, when a Direct Clearer owing funds to the Bank of Canada is not able to meet its settlement obligation when due.

Prior to March 2018, the ACSS was an uncollateralized system, in which a default of a Direct Clearer would be settled using additional contributions by the surviving Direct Clearers. To remedy the consequences of a default in an uncollateralized ACSS, Payments Canada, in consultation with members and the Bank, developed the ACSS Interim Credit Risk Model (ICRM). The ICRM is a cover 1 model. In the unlikely event that the value of the collateral does not cover the default, surviving Direct Clearers are to provide additional contributions.

The ACSS ICRM has the following components: a procedure to determine the amount of collateral required in the system, (i.e. the size of the collateral pool); a procedure to determine how much each Direct Clearer needs to contribute to the collateral pool; and a default waterfall that defines the sequence in which resources will be taken into consideration to cover a shortfall that results from a default of a direct clearer. The ICRM and obligations of direct clearers are set out in the ACSS by-law and rules.

**Figure 3: interim credit risk model components**



ACSS rules also encompass other arrangements to constrain credit risk in the event of a default, including the obligation for members to:

- i. Give notice to each of its branches, internal departments and all Indirect Clearers for which it acts as clearing agent; to immediately stop accepting, for clearing purposes, all Items drawn on, payable by or payable to the defaulting Direct Clearer; and
- ii. Immediately "block" each of its systems or processes that exchange payments with the defaulting Direct Clearer.

Other incentives provided for in the CPA by-laws and rules for the management and containment of risk, include:

- Clearing Agents can apply a minimum balance and/or collateral requirements on Indirect Clearers to help limit their credit risk exposures to Indirect Clearers. This creates an incentive for Indirect Clearers to act responsibly to limit the collateral requirements and costs;
- Clearing Agents can provide short notice to Indirect Clearers that will allow them to cease providing services under prescribed conditions that relate principally to financial and operational risk avoidance. This creates an incentive for Indirect Clearers to satisfy the terms of their arrangements so as to minimize risk for the Clearing Agents; and
- Indirect Clearers are permitted to use multiple Clearing Agents directly or indirectly to help diversify operational and financial risk concentration. This

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limits switch costs for Indirect Clearers between Clearing Agents and encourages Clearing Agents to satisfy the terms of their arrangements with Indirect Clearers and act responsibly and prudently in their operational and financial dealings with the Indirect Clearers.

Payments Canada understands the nature of credit risk that can emerge in the ACSS model, and it communicates this knowledge and expertise to members via sound research and member and committee engagement.

Full compliance with this Standard will be addressed as part of the future retail batch system. Payments Canada will review the credit risk framework holistically to consider intraday credit exposure as well as potential changes to the system from the implementation of the same-day settlement requirements. The information required to facilitate monitoring and managing of credit risk will be considered as part of the requirements.

### **Standard 5: Collateral**

*A PPS that requires collateral to manage its credit exposure or the credit exposures of its participants should accept collateral with low credit, liquidity and market risks. A PPS should also set and enforce appropriately conservative haircuts and concentration limits.*

The collateralization requirements of the system are such that Direct Clearers are required to individually pledge to the Bank of Canada appropriate securities.

The Bank of Canada determines the list of securities that are eligible to be pledged as collateral for ACSS operations. The list of eligible collateral consists primarily of securities that are issued or guaranteed by the Government of Canada or a provincial government. The list of eligible securities also includes other securities that meet minimum credit rating requirements as determined by the Bank of Canada. The Bank of Canada periodically reviews its collateral policy and can make changes in response to market developments, new financial instruments or financial conditions.

The Bank of Canada provides a collateral management system, the High-Availability

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Banking System (HABS), which combined with other related systems and process controls, ensures that only eligible collateral is accepted. Many of the eligible securities under the policy are pre-approved by the Bank of Canada, including the appropriate pricing. Any securities that are not pre-approved are reviewed on a security-by-security basis against the eligibility criteria before they can be pledged to the Bank of Canada.

