

CRRBC
WEBINAR SERIES



Delivering a **safer** **internet** at home

Canadian Shield ISP Security Partnership



Today's **session**

- CIRA and its Net Good program
- Canadian Shield - DNS level protection
- How Canadian Shield works to detect and block threats
- Canadian Shield ISP Partnership
 - Benefits
 - Configuration
 - Stats
- More CIRA products and services



About CIRA

Canadian not-for-profit founded in 1998

Mission

As champions of the internet, CIRA **connects, protects and engages** the internet community in Canada and beyond.

Vision

A free and open internet that is **a force for good in the world** and empowers everyone to achieve their economic, social and cultural potential.



.CA



CYBERSECURITY



REGISTRY



NET GOOD

- Supports **projects, initiatives and policies** that make Canada's internet **better, safer, stronger**
- Advocate for **digital sovereignty**
- Three focal points: **infrastructure, online safety** and **policy engagement**
- Programs and initiatives
 - Canadian Shield
 - Internet Performance Test
 - Grants
 - CIGF





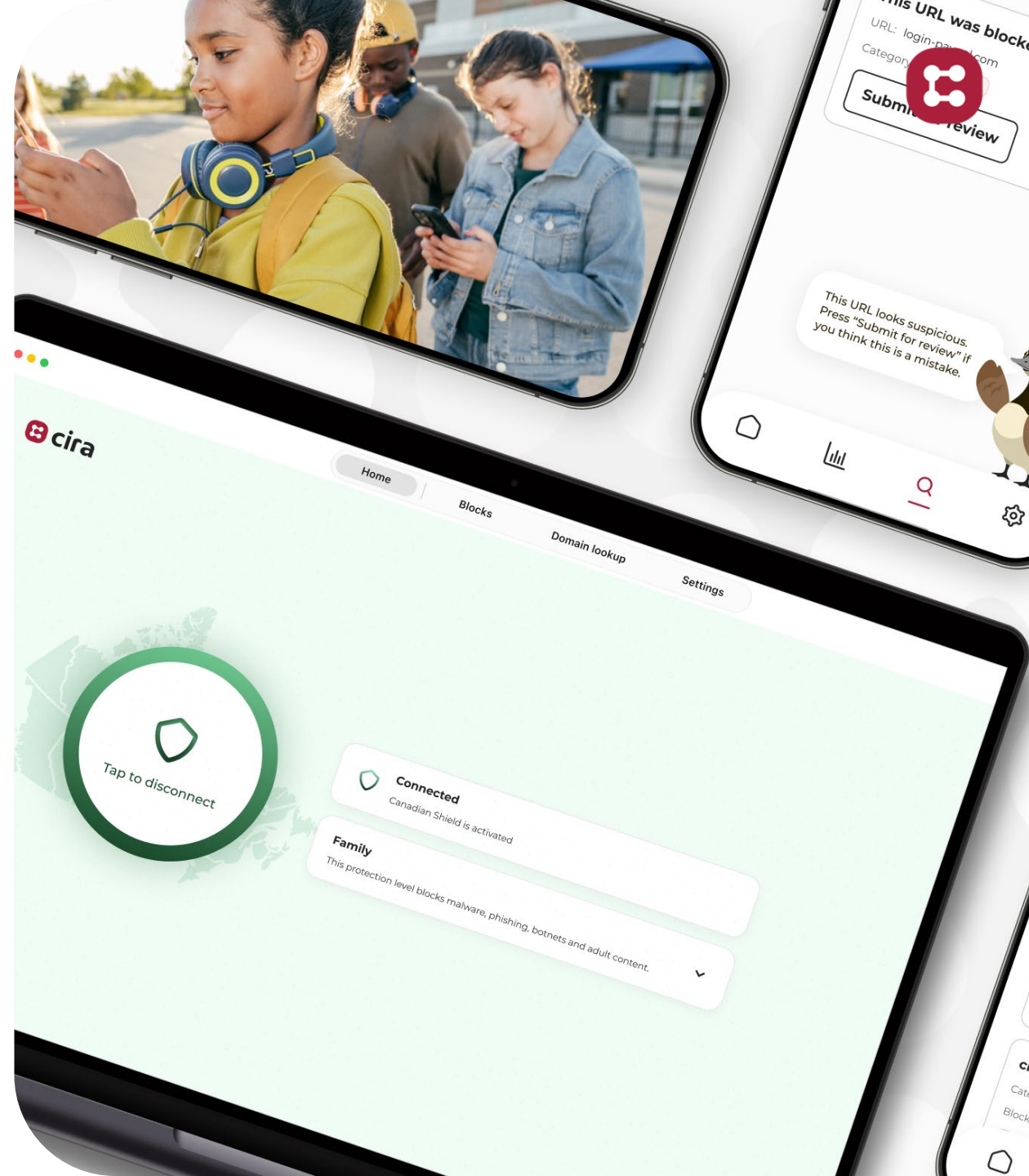
Why we created **Canadian Shield**

- **April 2020 — Life moved online**
- As COVID-19 spread rapidly, Canadians were suddenly working, learning and connecting from home.
- **But cybersecurity protections hadn't kept pace**
- CIRA already protected large institutions — but not individual Canadians and families.
- **So, we brought that protection to everyone**
- A free service for personal devices and home networks, whether for a student using their phone, a grandparent on their iPad or a family using a home computer.
- **By December 2020, we had over 100,000 users.**

