

@Web Conference
7 May 2025

OAuth SIG Community 23rd Meeting (68th from ex-FAPI-SIG)

Table of Contents

New Support

1. Workload Identity - Transaction Token, SPIFEE
2. FiPA
3. SSF
4. OpenID Federation 1.0

Refinement

1. OID4VCI
2. Token Exchange
3. DPOP
4. Passkeys
5. FAPI 2.0

Community Event

KeycloakCon Japan

KeyConf 25 Amsterdam

New Support

1. Workload Identity - Transaction Token, SPIFEE

- Specification (IETF Internet Draft in OAuth WG)

<https://www.ietf.org/archive/id/draft-ietf-oauth-transaction-tokens-05.html> (updated)

- Status - Transaction Token: Some SIG members have PoC and would work on it.

<https://github.com/dteleguin/tts-demo>

- Status - SPIFEE: Some IBM staff have PoC and would work on it.

https://github.com/maia-iyer/spire-demos/tree/main/keycloak_token_exchange

2. OAuth 2.0 for First-Party Applications (FiPA)

- Specification (IETF Internet Draft)

<https://www.ietf.org/archive/id/draft-ietf-oauth-first-party-apps-01.html> (updated)

- Status: Some SIG members would work on it.

- Discussion:

Support for native login experiences with OAuth 2.0 First-Party Applications ([#25014](#))

Refactoring Authenticators to Support an API-Based Authentication Approach ([#36924](#))

Enable user authentication by presentation of an SD-JWT identity credential with OAuth 2.0 for First-Party Applications (FiPA) ([#38796](#))

3. Shared Signals Framework (SSF)

■ Motivation

Some major platform vendors supported/required it:

- Apple Business Manager, Apple School Manager
- Google Cross-Account Protection (RISC)

■ Adopters

A lot (Cisco, Okta, etc.), but not officially announced (maybe SSF is for internal use?)

■ Specification (Implementer's Draft)

- SSF: https://openid.net/specs/openid-sharedsignals-framework-1_0-ID3.html
- CAEP: https://openid.net/specs/openid-caep-interoperability-profile-1_0-ID1.html
- RISC: https://openid.net/specs/openid-risc-profile-specification-1_0.html

■ Discussion: Support RISC and CAEP events / Shared Signals and Events (#14217)

Some SIG members are working on it.

- PoC for a receiver: <https://github.com/identitytailor/keycloak-ssf-support>

4. OpenID Federation 1.0

■ Motivation

- Enabling automatic client Registration within the European ecosystem: Payment Service Directive (PSD), Payment Services Regulation (PSR), Financial Data Access (FIDA)
- In research & education field, eduGAIN's OpenID Federation profile support.
- Adopters: Italy's digital identity system (SPID),
Greece's academic network (GRNET) in the future?

■ Specification (Implementer's Draft)

https://openid.net/specs/openid-federation-1_0.html

■ Discussion: Support for OpenID Federation 1.0 ([#31027](#))

PoC: dynamically registering a wallet by OpenID Federation

CNCF Blog:

<https://www.cncf.io/blog/2025/04/25/building-trust-with-openid-federation-trust-chain-on-keycloak/>

KeycloakCon Japan: <https://keycloakconjapan2025.sched.com/event/23463>

Refinement

1. OpenID Verifiable Credentials Issuance (OID4VCI)

- Goal: Keycloak can work as an issuer of VCs. (currently it is an **experimental** feature)
- Status: In progress
- Possible use-cases: German National EUDI Wallet
<https://bmi.usercontent.opencode.de/eudi-wallet/eidas2/en/start/>
- Design:
<https://github.com/keycloak/keycloak-community/blob/main/design/OID4VCI.md>
- Guide: [adorsys/keycloak-ssi-deployment](#)
- Discussions:
 - OpenID for Verifiable Credential Issuance ([#17616](#))
 - [\[OID4VCI\] Realm based scope credential approach \(#39265\)](#)
- Epic issue: [\[OID4VCI\] Approaching Credential Scope based API design \(#32961\)](#)
Status: 8 out of all 8 issues were resolved. (100%) -> **Close it?**

1. OpenID Verifiable Credentials Issuance (OID4VCI)

■ Epic issues:

[OID4VCI] Implementing support for OID4VCI ID2 Draft 15 ([#39273](#))

Status: 0 out of all 19 issues were resolved. (0%)

[#39271](#), [#39272](#), [#39276](#), [#39277](#), [#39278](#)(Optional), [#39279](#), [#39282](#), [#39283](#),
[#39284](#)(Optional), [#39286](#), [#39287](#), [#39289](#), [#39290](#), [#39291](#), [#39292](#), [#39293](#),
[#39294](#), [#39309](#), [#39310](#)

[WIP] [OID4VCI] Support: Authorization Code Flow ([#39261](#))

[#39130](#)(PR: [#39148](#)), [#39260](#), [#39264](#)(PR: [#39409](#))

2. Token Exchange - Internal/Internal

- Goal: Officially supported (currently it is a **preview** feature)
- Status: Completed (Keycloak 26.2)
- Epic issues:
 - Support for standard Token-Exchange ([#31546](#)) -> Closed

2. Token Exchange - Internal/External

- Goal: support as **preview** feature(?)