The Bank of Canada provides a collateral management system, the High-Availability Banking System (HABS), which combined with other related systems and process controls ensure that only eligible collateral is accepted. Many of the eligible securities under the policy are pre-approved by the Bank of Canada, including the appropriate pricing. Any securities that are not pre-approved are reviewed on a security-by-security basis against the eligibility criteria before they can be pledged to the Bank of Canada.

The Bank of Canada retains the right to revalue collateral on an intraday basis. Collateral is valued by the Bank of Canada at market value less a discount (haircut), which depends on the type of asset, its maturity, and credit rating. The Bank of Canada imposes prudent haircuts to account for volatility of market pricing. Principally, haircuts are determined on a through-the-cycle approach, using a sample of historical data that account for periods of high volatility.

## **Standard 6: Liquidity risk**

*A PPS should effectively measure, monitor and manage its liquidity risk. A PPS should maintain sufficient liquid resources in all relevant currencies to effect same-day and, when appropriate, intraday and multi-day settlement of payment obligations with a high degree of confidence under a wide range of potential stress scenarios that should include, but not be limited to, the default of the participant and its affiliates that would generate the largest aggregate liquidity obligation for the PPS in extreme but plausible market conditions*

Payments Canada itself does not act as a liquidity provider or bear liquidity risk. With the implementation of the ICRM, the structure of the ACSS (supported by the ACSS by-law and rules), including collateral requirements and calculation of contributions, ensure that it can cover the single largest default of a Direct Clearer with a high degree of confidence. The ACSS by-law and rules cover how losses will be allocated to surviving Direct Clearers. As such, Direct Clearers must maintain liquid resources to effect settlement. Payments

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Canada engages in yearly testing of the default and additional contributions call functionality.

The ACSS application provides the ability for participants to access information to monitor their positions any time; however, the process is manual.

Full compliance with this Standard will be addressed as part of the future retail batch system. In reviewing the credit risk framework, Payments Canada will also review the liquidity risk framework to ensure the requirements will be met in the most efficient and effective way possible. The information required to facilitate monitoring and managing of liquidity risk will also be considered as part of the requirements

### **Standard 7: Settlement finality**

*A PPS should provide clear and certain final settlement by the end of the value date. When necessary, or preferable, a PPS should provide final settlement intraday or in real time.*

The ACSS by-law and rules clearly outline when settlement takes place, how settlement will be affected, and the responsibilities of Direct Clearers, Clearing Agents and Indirect Clearers. The ACSS by-law and rules also address when settlement is final and the risk of revocable items.

Of particular relevance is the following:

#### **ACSS Cycle**

- The ACSS operates on a cycle, from 11:00 ET on one business day to 11:00 ET the next business day.
- Payments Canada rules specify the initial and final closing times for the ACSS cycle, as well as cut-off times for making ACSS entries. Settlement of the ACSS 25 clearing balances is affected on the books at the Bank of Canada at the end of each ACSS cycle.
- Final ACSS clearing balances are struck at 11:00 ET on settlement date and are provided to the Bank of Canada.

- Typically, payments with a value date of “T” will settle at the close of the ACSS cycle corresponding with T, which will be the next business day (“T+1”) around 11:00 a.m.

### **Finality of settlement**

- The ACSS clearing balances of Direct Clearers are settled on the books at the Bank of Canada following the close of each applicable ACSS cycle. In accordance with the ACSS by-law, settlement at the Bank of Canada is final and may not be reversed under any circumstances.

Typically, in the current ACSS model, payments with a value date of “T” will settle at the close of the ACSS cycle corresponding with T, which will be the next business day (“T+1”) around 11:00 a.m. Although not a requirement of Payments Canada or the Bank of Canada, all direct clearers in the ACSS are also direct participants in Lynx and thus have access to intra-day collateralized credit from the Bank of Canada in Lynx, which can facilitate ACSS settlement in the rare event that the institution has problems issuing a Lynx payment (i.e., Swift or Direct Network problems) to meet its ACSS settlement obligation.

