Cybera Membership

Digital Resources for Alberta's Public & Education Sectors

cybera

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Ensuring a connected, secure, and equitable digital future for every Albertan.

About Cybera

Since it was established in 1994, Cybera's core role has been to oversee the development and operations of Alberta's Research and Education Network. This is the dedicated network for the province's unmetered, not-for-profit internet traffic, and has become vital infrastructure for schools, post-secondary institutions, municipalities, libraries, and research institutions.

Cybera also leads above-the-network projects that improve the lives of Albertans through the advancement of technology, digital literacy, and best practices.

Our mission is to connect Alberta to the world, enabling and advocating for better services, collaborations, and skills growth through the use of digital technology.

Our vision is to ensure a connected, secure, and equitable digital future for every Albertan.

Membership Overview

Schools, libraries, research facilities, public institutions, and business incubators are welcome to join Cybera to benefit from its many networking and above-the-network services.

Membership falls into two categories: those who are connected to Cybera's network, and those who are not connected but have joined to access Cybera's other services. For a breakdown of the cost of membership, see the Frequently Asked Questions on page 21.

To become a member, or for more information on the services in this booklet, please contact membership@cybera.ca.

For more contact information please see page 23.

What comes with your membership	Connected K-12	Connected Post-Secondary	Connected Library / Gov't / Non-profit	Non-Connected Member
High-bandwidth access to the National Research and Education Network	●	●	●	
Free IPv6 traffic	●	●	●	
Support with accessing CANARIE funding programs for research and networking infrastructure		●		
Access to the Canadian Access Federation to obtain Federated Identity Management and eduroam		●	●	
Access to the Rapid Access Cloud for testing, research, and classroom learning / projects	●	●	●	●
Protection of Domain Name System using D-Zone Anycast (in partnership with CIRA)	●	●	●	●
Access to data science training, consultations, and tools, such as Jupyter	●	●	●	●
Access to technology-neutral advice on networking, data privacy management, cyber security, shared IT procurement, and policy	●	●	●	●
Propose and participate in technology pilots	●	●	●	●
Discounted access to the Cyber Summit	●	●	●	●
Be part of a community that advocates for open data, shared services, efficient internet, and network expansions	●	●	●	●

Add-On Services	Connected K-12	Connected Post-Secondary	Connected Library / Gov't / Non-profit	Non-Connected Member
Access to ShareIT (Alberta's program for shared IT hardware and software procurement, knowledge transfer, and skills building)	●	●		● *
Access to the Internet Buying Group for low-cost internet	●	●	●	
Direct peering to major content providers, removing up to 50% of traffic from commercial internet	●	●	●	
Virtual Firewall Service (a virtual service that does away with the need for physical firewall hardware)	●	●	●	
Threat Feed for Education (a threat intelligence feed platform)	●	●		
Miridor intrusion detection service (provides a simple but detailed overview of potential indicators of compromise)	●	●	●	
Cybera Security Nexus (offers assessments, templates, and guidance on entire cybersecurity operations)	●	●	●	●
CANARIE Cybersecurity Initiatives Program (offers eligible institutions funded security initiatives, including threat detection, D-Zone DNS Firewall, threat feeds, benchmarking, etc)		●		

Available to non-connected education members only.