- Status: In progress

- Epic issues:

 - Federated token exchange ([#38335](#))

 - Status: 2 out of all 14 issues were resolved. (+2 resolved, 14%)

 - [#12546](#), [#12548](#), [#14922](#), [#16426](#), [#20042](#), [#20185](#), [#29313](#)(PR: [#29343](#)),
[#33332](#)(PR: [#35075](#), merged), [#34682](#), [#34869](#), [#36295](#), [#37193](#), [#37725](#),
[#37988](#)(PR: [#37989](#), merged)

 - Subject impersonation token exchange ([#38336](#))

 - Status: 0 out of all 5 issues were resolved. (0%)

 - [#16294](#), [#17668](#), [#25367](#), [#28440](#)(PR: [#29398](#)), [#35902](#)

3. Demonstrating Proof-of-Possession (DPoP)

- Goal: Officially supported (currently it is a **preview** feature since KC 23)
- Status: In progress
- Epic issue: DPoP: promote from preview to supported ([#22311](#))

Status: 9 of 12 issues were resolved (75%)

[#21921](#), [#26277](#), [#33942](#),

4. Passkeys (Multi-Device FIDO Credentials)

■ Goal: Officially supported (currently it is a **preview** feature since KC 23)

■ Status: In progress

■ Discussion: Support for passkeys ([#16201](#))

■ Epic Issue: Passkeys support ([#23656](#))

Status: 10 of 14 issues were resolved. (71%)

[#27945](#), [#29558](#), [#29596](#)(PR: [#38781](#)), [#32816](#)

■ Resources

- FIDO Alliance : <https://fidoalliance.org/white-paper-multi-device-fido-credentials/>
- Apple : <https://developer.apple.com/passkeys/>
- Google : <https://developers.google.com/identity/passkeys/>
- passkeys.dev : <https://passkeys.dev/>
- passkeys.io : <https://www.passkeys.io/>
- passkeys futures detection: <https://featuredetect.passkeys.dev/>

5. FAPI 2.0

The final version of FAPI 2.0 Security Profile was published in Feb 2025.

https://openid.net/specs/fapi-security-profile-2_0-final.html

The current (since KC23) Keycloak's FAPI 2.0 support is for its implementer's draft version 2.

https://openid.net/specs/fapi-2_0-security-profile-ID2.html

https://www.keycloak.org/docs/latest/release_notes/index.html#fapi-2-drafts-support

Need to follow the final version.

■ Epic Issue: FAPI 2.0 Security Profile final version support ([#38769](#))

Community Event

Events

2025

June



13 KeycloakCon Japan 2025 (Hilton Odaiba Hotel, Tokyo, Japan)



16 - 17 KubeCon + CloudNativeCon Japan 2025 (Hilton Odaiba Hotel, Tokyo, Japan)
- Keycloak session in Maintainer Track

August




25 - 27 Open Source Summit Europe 2025 (RAI Amsterdam Convention Centre, Amsterdam, Netherlands)



28 KeyConf 25 (Van der Valk Hotel Amsterdam Zuidas - RAI, Amsterdam, Netherlands)


KeycloakCon Japan

- Date: 13 June 2025, 1:00 - 8:00 PM (just before KubeCon Japan 2025, Tokyo, Japan)
- Venue: Hilton Tokyo Odaiba (Tokyo, Japan) 

As CNCF-hosted co-located event of KubeCon + CloudNativeCon Japan 2025.

- Web Site: <https://events.linuxfoundation.org/keycloakcon-japan/>
- Registration: Open. This event is free to attend.
- Schedule: Published.
<https://events.linuxfoundation.org/keycloakcon-japan/program/schedule/>

KeyConf 25

- Date: 28 August 2025 (just after OSS Summit Europe 2025, Amsterdam, Netherlands)
- Venue: Van der Valk Hotel Amsterdam Zuidas - RAI, Amsterdam, Netherlands 
- Web Site: <https://keyconf.dev/>
- Registration: Open.
- CfP: Open.

Note:

- BarCamp on 29 August just after KeyConf 25 on Backbase HQ.



END