

canarie



CANARIE & CAF

Chris Phillips | Nov 2nd, 2016 | Ottawa, DIACC

Brief History of CANARIE

1993:

CANARIE created;
programs support,
application
development

1998 – 2003:

CA*net 3
launched: world's
fastest research
network

2000 – 2005:

E-learning,
e-business,
e-health
programs

2007 – 2012:

Research
Software, Cloud
Computing,
Canadian Access
Federation

2012-2015:

100G network
upgrade, Research
Software Registry,
Research Data
Canada support

And today...

Millions of Canadians
have access to the
CANARIE network

600+ Canadian SMEs
use CANARIE's DAIR
cloud service

69 cross-disciplinary software
tools, free for use by the
scientific research community

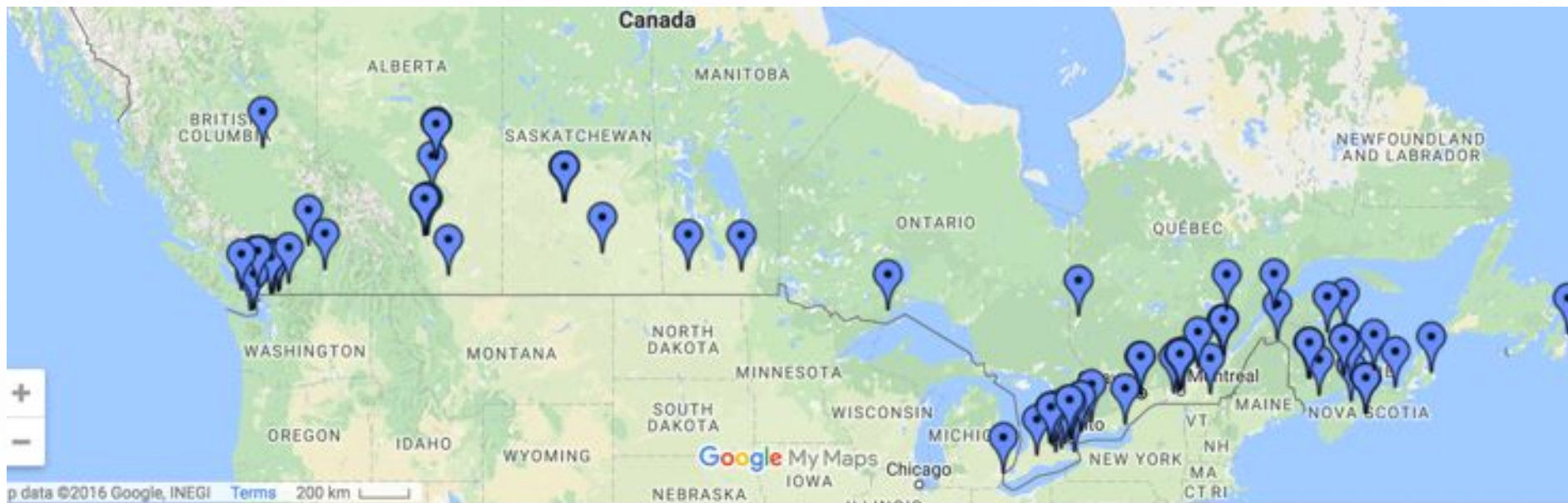
172,000 Terabytes of
data carried by the
CANARIE network in 2015

23,000 KM coast-to-coast
ultra-high-speed research
and education network

9.5 million+ eduroam
log-ins that CANARIE
manages each month

CAF – The Pan Canadian Research and Education Federation

- Seamless secure 802.1x roaming wifi
- At over 100 Canadian sites
- Roaming in 80 countries worldwide
- 9.5 million sign-ons/monthly
- Federated Identity Management for R&E services
- 40+ institutions, 60+ services domestically
- Bidirectional exchange to 38 other feds
- 2219 IdPs, 1376 SPs worldwide & growing



Identity and Credentials in Context

- Roaming in 80 countries worldwide
- SSID available in over 19,500 locations

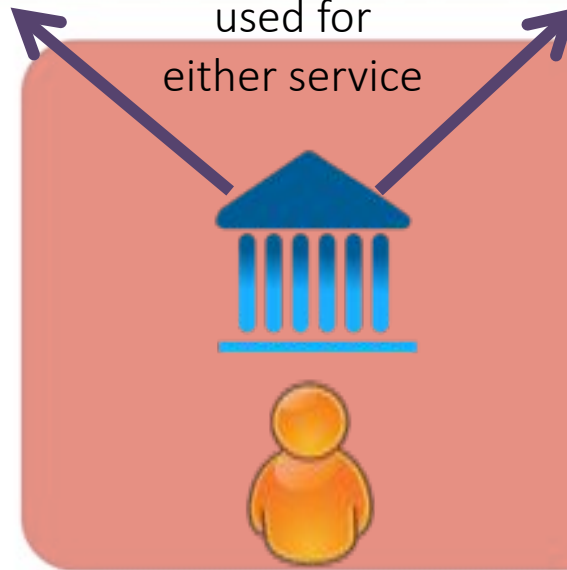
eduroam



- Bidirectional exchange to 38 other feds
- 2,221 Identity providers
- 1,377 Service providers



Same credential
used for
either service



Institutional identities

Sufficiently proofed such that

- They are assigned credentials
- Can enter binding relationships
- Can act with authority in their systems
- Can link to their records (degree/payroll)