The future retail batch system will ensure that the system design would meet requirements in the most efficient and effective way possible. Exceptions for final settlement by the end of the value date would be allowed where it is technically infeasible (i.e., cheques) provided there are compensating controls (such as guarantees using collateral and/or other equivalent financial resources until settlement).

### **Standard 8: Money settlements**

*A PPS should conduct its money settlements in central bank money when practical and available. If central bank money is not used, a PPS should minimize and strictly control the credit and liquidity risk arising from the use of commercial bank money.*

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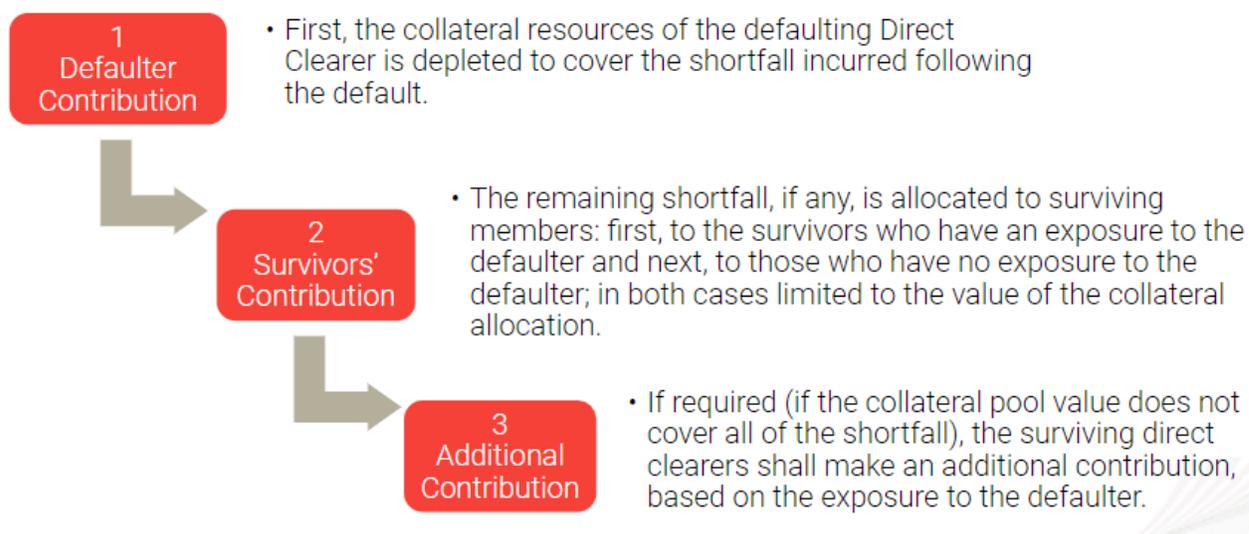
The ACSS model uses claims on the Bank of Canada for settlement purposes. In accordance with the ACSS by-law, each Direct Clearer and group clearer is required to maintain a settlement account on the books of Bank of Canada specifically for the purpose of settling its multilateral net position.

### **Standard 9: Participant default rules and procedures**

*A PPS should have effective and clearly defined rules and procedures to manage a participant default. These rules and procedures should be designed to ensure that the PPS can take timely action to contain losses and liquidity pressures and continue to meet its obligations.*

The ACSS ICRM is a cover 1 defaulter pay model. The legal framework for ACSS participant default is set out in the ACSS by-law and rules. The ACSS by-law clearly defines the circumstances of participant default and outlines the formula for determining the contributions for surviving participants.

In the event of a default within the ACSS, Payments Canada's Rule L1 sets out the procedure on how the default will be covered. The default waterfall provides clarity on the order in which the collateral allocated to the ACSS would be used to effect settlement on the day of default.

**Figure 4: Default Waterfall**

Since 2017, testing of the default functionality in ACSS is conducted annually. Results of the exercise, including gaps and lessons learned, will be shared with ACSS Direct Clearers, Payments Canada management, and the Bank of Canada. Payments Canada, in line with its Business Continuity Policy, will continue to evolve the scope and complexity of these tests.