Connect

OFFERING HIGH-SPEED BANDWIDTH FOR ALBERTA'S PUBLIC SECTORS

The network is at the heart of what we do. Cybera connects Alberta researchers, innovators, and educators to national and global tools, colleagues, and classrooms through a dedicated, high-capacity, high-speed network.
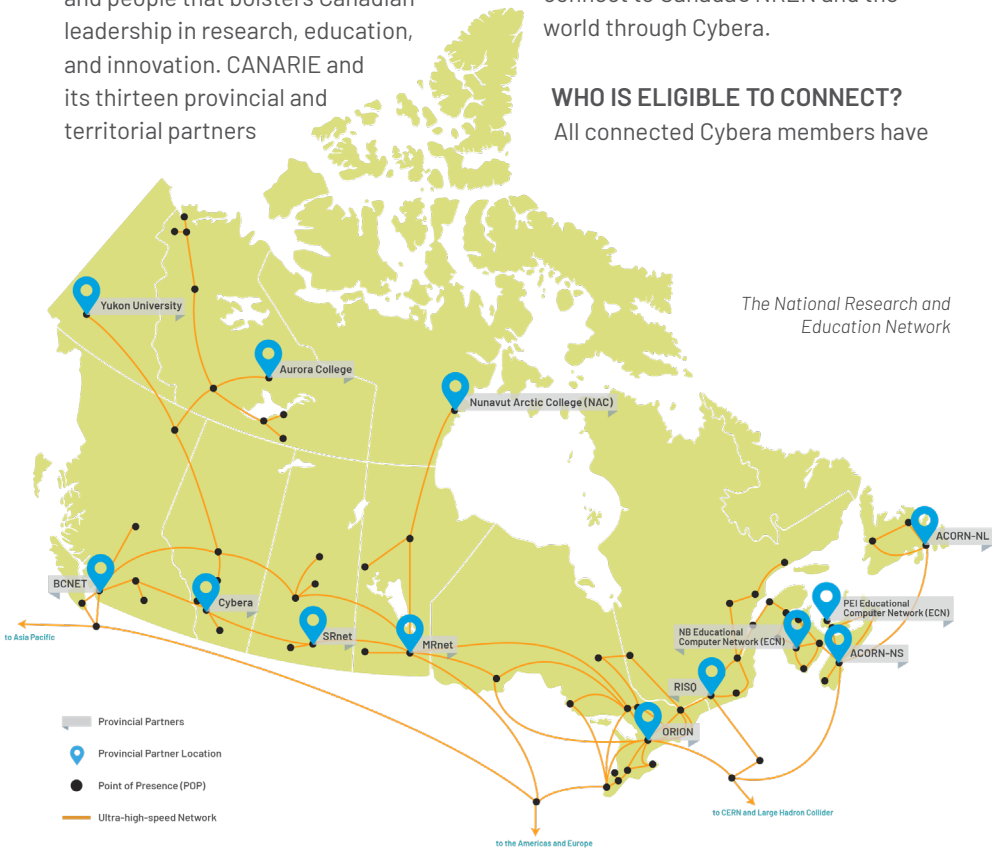
CYBERANET: ALBERTA'S RESEARCH & EDUCATION NETWORK

The National Research and Education Network (NREN) is an essential collective of infrastructure, tools, and people that bolsters Canadian leadership in research, education, and innovation. CANARIE and its thirteen provincial and territorial partners

form Canada's NREN. We connect Canada's researchers, educators, and innovators to each other and to data, technology, and colleagues around the world.

In Alberta, +744,000 students, educators, researchers, and innovators connect to Canada's NREN and the world through Cybera.

WHO IS ELIGIBLE TO CONNECT?

All connected Cybera members have

The National Research and Education Network

Yukon University
Aurora College
Nunavut Arctic College (NAC)
BCNET
to Asia Pacific
Cybera
SRnet
MRnet
ACORN-NL
PEI Educational Computer Network (ECN)
NB Educational Computer Network (ECN)
ACORN-NS
RISQ
ORION
to CERN and Large Hadron Collider
to the Americas and Europe

Provincial Partners
Provincial Partner Location
Point of Presence (POP)
Ultra-high-speed Network

access to the NREN. This network is designed to support innovation and can be used for non-commercial traffic, including direct connections to other Cybera members.

REQUIREMENTS TO CONNECT
A physical network connection to CyberaNet is required.

To learn more about CyberaNet and the NREN, visit: Cybera.ca/cyberanet.

For more information on how to join, contact: network@cybera.ca.

PEERING SERVICE
Cybera offers members direct connections to major content providers such as Google and YouTube.

MEMBER BENEFITS
- Members divert, on average, 50% of their commercial internet traffic, creating major internet savings.
  - These cost-savings increase as more content providers peer with Cybera.
- Web content loads faster, even during peak times.

MEMBERSHIP REQUIREMENTS
Access to the Peering service is available to all connected Cybera members.

REQUIREMENTS TO CONNECT*
To connect to Peering, the member institution must have:
- A physical network connection to

Cybera's network.
- Its own public IP address.
- Multi-homing** capabilities: Participating members need to connect to both Cybera as well as their commercial Internet Service Provider. This requires networking equipment that supports Border Gateway Protocol (BGP), as well as an Autonomous System Number (ASN).