A free Canadian solution **for everyone**

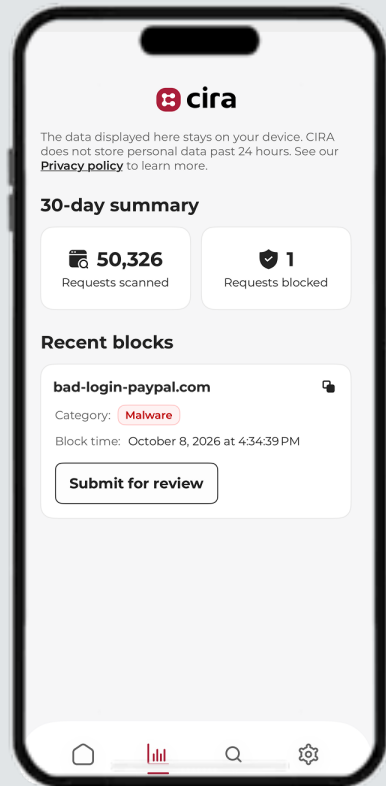
- Privacy-first DNS protection
- Blocks malware, phishing, scams and botnets
- No ads, no tracking, no user profiling
- Data stays in Canada
- Privacy is never compromised
- 100% Canadian infrastructure
- 5+ years of protecting Canadians online

[CIRA.CA/SHIELD](https://cira.ca/shield)





Give your customers a **safer internet** *at home*



Canadian Shield for independent ISPs

- DNS-level protection for residential networks
- Blocks domains associated with malware, phishing and botnets
- Delivered through the ISP network
- Protection is applied automatically
- No endpoint software or additional hardware



What you get with **Canadian Shield**

A practical way to help **protect**
the communities you already **connect**



Deliver protection at
the network level —
no customer setup
required



Add value to your
service without
building a new
cybersecurity
product



Build customer trust
with a privacy-first,
not-for-profit
Canadian partner



Support rural and
remote users who
may have fewer
cybersecurity
options



3.91 B+

threats blocked last year

100%

guaranteed uptime

3.72 million

users protected
by CIRA Canadian Shield

Protection grows stronger with every user



How Canadian Shield works

- DNS requests routed through protected resolvers
- Domains checked against threat intelligence
- Malicious domains blocked before connection
- Applied network-wide across all subscribers, without user action
- Legitimate requests continue normally



SECURITY

Threat feeds

Canadian Shield combines threat intelligence and continually updated blocklists so it can identify domains associated with known threats.