### **Standard 10: General Business Risk**

*A PPS should identify, monitor and manage its general business risk and hold sufficient liquid net assets to cover potential general business losses so that it can continue operations and services as a going concern if those losses materialize. Further, liquid net assets should at all times be sufficient to ensure a recovery or orderly wind-down of critical operations and services.*

The board of directors-approved ERM Policy sets out the roles and responsibilities for risk management and governance. Payments Canada follows a lines-of-defense approach (for more information please see [Standard 3](#)). General business risk follows the structure instituted in the ERM Policy.

Payments Canada identifies and monitors its general business risks through various

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mechanisms including: the Enterprise Top & Emerging Risks, risk appetite metrics, Business Continuity and Disaster Recovery Program, and Security Program.

Since Payments Canada is not funded by equity, there is no requirement for Payments Canada to calculate the amount of liquid net assets funded by such equity to cover general business losses. To cover losses, Payments Canada has at its disposal the following funds to maintain financial and operational strength and viability in severe stress scenarios.

#### **General Reserve Fund:**

- This fund was established by the board of directors in 2004. In the first few years, amounts for reserve were included in its costs when establishing Payments Canada's operating and capital budgets. In addition, any fiscal year-end surplus is allocated to the general reserve.

#### **Restricted Reserve Funds:**

Payments Canada has established a reserve policy restricting a portion of the net assets. The level of the restricted balance is reviewed and adjusted annually by the Board of Directors.

- PFMI Reserve Fund: The purpose of the fund is to support continued operation and services of the ACSS and Lynx in the event that it incurs a general business loss. The fund was established to cover six months of operating costs in the event of a significant business interruption.
- Fee Stabilization Reserve Fund: The purpose of this reserve is to mitigate against the volatility of transactions by creating a stable source of funds that can easily be drawn upon, in the event there is a decline in the transaction fees collected from members.

The board of directors' Audit and Finance Committee reviews and recommends any changes to the reserve funds and how those funds will be raised (i.e., a one-time special assessment to members) or built up through regular contributions from members. These changes are approved by the board of directors. Payments Canada also purchased property and casualty insurance.

Payments Canada's investment policy sets out that liquidity and safety of principal are the key investment criteria for reserve funds. Payments Canada does not hold resources designated to cover the default of a member. Participants pledge collateral to the Bank of

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Canada to cover their default.

### **Standard 11: Custody and investment risks**

*A PPS should safeguard its own and its participants' assets and minimize the risk of loss on and delay in access to these assets. A PPS's investments should be in instruments with minimal credit, market and liquidity risks.*

Payments Canada holds its cash in a chartered Canadian bank that is regulated by the Office of the Superintendent of Financial Institutions (OSFI) and insured through the Canada Deposit Insurance Corporation (CDIC).

Payments Canada's investment policy ensures that Payments Canada's investment strategy is consistent with overall risk-management strategy and that liquidity of investments and safety of principal are adhered to. Payments Canada has adopted a very strict investment policy that limits its investment selection to Government of Canada Treasury Bills. The investment policy is reviewed on an annual basis by the Audit and Finance Committee and approved by the board of directors.

### **Standard 12: Operational risk**

*A PPS should identify the plausible sources of operational risk, both internal and external, and mitigate their impact through the use of appropriate systems, policies, procedures and controls. Systems should be designed to ensure a high degree of security and operational reliability and should have adequate, scalable capacity. Business-continuity management should aim for timely recovery of operations and fulfillment of the PPS's obligations, including in the event of a wide-scale or major disruption.*

Payments Canada employs a framework of policies and procedures for the ACSS, supported by the ACSS by-law and rules, which work to identify, manage and action the impact of operational risks. The framework, founded upon industry and cross-industry standards on security and risks, as well as Canadian and international standards and best practices, includes Payments Canada's ERM Policy, Operational Risk Management Policy

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ERM Framework, Risk Appetite Policy and an operational report provided to the Bank of Canada.