*Cybera is able to provide technical assistance with this process.

**Note: This requirement does not apply to members who are in the Internet Buying Group.

CONTENT PROVIDERS WE PEER WITH

Altopia®
and Alt.net

GitHub

amazon

Google
Canada

box

Limelight
NETWORKS

cisco Webex

Microsoft

D2L

SOFTLAYER
an IBM Company

facebook

YAHOO!

You can view the full list of providers the NREN connects to, including Internet Exchange Points, by visiting Canarie.ca/network/services/cds.

PEERING SERVICE ADMINISTRATIVE FEE

This fee is based on the number of full-time equivalent (FTE) students or employees within the organization:

Size of Organization	Cost
Less than 1,000 FTE	$50/month
1,001 - 10,000 FTE	$100/month
More than 10,000 FTE	$500/month

To learn more, visit: Cybera.ca/peering-ibg.

To get started, contact: network@cybera.ca.

INTERNET BUYING GROUP

By pooling members' internet traffic, Cybera negotiates a bulk bandwidth rate from a commercial Internet Service Provider to provide members with high-speed internet services at a reduced cost.

MEMBER BENEFITS

- Members are only charged a metered ($/Mbps) rate for the Internet Buying Group's transit internet.
  - Peering service traffic (which is automatically included in the Internet Buying Group) is unmetered and charged separately under one flat administrative fee.

- Free IPv6 internet traffic (network permitting).
- Members have reported dramatic cost savings.
- It is a month-to-month service, with no long-term contract or commitment.

MEMBERSHIP REQUIREMENTS

Access to the Internet Buying Group is available to all connected Cybera members.

COST

Visit Cybera.ca/ibg-cost to view the current price for bandwidth.

Note: Internet Buying Group members are also subject to the Peering Service administrative fee.

REQUIREMENTS TO CONNECT*

To connect to the Internet Buying Group, the member institution must have:

- A physical network connection to CyberaNet.
- Its own public IP address.

Cybera is able to provide technical assistance with this process.

To learn more, visit: Cybera.ca/peering-ibg.

To get started, contact: network@cybera.ca.

Skills

BUILDING TALENT AND TECHNICAL KNOW-HOW

To address the increasing gaps in Alberta's technical fields (and help transition the province to a more diversified economy), Cybera is supporting technical skills and digital literacy learning.

CLOUD SERVICES

Cybera houses some of the top cloud experts in Canada. They operate and support two cloud resources that can be used to trial new ideas at the business level, or learn to use cloud tools in a testbed environment.

To learn more, visit: Cybera.ca/cloud.

For additional questions, contact: projects@cybera.ca.

RAPID ACCESS CLOUD

Cybera's Rapid Access Cloud provides free cloud computing resources to innovators, researchers, not-for-profit organizations, students and educators. It has become a popular tool for classrooms to learn about cloud security as well as AI / machine learning / data processing systems and environments. Albertans can begin using the Rapid Access Cloud by visiting: Rac-portal.cybera.ca.

To learn more, visit: Cybera.ca/RAC.

For additional questions, contact: rac-admin@cybera.ca.

DAIR

Since 2011, Cybera has partnered with CANARIE to manage the cloud infrastructure for its DAIR program. Small-to-medium sized enterprises are eligible to receive free cloud resources to test, validate, and prove their product or service ideas. DAIR users can also access BoosterPacks (canarie.ca/cloud/boosterpacks), which offer tools and resources on emerging technologies. Canadian businesses can access the DAIR program by visiting: Canarie.ca/cloud.

DATA SCIENCE SERVICES

Cybera's Data Science team is working with the public and private sectors to accelerate the learning and adoption of data science practices through:

- Collaborating on data science projects.
- Providing access to, and training for, open-source data science tools.
- Advising on how to begin a data science project.

Organizations looking to gain insights from their data to drive new efficiencies and decision-making are welcome to contact Cybera's data science team at: datascience@cybera.ca.

To learn more, visit: Cybera.ca/data-science.

APPLIED DATA SCIENCE LAB FOR ECONOMIC DEVELOPMENT

Through this work-integrated learning program, emerging data scientists are paired with local businesses to carry out a long-term data science / machine learning project. Cybera and its sector partners provide hands-on advice and expertise to help the projects succeed.

