



Shibboleth Consortium Update and Development Roadmap

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Shibboleth Consortium

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Challenges

Keeping Shibboleth Open Source and free for anyone to use, whilst meeting the costs associated with maintaining it

- Wide-scale adoption also means wide-scale reliance this has grown over time
- Considerable time and effort is needed to maintain the product which has a cost associated
- Expertise in Shibboleth remains a niche area and commands a high value



The Consortium

- Comprised of a Board, Members, Developers and a Manager
- The body which handles financial and contractual management
- Provides strategic direction to the Shibboleth Project
- Not a legal entity in itself
- Requires an Operator (Jisc) and has a Manager (Justin)



Financial Comparison of 2018 and 2019

2018 Income	
NREN/Federation Members:	£398,794
Academic/Non-Profit Members:	£172,482
Commercial Members:	£17,690
Donations:	£880
Balance from 2017 carried forward:	£305,184
Total:	£895,030
Expenditure	
Consortium Operations:	£37,680
Development Costs:	£352,162
Infrastructure:	£2,121
Travel and expenses:	£738
Total expenditure:	£392,701
Total balance at year end:	£502,329

2019 forecast Income	
NREN/Federation Members:	£416,109
Academic/Non-Profit Members:	£187,131
Commercial Members:	£17,600
Balance from 2018 carried forward:	£502,329
Total:	£1,123,169
Expenditure	
Consortium Operations:	£37,680
Development Costs:	£498,226
Infrastructure:	£3,000
Travel and expenses:	£3,000
Total expenditure:	£541,906
Total forecast balance at year end:	£581,263



Financials (cont)

2018 was a good year, in thanks largely to the membership growth from US institutions.

Our intentions were to use the stronger financial footing to:

- Increase development effort (2 new developers brought in)
- Be able to respond to community requests more (e.g. OIDC extension)
- Enhance the product and ship quality releases in good timescales (IdP v4 is on the way, more from Scott on the roadmap)



Consortium Membership

Has grown significantly over the last couple of years

• End 2016: 20

• End 2017: 42

• End 2018: 52

Membership now stands at 56, comprised of

- 3 Principal Members
- 15 national identity Federation Members
- 34 Academic / Non-Profit Members
- 4 Commercial Members



Membership Benefits

Help keep the software maintained

Membership contributions go directly to funding the ongoing maintenance, support and development of the software

Access expert support

Members benefit from direct support from the core development team

Contribute to the strategic direction of the product

Especially Principal members, who sit on the Board

All members have a voice



Membership Fees (annual)

Category	Small	Medium	Large
NREN/Federation Member	\$14,800	\$29,600	\$59,200
	(€ 12,500)	€ 25,000	€ 50,000
Academic/Non-Profit Member	\$2,960	\$5,920	\$8,880
	€ 2,500	€ 5,000	€ 7,500
Commercial Member	\$5,920	\$11,840	\$23,680
	€ 5,000	€ 10,000	€ 20,000

To become a Principal Member and get a seat on the Board, an additional \$22,600 (€20,000) will qualify any level.

Academic organisations with multiple campuses that share the same Shibboleth system may join at the multi-site level. The fee for this level is \$29,600 (€25,000) and all campuses within the organisation will be represented under a single membership.



How to join?

- Contact Justin Knight at <u>justin.knight@jisc.ac.uk</u> or <u>contact@shibboleth.net</u>
- The appropriate tier will be established
- Sign the Membership agreement
- Jisc, as Consortium Operator, raise an invoice
- We get you set up with access to the support channels and relevant mailing lists



Shibboleth Roadmap

Scott Cantor, The Ohio State University Lead Developer



2018 Highlights

- IdP 3.4
 - Final release in V3 line
 - Warnings added for features scheduled for removal
 - Metadata-driven configuration features supporting ongoing GUI development by Internet2
 - Extensive improvements in dynamic metadata support in response to InCommon WG feedback

2018 Highlights cont.

- SP 3.0
 - First major upgrade in many years
 - OpenSSL 1.1 compatibility for newer OS versions
 - Modernized, more secure IIS support
 - Streamlined configuration for virtual hosting
 - Extensive improvements in dynamic metadata support in response to InCommon WG feedback

Planning Parameters

- Financial stability
- Additional developers for increased parallelism
- Success/adoption of V3, "soundness" of design
- Technical debt (V3 based on Java 7, Spring 4)
- Desire for increased release frequency provided adoption curve remains tractable

Product Roadmap - SP

- Mature product with coverage of the "viable" web server platforms
- Maintenance / library compatibility
- Packaging
 - Fostering more relationships with volunteers
 - Clearer message to members that we'll support them on platforms with a good packaging story

Product Roadmap - IdP

- Planning two "smaller" major releases with roughly 12 month development schedules
- V4 will remove V2 legacy features, "mostly" compatible
- V5 will allow for API changes needed to finalize some newer features

Product Roadmap – Java Strategy

- We are an enterprise product, not an "agile" one
- CI coverage of LTS (11) and latest Java releases using "officially supported" Java builds
 - This would be clearer if we knew what "officially supported" meant yet
 - Probably *not* Oracle "commercial" Java

Product Roadmap – IdP V4 - Overview

- https://wiki.shibboleth.net/confluence/x/eYDNAQ (rough "rolling" planning/notes document)
- Java 11, Spring 5, (Jetty 9.4)
- Most significant removals:
 - V2 RelyingParty syntax
 - Legacy resolver/filter XML namespaces
 - <Dependency> element replaced in V3.4
 - NameID encoding via resolver (probably)

Product Roadmap – IdP V4 – New Work

- Starting work on inbound proxying (i.e. SSO login flows)
 - OIDC for sure
 - SAML "maybe", something short of a full-featured SP
- Redesign of attribute encoding/decoding features to streamline the processing and mapping of data between protocols

Product Roadmap – IdP V4 – New Work

- Small logout enhancements
 - SOAP support
 - UI enhancements with more user control for some deployers
- Possible future replacement of Velocity in Spring views, e.g. FreeMarker
- Lots of misc stuff, -> Jira

Product Roadmap – OIDC

- 1.0 release of extension for IdP V3.4 from GEANT team available, certification testing shortly
- Extension <u>will</u> be adopted into IdP in a future release
 - V4 or V5 depending on tester feedback and scheduling/workload of the principals
 - Some configuration changes of course likely

Product Roadmap – OAuth

- Additional profiles likely in the medium term (e.g. AppAuth) provided there's significant interoperability
- Generalized support will depend on feedback from OIDC testers and more experience with what's needed/useful

Questions?







Upcoming Events

InCommon Shibboleth Installation Workshop UMBC, Baltimore, Maryland

April 30-May 1, 2019 www.incommon.org/shibtraining

BaseCAMP: Hands-on with Federation and the InCommon Trusted Access Platform

August 13-15, 2019

Hyatt Regency, Milwaukee, Wisconsin

https://meetings.internet2.edu/basecamp-2019





Please evaluate today's session

https://www.surveymonkey.com/r/IAMOnline-Apr2019