Canadian Centre for Cyber Security

VirusTotal

Cybertip.ca





Simple **network-level** deployment

1

Confirm deployment approach

Network-level DNS for residential subscribers

2

Configure default DNS resolvers

Route residential DNS requests through Canadian Shield

3

Test and validate

Confirm resolution, blocking behaviour and customer experience

4

Launch with support path

CIRA support, false-positive reporting and escalation process

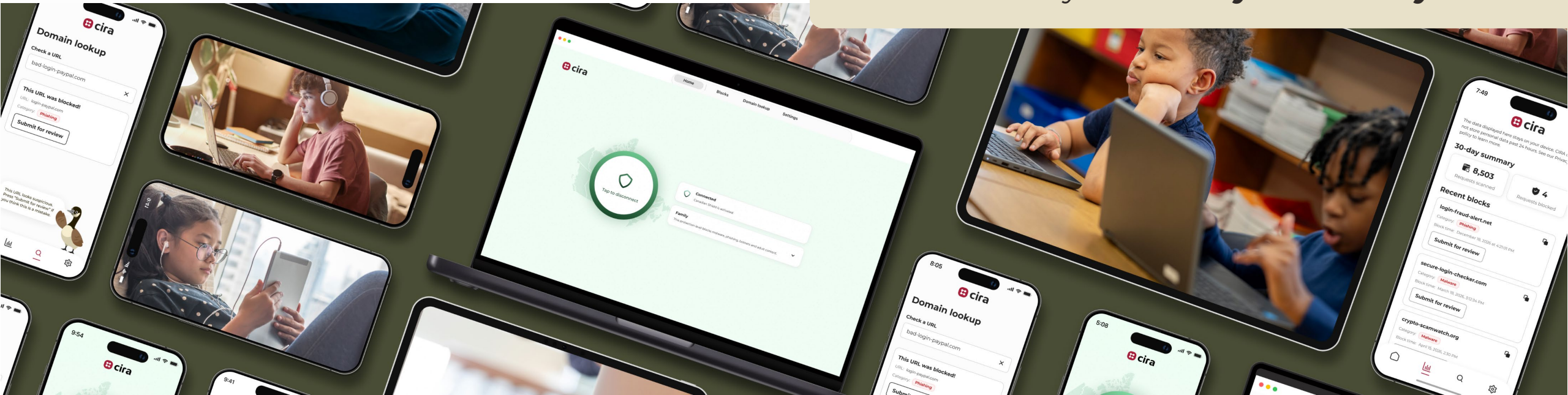
No endpoint software. No customer hardware. Uses infrastructure the ISP already operates.



Stay protected at home, at work and on the go

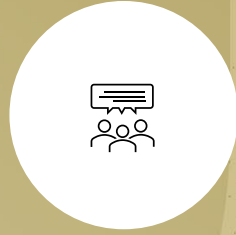
- **Mobile** phones, iPads, tablets
(iOS and Android apps)
- **Laptop** and desktop
(macOS and Windows)
- **Browser extension**
(Firefox, Chrome, Edge)
- **Home router**

...and now via your **friendly community ISP!**

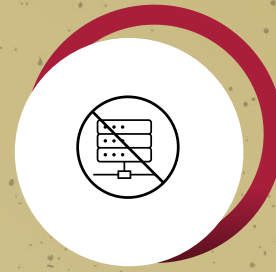




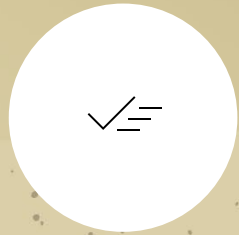
Highly reliable
resolver



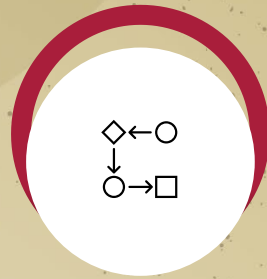
ISP retains customer
relationship and
network control