To learn more, visit: Cybera.ca/adsl.

For additional questions, contact: datascience@cybera.ca.

CALLYSTO

Cybera is bringing data science and digital literacy skills into Canadian classrooms using Callysto, a free, open-source online learning tool. The goal is to provide training and resources that will prepare Grades 5-12 students — and teachers — for the in-demand skills of tomorrow, including coding and data analysis. Working with teachers, Cybera and the Pacific Institute for the Mathematical Sciences are building learning resources that align with existing school curricula, across all subject areas.

To learn more, visit: Callysto.ca.

For additional questions, contact: contact@callysto.ca.

JUPYTER 'ALL-IN-ONE' SCIENCE PLATFORM

Jupyter incorporates math, science and engineering tools, along with communication and visualization resources, in one web-based platform. Cybera and the Pacific Institute for the Mathematical Sciences are working to increase the awareness and use of Jupyter. Cybera is hosting the platform on its cloud, and offers free access (and advice on how to get started) to Canadians looking to trial this technology. To trial Jupyter, visit: Cybera.syzygy.ca.

For additional questions, contact: datascience@cybera.ca.

SUPPORTING ADOPTION OF NEW TECHNOLOGIES

Our tech-neutral expertise in cloud, networking, data science, cybersecurity, IT procurement, and policy is available to our stakeholder communities through workshops or one-on-one advisory sessions. Contact info@cybera.ca for more information on how we can support you with our expertise.

Collaboration

COLLABORATING ON SHARED IT SERVICES

Shared services are used by Cybera's members to adopt, build, and work together on IT tools and software. These initiatives, in turn, reduce costs and streamline the delivery of services.

ALBERTA SHAREIT PROGRAM

The Alberta ShareIT Program is managed by Cybera, and led by the province's post-secondary education sector. It leverages economies of scope and scale to give members access to a broader, more powerful, and more cost-effective suite of IT hardware software, hardware, and services. It also offers valuable knowledge transfer and skill-building opportunities.

For more information, visit: Cybera.ca/shareit.

For additional questions, or to get started contact: shareit@cybera.ca.

PROCUREMENT

ShareIT's procurement program was formed by Alberta's post-secondary institutions in 2017 to pool their hardware and software purchasing needs, and is now also available to K–12 school districts in Alberta. It also offers members access to procurements negotiated by the National Research & Education Network.

By using ShareIT's procurement services, educators can expand the services they offer, while sharing best practices with other members. Since its launch, ShareIT has saved member institutions millions of dollars in IT costs, resources, and time spent on procurement.

To view ShareIT's catalogue of offerings, visit: Cybera.ca/shareit-procurement.

PROFESSIONAL DEVELOPMENT

ShareIT hosts dozens of professional development and training opportunities each year through webinars and workshops. Topics are determined by requests from the membership and can be delivered in-person or online.

ShareIT can offer discounted pricing for workshops, webinars, and certification courses.

To view upcoming training opportunities, or to suggest a topic, visit: Cybera.ca/shareit-pdt.

BEST PRACTICE SHARING

The ShareIT platform centralizes collaboration and knowledge- sharing opportunities for post-secondary IT departments, from senior leaders to subject matter experts.

Its data repository and communication forums provide an open environment

for members to network across the province, and learn best practices to take back to their institutions.

Want to get involved? Contact shareit@cybera.ca.

AB SECUREIT

Alberta's 26 post-secondary institutions are collectively sharing information and strategies to enhance security and privacy. Facilitated by Cybera, the goals of AB SecureIT are to:

- Position Alberta PSIs to make use of federal funding opportunities.
- Leverage existing expertise and security teams within our institutions.
- Coordinate and align with the provincial Chief Information Security Office (CISO) and cybersecurity roadmaps for the public sector.
- Identify and prioritize shared security opportunities to reduce costs and achieve economies of scale.
- Improve security talent in the province.

To learn more, visit: Cybera.ca/ab-secureit.

Want to get involved? Contact projects@cybera.ca.