Federation Trust in Concrete Terms

Agreement

Signing the CAF Agreement

Technology

Implements chosen protocols

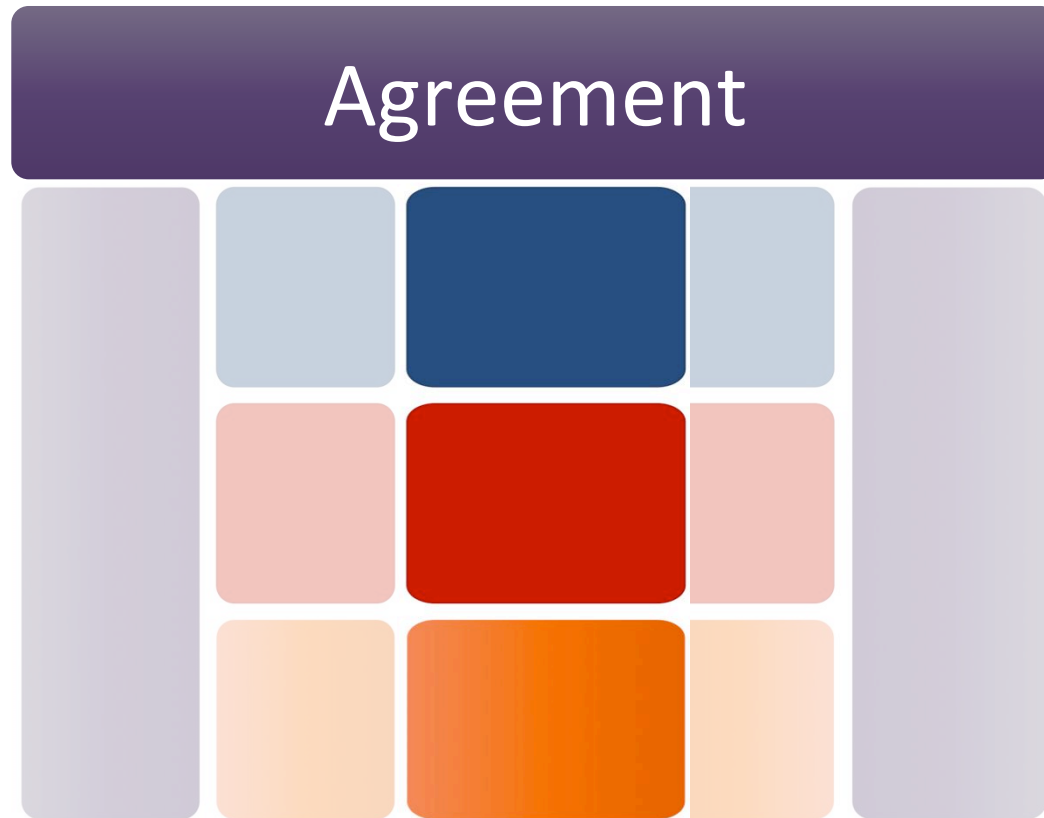
Practices

Consistent use and meaning
of CAF eduPerson based
data dictionary

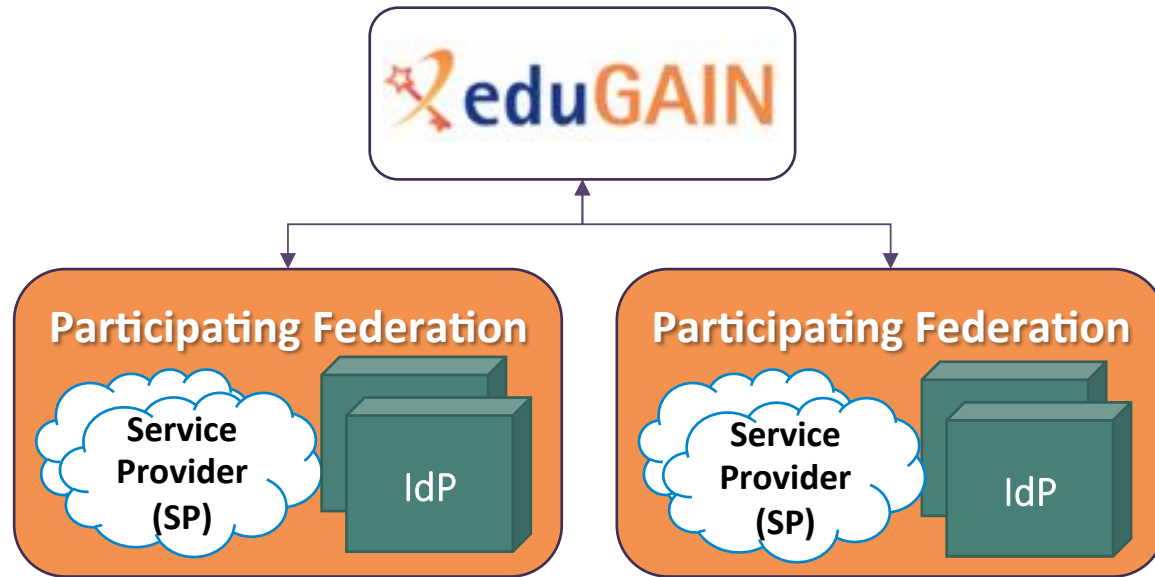
Behaviours

As described in your Trust
Assertion Document

Interfederation in Abstract Terms



Interfederation in Practice - eduGAIN



- > eduGAIN inter-federates multiple federations
 - International collaboration is easier with eduGAIN
- > Has 38 federations: 2219 IdPs, 1376 SPs ... and growing daily
 - See <https://technical.edugain.org>

What would CAF's participation in DIACC look like?





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