Canadian Access Federation
2022 Update

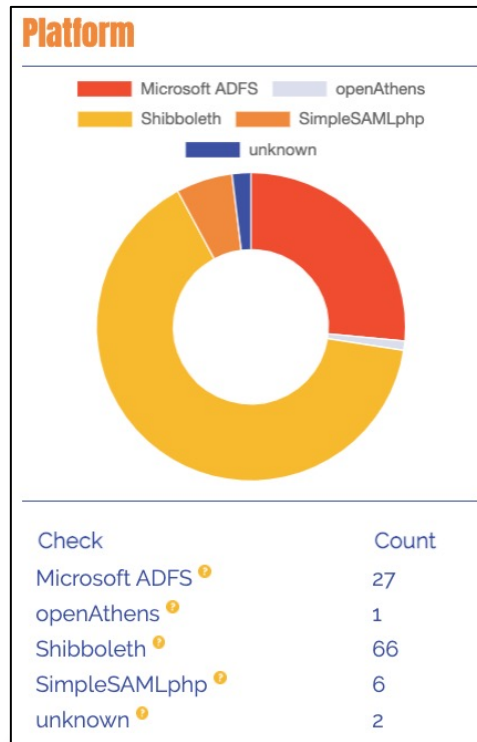Chris Phillips, Tom Vitez | REFEDS 2022, Trieste
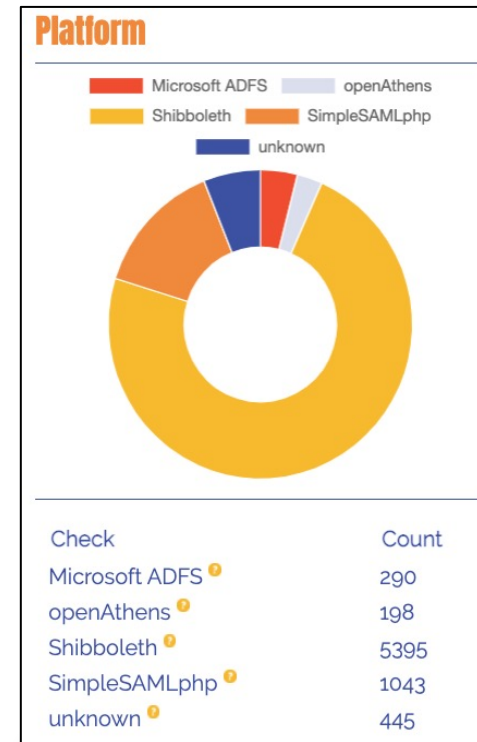
June 13, 2022

About CANARIE

- CANARIE is a federally-funded not-for-profit whose core purpose is **to advance Canada's knowledge and innovation infrastructure**

- We are the federal partner in Canada's NREN

- We have an enhanced cybersecurity mandate and are collaborating with the provincial partners across Canada

- We are the federation operator for **Canadian Access Federation** and **eduroam** in Canada

CAF and eduGAIN

Platform

■ Microsoft ADFS		■ openAthens	
■ Shibboleth		■ SimpleSAMLphp	
■ unknown			

Check	Count
Microsoft ADFS	27
openAthens	1
Shibboleth	66
SimpleSAMLphp	6
unknown	2

eduGAIN

Platform

■ Microsoft ADFS		■ openAthens	
■ Shibboleth		■ SimpleSAMLphp	
■ unknown			

Check	Count
Microsoft ADFS	290
openAthens	198
Shibboleth	5395
SimpleSAMLphp	1043
unknown	445

- CAF covers nearly all 92 Canadian universities, colleges uptake improving but slower, all in eduGAIN
- Trends:
  - 60% Shibboleth – most popular config: Azure AD proxying with hybrid on-prem + AAD
  - 30% ADFS with ADFSToolkit - new sites are split either ADFS or Shib on windows with/without proxy
  - R&S and SIRTFI tagging becoming much more common rather than exception

As of April 2021

Solutions we support and endorse

|	Completely on Premises	Hybrid	Completely Cloud Native
Directly Supported Platforms	Shib v. Existing		
	Latest Shib v4 default, Proxying as Pass-though or Hybrid		
	ADFS + ADFSToolkit v. Existing		
	ADFS + Latest ADFSToolkit v2		
Endorsed R&E Capable Platform	SATOSA		
	SimpleSAMLPHP		
	Apereo CAS		

Our aim

Being the best option at securing identity and services for scalable, authentic, trustworthy, and robust online collaboration with

- Faster implementation times
- Least support and sustainment effort for all
- Path of least resistance embracing IAM best practices at scale
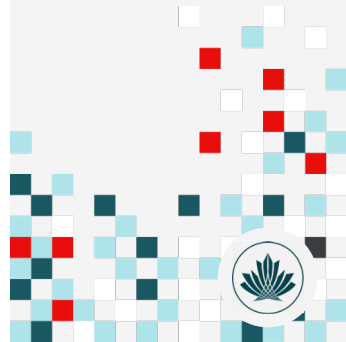
Challenges driving us toward new targets

Pressures from all sides: budgets shrink, skilled workforce depleting, time on task difficult

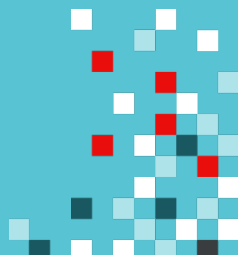Sites flocking to platforms rather than software solutions

Drove us to invest in

Promotion of REFEDS-MFA across platforms	ADFSToolkit v2.1.0 with REFEDS-MFA support	Shibboleth IdP with Azure AD proxying to link to platform	Working toward *as-a-service offerings

Topics we are eager to discuss

Able to collaborate with other R&E IdPs using Sharepoint.com?

Proxy-as-a-service – have you operationalized yours and on what?

persuading members to keep IdP software current/patched for security (SIRTFI) compliance?

Federation management technology – where are you on your lifecycle with it?

IAM group management for zero trust models – tried and true blueprints yet?