CANADIAN ACCESS FEDERATION — FEDERATED IDENTITY MANAGEMENT SERVICE

The Canadian Access Federation (CAF) is the trust framework for managing digital identities in higher education and research. Cybera works with its national partner, CANARIE, to connect Alberta's students, researchers, and faculty to CAF resources.

Participating institutions trust CANARIE to authenticate the digital identities of staff and students from their organizations. CANARIE also manages access to the eduroam Wi-Fi service and to academic applications, resources, and tools across Canada and around the world.

Institutions looking to set up Federated Identity Management or eduroam must first join this federation.* To learn more, visit: Canarie.ca/identity/caf/join.

Want to get connected to CAF? Contact projects@cybera.ca.

Cybera is also able to provide technical assistance.

FEDERATED IDENTITY MANAGEMENT

Federated Identity Management makes it possible for students and researchers to use their home institution's login credentials to securely connect to more than 2,900 global services, resources, and scientific facilities. Through this national identity federation, post-secondary staff and

students can use their academic credentials to securely access resources that are restricted to the research and education community. To get started, your institution simply needs to become a member of CAF.

To learn more, visit: Canarie.ca/identity/fim.

EDUROAM

Education roaming (eduroam) is a secure, world-wide roaming internet access service. Students, researchers, and staff from participating post-secondary institutions can automatically achieve internet connectivity when visiting other participating institutions by simply opening their laptop. The eduroam service is available across Canada and in 106 countries around the world. Cybera is able to provide technical assistance to members looking to set up eduroam.

To learn more, visit: Canarie.ca/identity/eduroam.

For more information on all the Shared Services that Cybera provides, visit: cybera.ca/shared-services.

Advocacy

SEEKING UNIVERSAL ACCESS TO TECHNOLOGY

Cybera is advocating for reliable and equitable internet access, improved oversights for digital privacy and security, and ways to address skilled labour shortages. Teaming up with government, education, and the private sector, Cybera is creating a community that is working to reduce the digital divide across the country.

ADVOCACY

As well as intervening on telecommunications issues at a federal level, Cybera's policy team also meets regularly with the Government of Alberta to advise on plans for provincial digital infrastructure.

Other examples of Cybera's advocacy efforts include:

- Advising communities on building broadband policy frameworks.
- Giving presentations across Canada on the importance of digital technologies in innovation, education, and the economy.
- Coordinating with CANARIE and our National Research and Education Network partners to build new research, innovation, and networking tools.
- Championing shared services, network expansions, IPv6, and internet efficiencies at a local and international level.
- Producing reports on the state of digital infrastructure in Alberta.

- Participating in international coalitions on internet governance.

To learn more about our advocacy efforts, visit: Cybera.ca/advocacy.

If you would like to participate in Cybera's advocacy efforts, or are aware of a digital accessibility issue that you would like Cybera to help address, contact: policy@cybera.ca.

ALBERTA RURAL CONNECTIVITY COALITION

Cybera is a founding member of the Alberta Rural Connectivity Coalition (ARCC), launched in 2021. This coalition of individuals and public-sector organizations is advocating for universal access to high-speed internet at affordable rates for all Albertans, including those living in rural, remote, First Nations and Metis Settlements communities.

As well as advocacy and training efforts, the Coalition hosts an annual Alberta Rural Connectivity Forum. The goal of this two-day event is to

bring community leaders, technology providers, and broadband and digital inclusion advocates together to discuss policy, regulatory, and technical barriers that impede broadband deployment, and how to bridge them.

To learn more about ARCC, visit: ABconnectivity.ca.

For additional questions, contact: info@abconnectivity.ca.

CYBER SUMMIT

Each year, Cybera organizes a Cyber Summit for the digital leaders in Alberta's public, education, research and start-up sectors. Since 2015, we have teamed up with our sister networks in Saskatchewan and Manitoba, SRNet and MRnet, to host this event. Our goal is to inspire more Canadians to make the most of technological innovations and collaborations, for the economic benefit of all.

In recent years, the Summit has covered timely issues and new tools to transform Western Canada's digital economy, including:

- Open data and open research
- Cybersecurity
- The state of internet regulations
- Data science for public good
- Ethical considerations of new technologies
- Tackling the digital divide
- Open-source and accessible technologies

The Summit has become the go-to event for technology leaders in the Prairies who are looking to understand what technologies are in development to support their organizations.