The Operational Risk Management Policy is developed in support of the ERM Policy and establishes additional expectations around identifying, monitoring and managing operational risk specifically to ensure people, processes, systems and information technology, policies and external risks are managed in a way that is consistent with Payments Canada's risk appetite, so that Payments Canada can provide safe, efficient and effective services to its participants, and other stakeholders.

The system design of ACSS incorporates various controls and clearly defines roles, procedures and incentives to manage and mitigate operational risks. This framework and its associated policies and procedures are reviewed and regularly tested through disaster recovery and business continuity exercises.

There are arrangements to ensure participants are aware of operational risks they might incur through participation in the system. In particular:

- ACSS Rule B9 - Manual Balancing for the Purpose of Settlement – this rule outlines procedures applicable in the event of a National Failure of the ACSS necessitating manual balancing for the purpose of settlement in all ACSS regions;
- Manual balancing tests for the ACSS are conducted four times per year;
- ACSS Rule J7 contains the procedures to be followed in a force majeure situation (e.g. an event beyond the control of an institution such as a natural disaster) and
- Specific contingency arrangements in place for disruptions of the Electronic Data Interchange (EDI) and the Automated Funds Transfers (AFT) systems.

Operational reliability is provided through the ACSS availability commitments imposed on Payments Canada and the technical competency and security requirements expected of participants. Security and reliability are provided by Payments Canada's maintenance of a secondary data centre for the ACSS, from which Payments Canada may resume operations within four hours in the event of a disruption at its primary data centre. Payments Canada's performance in meeting its operational objectives is assessed

annually in the corporate scorecard.

In 2020 Payments Canada re-platformed the ACSS application on new technology due to certain components of the existing ACSS application being end of life and therefore posing an operational risk to the system. The ACSS is now available to users via a web-based application and there is no longer a need for a client-based installation of the application. As a result of the new ACSS system, additional risk mitigation is in place, which includes automated vulnerability scanning, modernized technology and infrastructure to support operational resiliency, and enhanced security controls such as improved password requirements and multi-factor authentication.

### **Standard 13: Access and participation requirements**

*A PPS should have objective, risk-based and publicly disclosed criteria for participation that permit fair and open access.*

The ACSS by-law and rules, which are publicly disclosed, clearly set out the criteria for becoming a participant in the ACSS, as well as procedures for revocation of Direct Clearer status. The by-law is approved by the Minister of Finance.; Rules are approved by Payments Canada's Board of Directors and are subject to disallowance by the Minister of Finance. In addition, any new rules or changes to the rules or by-law must be reviewed by the Bank of Canada.

Access starts with the membership. All chartered banks operating in Canada, as well as the Bank of Canada, are required by legislation to be members of Payments Canada. Trust and loan companies, credit union centrals, and other deposit-taking institutions as well as life insurance companies, securities dealers, and money market mutual funds are eligible for membership if they meet requirements set out in the by-laws.

ACSS rules outline the requirements and obligations applicable to Direct Clearers, Clearing Agents and Indirect Clearers. To become a Direct Clearer in the ACSS, a Payments Canada member must be a deposit-taking institution or securities dealer and have a settlement account and standing loan facility at the Bank of Canada.<sup>[12]</sup>

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Payments Canada's Compliance Policy establishes the guiding principles and framework for Payments Canada's risk-based approach to compliance. The policy describes the two key components of the program, corporate and member compliance, and sets out the responsibilities of Payments Canada in relation to those areas. Since 2017, Payments Canada has been using a risk-based approach for compliance matters. The participation requirements are included in the list of ACSS high risk rules.

#### **Standard 14: Tiered participation arrangements**

*A PPS should identify, monitor and manage the material risks to the PPS arising from tiered participation arrangements.*

The ACSS by-law specifies the formally tiered structure for access to the ACSS; it establishes the participant status of Direct Clearers, Group Clearers, Indirect Clearers, members of a group and Clearing Agents.

