



## Minutes of Shibboleth Consortium Board Meeting #101

13<sup>th</sup> July 2022 – Videoconference

### Attendees

Name	Organisation	Country
Scott Cantor (SC)	Developer Representative	United States
Kevin Morooney (KM)	Internet2	United States
Emily Brown (EB) <i>Secretary</i>	Jisc	United Kingdom
Alex Stuart (AS)	Jisc	United Kingdom
Steve Zoppi (SZ)	Internet2	United States
Wolfgang Pempe (WP)	DFN – Member Representative	Germany

### Apologies

Manne Miettinen (MM)	NORDUnet	Finland
Davide Vagheti (DV)	GARR – Member Representative	Italy
Joe Steele (JS)	Jisc	United Kingdom

Minutes of the previous meeting on 11<sup>th</sup> May were approved.

### 1. Actions

Ref	Description	Owner	Complete by	Status
93.1	Creation of a Shibboleth survey to acquire future development options from the community.	All	2022	<b>Ongoing July 2022</b>
96.1	FAQ page	All	March 2022	<b>All Board members are advised to read over the FAQ page and provide</b>

				<b>suggestions in an attempt to reduce the confused applications from customers surrounding the Consortium &amp; software.</b>
99.1	Developer Contracts	EB	May 2022	<b>Emily is in the process of reviewing the contracts for 22/23.</b>
99.2	Survey Actions	SC	May 2022	<b>Closed.</b>
101.1	Survey Actions.	All	July 2022	<b>Review the final draft of the survey and provide feedback by 18/07 at the latest.</b>

## 2. Financial and membership updates

Emily noted payments are still outstanding from 2021 from: Belnet, University of Maine System, Rectors and Visitors, Gjaldstovan, The Research Foundation for SUNY, Indiana University of Pennsylvania & Lawrence Berkeley National Laboratory.

Debtors for 2022 include: MIT, MPASSID, Texas State University and CINCEA.

Renewal requests are out, up until June: University of Michigan, University of Illinois at Urbana – Champaign, University of Montana, University of Wisconsin – Madison, Internet2, Jisc, DFN, Marist College, University of Washington

Renewal requests have been confirmed by: Switch, Northwestern University, Temple University, MIT & Cincinnati Children's Hospital medical Centre. Texas State University, Stockholm School of Economics, University of North Carolina at Charlotte, The University of Texas at Austin, RNP, CESENT, Gakuin, CINECA, Los Rios Community College District, Brown University, Pacific Lutheran University, James Madison University, Oakland University & University of Illinois at Urbana-Champaign.

Emily reported that we have received promising interest from St. Edward's University & Springfield College.

## 3. Development update

<https://shibboleth.atlassian.net/wiki/spaces/DEV/pages/3014918149/July+2022+Update>

The last month has seen some additional plugin releases, and substantial progress on refactoring the code base in preparation for IdP V5 and SP development.

Another new [OP feature update](#) has been released as we continue to focus a lot of effort on extending the OIDC/OAuth feature set. The OP now supports JWT access tokens for all supported grant types, though full OAuth support for non-OIDC clients is not yet finished at this point (it should be in the next feature drop), and the OP is intelligent enough to understand when token encryption is possible or not. The other major new feature is a substantial revision to the revocation features so

that individual tokens can be revoked, rather than the entire chain stemming from the original code grant. Use of refresh tokens also results in automatic rotation (the old token is revoked and a new one issued), which is a recommended security practice.

We have released the planned [JDBC Storage plugin](#), and addressed a number of bugs so far; we hope/expect the latest release should be production-worthy at this point. It's much more efficient to turn around new plugin releases of course, which is why you can expect most new self-contained features to be released that way.

We are well into the process of code [reorganization](#) at this point. Most of the metadata- and attribute-related classes have been migrated into new Java projects (java-shib-metadata and java-shib-attribute) and the main branch of the IdP has been purged of those classes, many modules removed, and small adjustments made in a few cases to rebase the IdP on the new libraries. So far, there don't appear to have been any significant compatibility issues created for deployers, though that's mostly due to a deliberate choice to leave the package names alone. It's likely we'll lean toward leaving "idp" in the names of the packages and some classes even while using them within the SP, but there will probably be some exceptions, particularly where implementation classes are concerned.

Note that the new repositories are not "final" at this point, so any clones made are likely to require re-cloning at some point to allow us to clean up unrelated branches and history.

The next big step is going to be to combine the java-support and spring-extensions repositories so we can begin to turn them into new multi-module projects, followed by rebasing the major projects on them. A few other low-level development cleanup tasks are underway in parallel, and we're identifying and accounting for changes in Spring 6 that may impact the codebase.

The Spring project has seemingly agreed to accept our updated Spring WebFlow build that supports Spring 6 and Jakarta EE, so we expect to be able to leverage an official SWF release. Hopefully at least some of our local changes to it will be accepted upstream to minimize those additions, but the important thing is we don't expect to have to fork it for our own use.

There's not much to report re: the SP development apart from the code reorganization being critical for that process. Now that the metadata and attribute services are outside the IdP codebase, we can begin to mock up real SP designs that leverage these components as planned. This will go a long way toward figuring out what the SP configuration might actually look like, but it's safe bet that most of the metadata- and attribute-related configuration in the current SP will be left behind as it would be a tremendous amount of work to support that in any sensible way.

Finally, we have a lot of interest in potentially identifying partner projects that would be interested in collaborating on token management APIs and user interface work in support of a robust WebAuthn implementation. We're very good at the systems development, and we're very not-so-good at building web applications. If there are projects or people interested in collaborating, please get in [touch](#).

#### **4. Discussion of Development Roadmap and sustainability of Development team**

Scott will update the roadmap in the coming month to reflect the most recent development update.

##### **Roadmap:**

We're actively working on the following, which will likely take us through the rest of this year:

- Work on an OIDC proxying support plugin continues and hopefully will wrap up this summer.
- A replacement plugin that implements support for database storage without Hibernate is under development so that we can remove Hibernate from V5 entirely. Its lack of reliability and the lack of provenance of its software artifacts make this a high priority. The new plugin should be a drop-in replacement.
- Another significant feature update for the OP plugin is under development on an aggressive timeline to meet some member requirements. The scope is not fully defined, but is under discussion and definitely includes expansion of JWT support and some revocation enhancements. Logout is under discussion but is not a committed work item, mainly because much of that work (and what we've already done) will probably be moot with the changes coming to browsers soon.
- A parallel work stream is underway to port and test the code base on Java 17 and Spring 6 with the Jakarta EE changes, and address the likely end of the road for Spring Web Flow as a third-party project. We have POC code running successfully on Spring milestones now. We are actively looking at [code reorganization](#) for this release but we will be focused on reducing impact to deployers as much as possible.
- Finally, work has started on the [SP redesign](#), though if the new release is the top of Mount Everest, we've basically started researching tickets to Nepal. The work should take further shape over the next few months and allow more of the work to be devolved to the team in certain areas.

## 5. AOB

Emily is in the process of reviewing the developer contracts for 22/23.

Scott mentioned the possibility of allocating some money to a small project developer to assist with ongoing work.

Regarding Wolfgang's email and the FedID CG Federated Credentials Management API, this was discussed and not seen as an immediate threat, however the board are not dismissing this and will revisit.

The Chair for the next six months is NORDUnet: July 2022 - December 2022

## 6. Next Meetings:

Wednesday 10<sup>th</sup> August

Wednesday 14<sup>th</sup> September