To learn more about Cyber Summit, visit: Cybersummit.ca.

For additional questions, contact: summit@cybera.ca.

Security

PROTECTING ALBERTA'S DATA

With cybersecurity incidents increasing nationally and globally, collaboration will be key to managing and responding to these threats.

Cybera security services

CYBERA SECURITY NEXUS

The Cybera Security Nexus provides expertise and resources to publicly-funded institutions looking to assess, prioritize, and address their cybersecurity and policy gaps. Its services include:

1. An industry recognized IT security assessment framework (NIST)*

2. A foundational set of digital security policies, standards, procedures, guidelines, and baselines

3. Access to a CISO-level cybersecurity consulting to provide one-on-one guidance, direction, and advice

   *This assessment is available to all members, although post-secondary institutions participating in the national Cybersecurity Initiatives Program are encouraged to take part in the National Cybersecurity Assessment (see page 19 for more details)

MEMBER BENEFITS

- Organizations can gain a thorough overview of their cybersecurity operations, and pinpoint areas they are doing well, as well as areas for improvement

- Collective insights on Alberta's cybersecurity needs can be used for targeted shared service development, or government funding requests

- Gain support for the design, build, and monitoring of an Information Security Management System and its related activities

- Receive Information Security policies, standards, procedures, guidelines, and baseline templates, including leadership and faculty/staff engagement templates

MEMBERSHIP REQUIREMENTS

Available to any Cybera member organization in Alberta's public sector.

COST

Visit Cybera.ca/nexus to view the pricing tiers, and to find out how to join.

For additional questions, contact: projects@cybera.ca.

MIRIDOR — INTRUSION DETECTION SERVICE

Miridor gives Cybera's connected members a simple, but detailed, overview of potential indicators of compromise on their network, to improve their overall security posture.

How it works:

- Miridor "mirrors" the network traffic of participating members at Cybera's core router locations.
- The mirrored traffic is analyzed for known suspicious or malicious activity. This can include:
  - Malicious or malformed traffic.
  - Traffic attempting to exploit vulnerabilities.
  - Traffic from known botnets and other threat sources.
- The identified suspicious activity is catalogued in a customized, web-based database that can be reviewed by the member.

MEMBER BENEFITS
- No configuration, setup, or maintenance is required.
- Gain insight into your traffic without having to deploy extra equipment.
- Receive an easy-to-consume summary of the malicious activity analysis.
- Data is freely exportable for further investigations or reporting.

MEMBERSHIP REQUIREMENTS
Available to any Cybera member organization in Alberta's public sector that is connected to Cybera's network.

This service is geared towards smaller institutions (i.e. bandwidth traffic under 1.3 Gbps).

COST
Visit Cybera.ca/miridor to view the pricing tiers, and to find out how to join.

For additional questions, contact: projects@cybera.ca.

THREAT FEED FOR EDUCATION
This threat intelligence feed platform allows education organizations to configure their network protection devices against the latest cybersecurity threats.

How it works:

- The platform aggregates and curates threat intelligence from government entities, commercial threat intel providers, member institutions, and the open-source community.
- These feeds can be deployed into organizations' existing security appliances — such as firewalls — for activities such as blocking malicious source IPs, domains, and URLs.

MEMBER BENEFITS
- Gain access to a curated list of global malicious threats that can be applied to your school's network protection devices.
- Service easily integrates into most next-generation firewalls.
- Reduce time and money spent on subscribing to general security feed services, or maintaining your own intel.
- Strengthen your security posture by receiving a feed that automatically blocks threats.
- Receive frequent updates, ensuring you have the latest information that

is easy to consume and share.

MEMBERSHIP REQUIREMENTS
Available to any Cybera-connected member organization in Alberta's education sector (K-12 or post-secondary) that is not eligible for the **Cybersecurity Initiatives Program** (see page 19 for more details).

Participants must have a next-generation firewall (Palo Alto and Fortigate firewall products) or SIEM.

COST
Visit Cybera.ca/threat-feed to view the pricing tiers, and to find out how to join.

For additional questions, contact: projects@cybera.ca.

VIRTUAL FIREWALL SERVICE

Most organizations host their own firewall equipment, which can drain valuable staff time and resources. The Virtual Firewall Service alleviates these issues by placing a virtual firewall upstream on Cybera's network gateway.