Annually, Payments Canada gathers information on the volumes and values delivered and received by ACSS Indirect Clearers.<sup>[13]</sup> Upon receipt, the information is reviewed, and verified by the respective Clearing Agents. Using the information gathered, Payments Canada has designed key indicators to monitor various aspects of tiered participation risk to ACSS Direct Clearers, Clearing Agents, Indirect Clearers, and the system as a whole.

As part of the future retail batch system, Payments Canada will enhance the framework to identify, monitor and manage material risks arising from tiered participation arrangements, as well as the process to gather basic information on volume and value that will be required. Payments Canada will consider approaches that will meet the requirements in the most efficient and effective way possible.

#### **Standard 15: Efficiency and effectiveness**

*A PPS should be efficient and effective in meeting the requirements of its participants and the markets it serves, with a particular consideration for the interests of end-users*

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The ACSS model is designed to meet the needs of its participants: (i) ACSS application and rule changes are reviewed in conjunction with members and rule amendments are subject to Ministerial approval which ensures the changes are in line with Payments Canada public policy objectives; (ii) feedback on changes is sought and received from members through the Senior Operational Committee (SOC); (iii) the SAC is a forum for receiving feedback from stakeholders not represented in the aforementioned committees; and (iv) Payments Canada engages in public consultations for any large-scale changes (e.g. adoption of ISO 20022).

Payments Canada regularly gauges customer satisfaction in terms of effectiveness and efficiency by conducting member and stakeholder surveys, the results of which are shared with the board of directors. Payments Canada also completes a corporate scorecard, which provides a simple and effective evaluation of Payments Canada's operational efficiencies and organizational successes. The scorecard measures Payments Canada system availability rates, financial results, and progress on achieving strategic milestones. Operations reports and scorecard performance are reviewed quarterly by the Payments Canada board of directors, and the scorecard framework is reviewed annually.

### **Standard 16: Communication procedures and standards**

*A PPS should use communication procedures and standards that meet common industry practices and use or accommodate relevant internationally accepted communication procedures and standards to facilitate efficient payment clearing, settlement and recording.*

ACSS participants exchange information for clearing and settlement by manual entries in the ACSS application. Payment items are exchanged between participants in accordance with rules and standards established in the ACSS model. In February 2016, Payments Canada completed the multi-year development of new ISO 20022 payment messages, related rules and standards, and an adoption strategy for its participant financial institutions. The ACSS does not engage in cross-border operations. The ISO 20022 standard is currently available for selected payment streams and is not mandatory.

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## **Standard 17: Disclosure of rules, key procedures and market data**

*A PPS should have clear and comprehensive rules and procedures and should provide sufficient information to enable participants to have an accurate understanding of the risks, fees and other material costs they incur by participating in the PPS. All relevant rules and key procedures should be publicly disclosed.*

The ACSS is supported by a comprehensive framework of rules and procedures, supported by federal legislation, which are publicly available on [Payments Canada's website](#). All changes to rules and procedures are carried out in consultation with member committees and are subject to board of directors and government approval.

The operational and technical procedures are comprehensive and well documented and up-dated when changes affect the document. This includes the ACSS Service Level Description and the ACSS User Guide. There are arrangements to ensure participants are aware of operational risks they might incur through participation in the system.

Statistics on value and volume are available on the [Payments Canada website](#).

## **Standard 18: Recovery plans**

*A PPS is expected to identify scenarios that may potentially prevent it from being able to provide its critical operations and services as a going concern and assess the effectiveness of a full range of options for recovery or orderly wind-down. This entails preparing appropriate plans for its recovery or orderly wind-down based on the results of that assessment.*

Payments Canada's Financial Recovery Plan aims to extend and strengthen Payments Canada's ERM Framework by enhancing its resilience and strengthening confidence in Payments Canada's ability to function effectively even under severe financial stress scenarios. As the plan is an evolving document, it is reviewed and approved by the board on an annual basis.