CIRA limits data
collection and does not
monetize user data



Super-simple
onboarding



False-positive reporting
and escalation process
in place



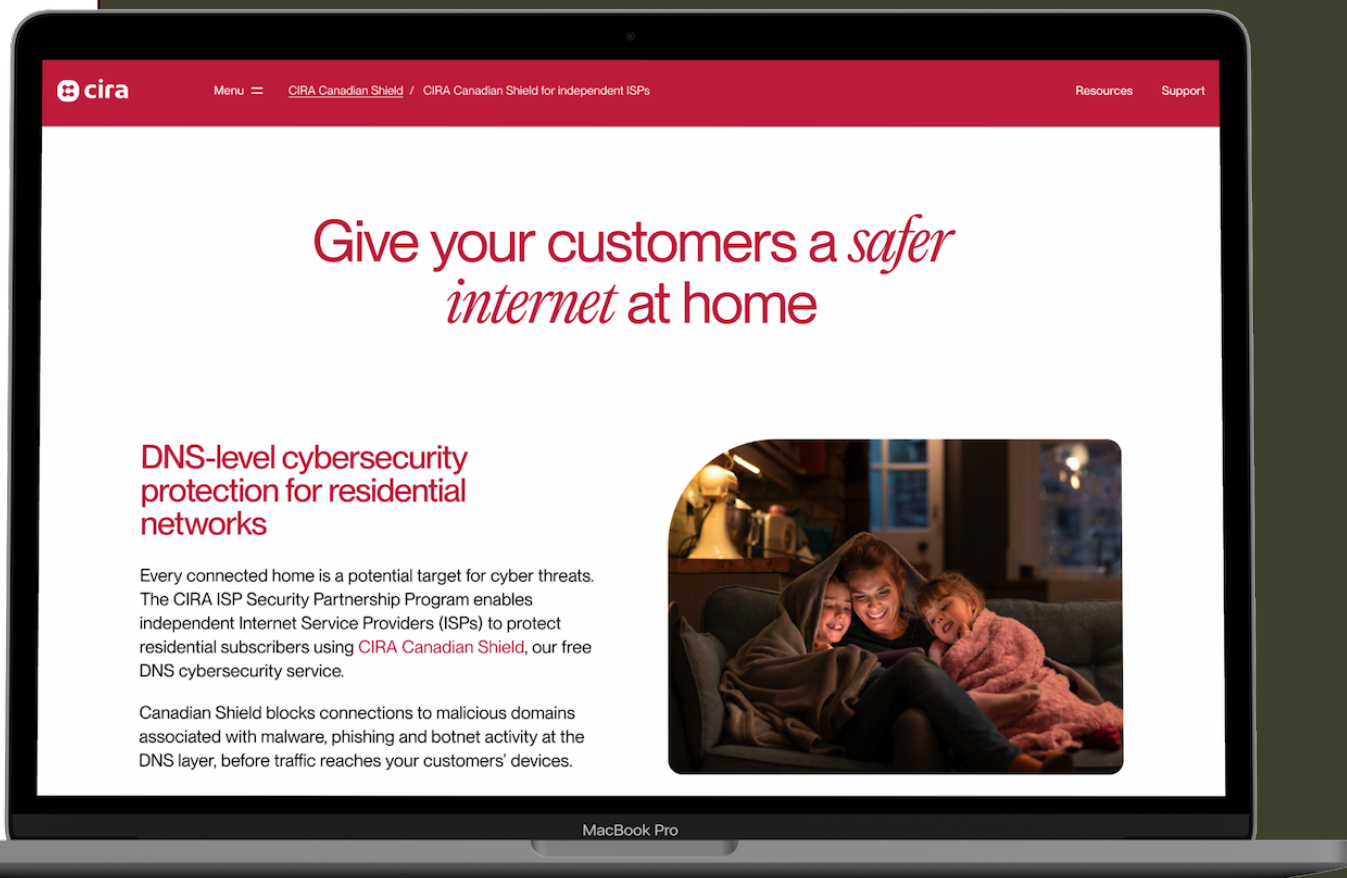
DNS configuration
only, no endpoint
hardware necessary