MEMBER BENEFITS
- Organizations do not have to buy and host their own physical firewall appliances.
- Reduce "hair-pinning" (where internet traffic through the centralized firewall doubles back on itself), saving on bandwidth.
- Access a secure, scalable environment to trial new network technologies.
- Additional advantages of an

Alberta-based cloud infrastructure: local data storage, Calgary/Edmonton redundancy, and reliable failover.

MEMBERSHIP REQUIREMENTS
Available to any Cybera member organization that is a part of the Internet Buying Group.

COST
Visit Cybera.ca/vfs to view the pricing tiers, and to find out how to join.

For additional questions, contact: firewall@cybera.ca.

Other services

cira D-ZONE ANYCAST DNS

Cybera has partnered with the Canadian Internet Registration Authority (CIRA) to offer members free access* to its Domain Name System (DNS) protection and performance. The D-Zone Anycast DNS is useful for larger public and education institutions in Alberta that run their own .ca domain, and are at risk of Distributed Denial-of-Service (DDoS) attacks.

MEMBER BENEFITS
- High Reliability: D-Zone eliminates the single point of failure. DNS queries are automatically routed around outages or server failures.
- High Performance: D-Zone servers are located close to major internet hubs, reducing latency and improving performance.

- Distributed Denial-of-Service mitigation: Global servers absorb the DDoS attacks.

* Cybera will provide one free D-Zone account per interested member.

SECURITY INFORMATION AND EVENT MANAGEMENT

Cybera has teamed up with its 12 provincial, territorial and federal partners in Canada's National Research and Education Network (NREN) to build a Security Information and Event Management (SIEM) solution. This represents an unprecedented pan-Canadian effort to coordinate network threat monitoring, and thereby strengthen the overall security of Canada's NREN infrastructure.

To learn more about SIEM, visit: Cybera.ca/SIEM.

For additional questions, contact: projects@cybera.ca.

National Cybersecurity Initiatives Program

Funded by CANARIE, the Cybersecurity Initiatives Program (CIP) provides eligible post-secondary institutions with services that provide richer threat and vulnerability data, improved processes, and broadened expertise.

Available initiatives through CIP include:

D-ZONE DNS FIREWALL

A simple-to-implement and powerful tool that adds an extra layer of protection to existing network safeguards. This made-in-Canada DNS-based firewall solution is available to educational institutions.

MEMBER BENEFITS

- Block/redirect users (and bots) from malicious domains such as those that contain malware or are engaged in phishing.
- Block malware and phishing.
- Aggregate threat data to allow/deny traffic based on new intelligence.

CANSSOC THREAT FEED

The Threat Feed aggregates and curates threat intelligence from public and private cybersecurity threat feeds into a single block/allow list that eligible post-secondary institutions can deploy directly into their existing firewall.

INTRUSION DETECTION SYSTEM

The Intrusion Detection System (IDS) tracks suspicious network behaviour and can find new threats as they emerge.

Organizations that participate in the IDS initiative will be able to select an IDS device that suits their existing infrastructure, and receive funding to support the participation of cybersecurity staff in the national IDS collaboration.

CUCCIO CYBERSECURITY BENCHMARKING

A service that assesses and compares post-secondary organizations' cybersecurity processes and performance to promote evidence-based best practices.

The service includes:

- Benchmarking the cybersecurity performance of Canadian research and education (R&E) organizations.
- Continuous security monitoring of participating organizations.
- Assessing the cybersecurity performance of vendors.

Want to get involved in CIP? For more information, visit: Cybera.ca/CIP.

For additional questions, contact: projects@cybera.ca.

Frequently Asked Questions

CYBERA

Cybera's roots are in the Western Universities Research Consortium Network (WURCNet), formed in 1994. From this, the western provinces evolved their own Research and Education Network organizations in 1999, with Netera Alliance set up to manage and operate Alberta's network. Netera became Cybera in 2007, with an expanded mandate to accelerate technology adoption in the province through the use of digital infrastructure.

How is Cybera funded?

Cybera is funded by a grant from the Government of Alberta, as well as through membership and network administration fees. Cybera's members receive an annual membership invoice in March or April of each year.