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With continuous improvement in mind and on a yearly basis, the plan is tested to ensure Payments Canada's preparedness in the event of a financial stress event. The plan is updated to include the lessons learned from the exercise. The ultimate objective for recovery planning is to enable Payments Canada to continue provision of critical services when its viability as a going concern is threatened. Achieving this objective requires assessing and documenting recovery options, which would be available to Payments Canada in severe stress situations.

Payments Canada has at its disposal two reserve funds to cover losses: the general reserve fund and the restricted reserve fund to cover losses and maintain financial and operational strength and viability in severe stress scenarios. Payments Canada's legislative framework also delineates which recovery resources are available to Payments Canada to restore financial and operational strength and viability in severe stress scenarios. CPA Bylaw No. 2 – Finance (changes to budgets) establishes that Payments Canada has the ability to initiate a special dues assessment against the membership if additional funding is required. The process would take approximately two months.

The CP Act, Section 17, subject to by-laws, states that the board of directors may borrow money on the credit of Payments Canada; issue, reissue, sell or pledge debt obligations of Payments Canada; mortgage, pledge or otherwise create a security interest in all or any property of Payments Canada owned or subsequently acquired to secure any obligation of Payments Canada.

The affairs of Payments Canada may only be wound up by Parliament.

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## Appendix I: Acronyms

<b>ACSS</b>	Automated Clearing Settlement System
<b>AFT</b>	Automated Funds Transfers
<b>CDIC</b>	Canada Deposit Insurance Corporation
<b>CDS</b>	Canadian Depository for Securities
<b>CP Act</b>	Canadian Payments Act
<b>CPMI</b>	Committee on Payments and Market Infrastructures
<b>CSN</b>	CPA Services Network
<b>DNS</b>	Deferred Net Settlement
<b>EDI</b>	Electronic Data Interchange
<b>ELT</b>	Executive Leadership Team
<b>ERM</b>	Enterprise Risk Management
<b>FMI</b>	Financial Market Infrastructure
<b>HABS</b>	High-Availability Banking System

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<b>ICRM</b>	Interim Credit Risk Model
<b>IOSCO</b>	International Organization of Securities Commissions
<b>IRC</b>	Internal Risk Committee
<b>LVTS</b>	Large Value Transfer System
<b>MAC</b>	Member Advisory Council
<b>OSFI</b>	Office of the Superintendent of Financial Institutions
<b>PCSA</b>	Payments Clearing and Settlement Act
<b>PFMI</b>	Principle for Financial Market Infrastructure
<b>PPS</b>	Prominent Payments System
<b>SAC</b>	Stakeholder Advisory Council
<b>SWIFT</b>	Worldwide Interbank Financial Telecommunication
<b>USBE</b>	US Dollar Bulk Exchange

## Appendix II: List of publicly available resources

### Payments Canada General Information

Governance	:	<a href="https://www.payments.ca/about-us/governance-risk">https://www.payments.ca/about-us/governance-risk</a>
Member Advisory Council	:	<a href="https://www.payments.ca/about-us/how-we-collaborate/member-advisory-council">https://www.payments.ca/about-us/how-we-collaborate/member-advisory-council</a>
Stakeholder Advisory Council	:	<a href="https://www.payments.ca/about-us/how-we-collaborate/stakeholder-advisory-council">https://www.payments.ca/about-us/how-we-collaborate/stakeholder-advisory-council</a>
Payments Canada Clearing and Settlement Systems	:	<a href="https://www.payments.ca/about-us/our-systems-and-Rules">https://www.payments.ca/about-us/our-systems-and-Rules</a>
Membership	:	<a href="https://payments.ca/about/our-members-stakeholders/members">https://payments.ca/about/our-members-stakeholders/members</a>

### Payments Canada Modernization

General information	:	<a href="https://payments.ca/insights/modernization">https://payments.ca/insights/modernization</a>
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### Acts and bylaws