What you
want to
know
before
**enabling
Canadian
Shield**



Join the program
and give your
customers a **safer
internet at home!**

CIRA.CA/CISPP





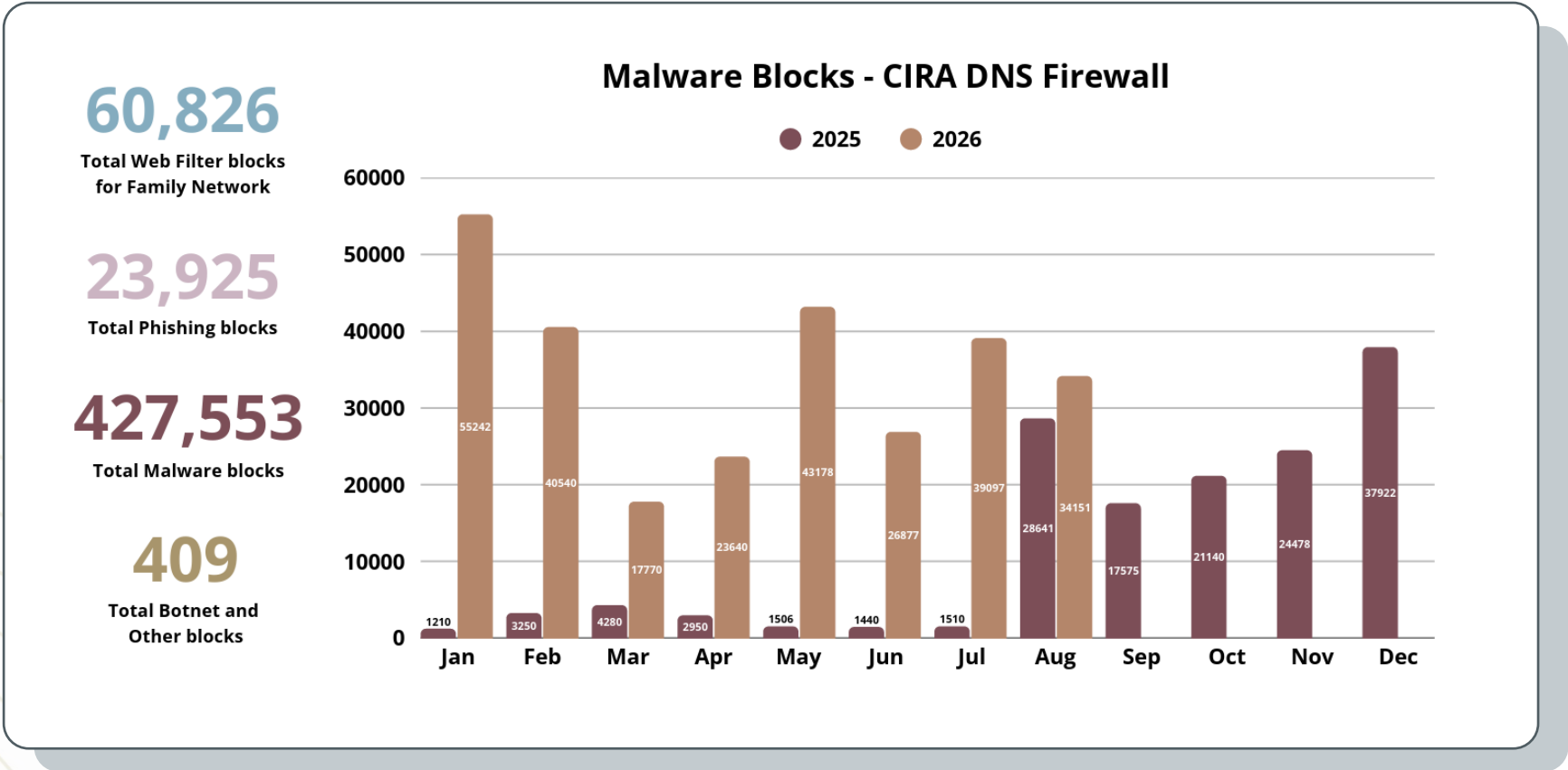
"We started using CIRA's Canadian Shield as our default network connection through our CommuniFi project 18 months ago. And Frankly, we were staggered by the results. Not only do we know that it works and works well to block bad traffic, but we saw how valuable and necessary it is as a tool. **We recommend it to every ISP network.**"

Shelley Robinson
Executive Director
National Capital FreeNet



Canadian Shield **protecting CommuniFi**

Since the CommuniFi network launched in December 2024, we have connected almost 6,300 unique devices. In that same time, **Canadian Shield blocked more than 450,000 online threats.**





Questions?



Internet Performance Test

Real-world data on how Canadians experience the internet.

- Consumer-generated insights
- Valuable for communities, researchers, governments and ISPs
- Helps identify gaps and opportunities

Net Good Grants

Supporting community-led projects across Canada.

- Connectivity and digital inclusion
- Online safety
- Policy and internet governance

Net Good Grants: infrastructure

- Building a solar-powered radio tower to connect a remote BC region to Wi-Fi and cellular service.
- Development of comprehensive technical and financial planning package to support the deployment of a community-owned fiber network.
- Technical audit of a community owned cable network and develop a roadmap for future broadband mobilization.





MORE THAN RESIDENTIAL PROTECTION!

Internet Performance Test (IPT)

- Off-network test from device to edge of the internet.
- For ISPs: provides neutral data to validate service, spot gaps and show improvements over time.
- A shared resource that helps providers and communities address service gaps together.
- Easily mapped to support business decisions



Together, we can make the
Canadian internet safer for
every household.

Thank you.

[CIRA.CA/CISPP](https://cira.ca/cispp)



CIRA.CA



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LINKEDIN /company/canadian-internet-registration-authority



The Infinite Build

Western Conference & Expo

Nov 2 - 3, 2026

Delta Saskatoon Downtown, SK.

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