We also receive additional funding to operate add-on services for specific members or sectors. For the list of Cybera's Add-On Services, see page 5.

NETWORKING

Can I sign up for either the Peering service or the Internet Buying Group, or are they a bundled package?

Connected members can sign up to receive just the Peering service.

If you join the Internet Buying Group, you are also automatically signed up for the Peering service. As a member of the Internet Buying Group, all of your internet traffic is sent to Cybera, where it will then be split between peered traffic and commercial internet. For more information, see the Peering service section on page 7, or the Internet Buying Group section on page 8.

What are the steps involved in joining the Internet Buying Group, Peering, or Virtual Firewall Service?

The first step is to contact: membership@ cybera.ca. We will organize an introduction meeting to discuss how you can benefit from Cybera's network services. This will be followed by a discussion between your network technicians and Cybera's technical team, who will guide the process from that point onward.

How long does it take to get set up?

Getting set up for the Internet Buying Group, Peering, or the Virtual Firewall Service can take approximately 4 - 10 weeks, depending on the complexity of your connection.

What is the duration of the Internet Buying Group contract agreement?

The duration of the contract agreement is one month, recurring. You can change the amount of bandwidth you need month-to-month.

If I am currently in a contract agreement with an Internet Service Provider, should I still become a Cybera member?

The answer to this question depends on a number of factors and merits a discussion with Cybera. We are a neutral organization and can offer advice on how to optimize the efficiency of your internet access.

Even if you do not connect to Cybera's network, there may be other reasons to join, such as access to Advocacy efforts, advanced technology pilots, and other shared services. For more information, see

the Membership Overview section on page 3.

MEMBERSHIP

Who is eligible to become a Cybera member?
Schools, libraries, research facilities, public institutions, and business incubators are welcome to join Cybera to benefit from its many networking and above-the-network services.

Do all members have access to the same services?
Different Cybera services and pilot projects are available to different members, depending on their location and sector. Cybera's membership team can discuss with you what services are available to your organization.

How are Cybera members classified?
Class A members are typically post-secondary institutions with a significant research mandate. These members help set the direction for Cybera as voting members at its Annual General Meeting.

Class B members typically include post-secondary institutions (without a significant research mandate), as well as K-12 school boards, and public and not-for-profit organizations. These members do not vote in Cybera's Annual General Meeting, but have access to the same services as Class A members.

Is my organization a member of Cybera?
To view the list of current members, visit: Cybera.ca/membership.

If your organization is not listed, and you wish to become a member, contact: membership@cybera.ca.

HOW MUCH DOES IT COST TO BECOME A CYBERA MEMBER?

Type of Membership	Type of Organization	Annual Membership Fees
Class A	Post-secondary institutions with a significant research focus	$30,000
Class B	Organizations that are connected to CyberaNet with 500 or more FTE students or employees	$3,500 plus $0.50 per student/ employee (whichever is greater) to a maximum of $20,000*
	Organizations that are connected to CyberaNet with fewer than 500 FTE students or employees	$1,000 plus $0.50 per student/ employee (whichever is greater)*
	Non-connected organizations	$500

* For municipality members the fees may vary.   FTE = full-time equivalent

Contact Information

GENERAL INFORMATION
info@cybera.ca

MEMBERSHIP / MEMBER SERVICES
membership@cybera.ca

NETWORKING
network@cybera.ca

RAPID ACCESS CLOUD
rac-admin@cybera.ca

DATA SCIENCE / APPLIED DATA SCIENCE LAB
datascience@cybera.ca

SHAREIT
shareit@cybera.ca

SECURITY SERVICES
projects@cybera.ca

CYBERSECURITY INCIDENTS
To notify us of cybersecurity incidents, contact: security@cybera.ca

VIRTUAL FIREWALL SERVICE
firewall@cybera.ca

PROJECTS
To discuss possible project opportunities, contact:
projects@cybera.ca

ADVOCACY
If you would like to participate in Cybera's advocacy efforts, or are aware of a digital accessibility issue that you would like Cybera to help address, contact: policy@cybera.ca

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The information contained in this booklet is current at the time of publishing, however, information and rates are subject to change. Please visit our website or contact our membership team for the most up-to-date information.

09.15.2022

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