Canadian Payments Act	:	<a href="http://laws.justice.gc.ca/eng/acts/C-21/page-1.html">http://laws.justice.gc.ca/eng/acts/C-21/page-1.html</a>
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Automated Clearing Settlement System (ACSS) rules	:	<a href="https://payments.ca/systems-services/rules-documentation?field_rules_type=1&amp;field_category_type=All">https://payments.ca/systems-services/rules-documentation?field_rules_type=1&amp;field_category_type=All</a>
Payments Canada Membership Requirements Regulations	:	<a href="http://laws.justice.gc.ca/eng/regulations/SOR-2001-476/index.html">http://laws.justice.gc.ca/eng/regulations/SOR-2001-476/index.html</a>
CPA By-law No. 1 - General by-law	:	<a href="https://laws-lois.justice.gc.ca/eng/regulations/SOR-2017-1/FullText.html">https://laws-lois.justice.gc.ca/eng/regulations/SOR-2017-1/FullText.html</a>
CPA By-law No. 2 - Finance	:	<a href="https://laws-lois.justice.gc.ca/eng/regulations/SOR-2016-283/index.html175/index.html">https://laws-lois.justice.gc.ca/eng/regulations/SOR-2016-283/index.html175/index.html</a>
CPA By-law No. 3 - Payment Items and ACSS	:	<a href="https://laws-lois.justice.gc.ca/eng/regulations/SOR-2003-346/index.html">https://laws-lois.justice.gc.ca/eng/regulations/SOR-2003-346/index.html</a>
CPA By-law No. 6 - Compliance	:	<a href="https://laws.justice.gc.ca/eng/regulations/SOR-2003-347/index.html">https://laws.justice.gc.ca/eng/regulations/SOR-2003-347/index.html</a>
CPA By-law No. 7 - Respecting the Large Value Transfer System	:	<a href="https://laws.justice.gc.ca/eng/regulations/SOR-2001-281/index.html">https://laws.justice.gc.ca/eng/regulations/SOR-2001-281/index.html</a>
CPA By-law No. 8 - Administration	:	<a href="https://payments.ca/sites/default/files/By-law_No8_Administration_December8_2022_En.pdf">https://payments.ca/sites/default/files/By-law_No8_Administration_December8_2022_En.pdf</a>

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## Statistics

Automated Clearing Settlement System : <https://payments.ca/insights/research/automated-clearing-settlement-system-acss-statistics>

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[1] Payments Canada is the operating brand name of the Canadian Payments Association (CPA). For legal purposes we continue to use CPA (or the Association) in all information related to rules, by-laws, standards and various other instances

[2] Settlement of USBE balances is done through banks in New York.

[3] Available at: <http://www.bankofcanada.ca/wp-content/uploads/2016/02/criteria-risk-management-standards.pdf>

[4] CPMI-IOSCO: Committee on Payment and Settlement Systems - International Organization of Securities Commissions

[5] Available at: <http://www.bis.org/cpmi/publ/d101a.pdf>

[6] The ACSS is a "debit pull" system whereby the direct clearer that is owed funds enters the data in the ACSS.

[7] The ACSS is a "deferred net settlement system" since final settlements occur between direct clearers at the end of a predefined settlement cycle after the net obligations between direct clearers are calculated.

[8] In accordance with Rules E1 and E4, a direct clearer can act as a settlement intermediary. As such, the clearing agent or group clearer facilitates settlement between the delivering and receiving direct clearer involve in a Point-of-Service Payment.

[9] In reference to the members of the group, the group clearer is not a clearing agent. A group clearer may act as a clearing agent with entities that do not belong to the group.

[10] Annual statics on payment items exchanged between directly clearing financial institutions through the ACSS are available at: <https://www.payments.ca/about-us/our-systems-and-rules/retail-system/statistics>

[11] COSO: Committee of Sponsoring Organizations of the Treadway Commission

[12] On August 5, 2020, the 0.5 per cent volume requirements to be a direct clearer were removed from our ACSS by-law No. 3 allowing for a wider range of members to be eligible to become direct clearers/group clearers and make payment entries directly into the ACSS.

[13] Before January 2019, only data on volume were available.