Composed of CANARIE and 13 regional partner networks (RANS) all connected to the CANARIE backbone.
1 RAN in each province and in 2 territories & 1 in Ottawa for federal government labs.
CANARIE’s programs support Canadian excellence in research and innovation

- Network: canarie.ca/network
- Identity Management: canarie.ca/identity
- Cloud Resources: canarie.ca/cloud
- Research Software: canarie.ca/software
Research Software Program

CANARIE funds & supports the development of software for research:

1. **Research Software Platforms / Science Gateways** - a software system that supports most or all of the functionality a researcher uses in their research workflow

2. **Software Services** - a software component that contributes one piece of functionality to a research platform.

Available to all researchers at: science.canarie.ca
An innovative cycle of software reuse

- Enables more effective use of research funding
- Accelerates scientific discovery
Research Data Program

Contributing to the development of key elements of Canada’s research data management ecosystem

- Recommendations that support data management policies
- Accessible, interoperable & appropriately preserved data sources
- Standards & best practices
- National plan for data management
Canadian Access Federation

- Operate two trust fabrics having 147 overall Participants:
  - eduroam - 106 sites (some sites belong to both)
  - Federated Identity Management (FIMS) – 46 IdP, 75 Services
- Engage in close partnerships with InCommon and JISC
- Strong eduGAIN advocate leveraging external services

*Bubble area represents total size of federation*
Prioritizing our Work

- **High impact, low effort.** 😊 (YES!)
- **High effort, high impact.** (MAYBE) 😐
- **High effort, low impact.** (NO!) 😞
- **Low impact, low effort.** 😞 (MAYBE)
Ensuring All IdPs are globally visible in eduGAIN

> Milestone:
  • 100% of CAF IdPs are in eduGAIN as of August 15, 2017
> Full IdP coverage means easier access to services
> Export of new services will be default going forward.
> Participating in eduGAIN’s review of profile to improve quality of metadata

Number of entities in eduGAIN
All: 49
IdPs: 46
SPs: 3
Support For R&S Entity Category

> Milestone:
  • CAF offers R&S entity category support, as of August 31st, 2017

> Easier access to services

> Engaged with all Higher Ed CIOs for top-down broad adoption

> Working with key services driving adoption
Simplifying Installation & Improving Software Guidance

> **Milestone:**
  - Updated software capability assessment & recommendations for Fall 2017

> **CAF Automation tools**
  - ease installation
  - raise the bar for base configuration

> **Simplifies complex technology choices**

> **Highlights features important to community**
Future Areas of Interest and Activity

> Improving attribute release
  • R&S support reach

> Improving reach
  • Bring in late adopters more quickly

> Improving holistic view of federated ID
  • Focus on sustainable non-web SSO approaches

> Improving user experience (UX)
  • Discovery v.Next → involved in RA21.org

> Improving security
  • Help keeping current to be low effort → automation, containerization
  • SIRTFI
  • Gathering requirements/interest for authorization scenarios to identify common needs.
Identifying and showing a solution is only a part of the story.
We are not a singular technology, but a blend of principles, process, and delivery models.
We help aggregate need and interests to execute at scale.
> **Classic service by service release style**

- Create policy for each service you want to trust
  - 1:N entities
  - Fine grained, one time, but higher effort
Scaling Attribute Release with Entity Categories

> Leverage entity categories style

> Create policy for each category you want to trust
  • 1 category = many entities

> Policy is to the category criteria, NOT the entity identifier
  • Equally thorough, less effort to maintain

> NO effort to enable new services who receive category; they just start working