

@Web Conference
6 December 2023

OAuth SIG Community 6th Meeting (51st from ex-FAPI-SIG)

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Ongoing working items of security features

OpenID Connect for Verifiable Credentials (OID4VCs)

■ Discussion

<https://github.com/keycloak/keycloak/discussions/17616>

■ Design

<https://github.com/keycloak/keycloak-community/pull/350>

■ Implementation (by FIWARE)

<https://github.com/FIWARE/keycloak-vc-issuer>

<https://github.com/wistefan/keycloak/tree/add-vci>

■ Working repository

<https://github.com/wistefan/keycloak>

■ Breakout sessions

2nd : 27 Nov (<https://github.com/keycloak/kc-sig-fapi/tree/main/OAuth-SIG/Breakouts/OID4VCs/2nd>)

3rd : 13 Dec

OpenID Connect for Verifiable Credentials (OID4VCs)

■ Current main topic

removing dependency packages as much as we can

Edwards-curve Digital Signature Algorithm (EdDSA)

■ Specification

- RFC 8032 Edwards-Curve Digital Signature Algorithm (EdDSA)
- RFC 8037 CFRG Elliptic Curve Diffie Hellman (ECDH) and Signatures in JSON Object Signing and Encryption (JOSE)

■ Discussion

- Supporting EdDSA

<https://github.com/keycloak/keycloak/discussions/15713>

■ Implementation

- Supporting EdDSA **PR sent**

Issue: <https://github.com/keycloak/keycloak/issues/15714>

PR: <https://github.com/keycloak/keycloak/pull/17215>

Working for resolving review comments.

Passkeys (Multi-Device FIDO Credentials)

■ 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/>

■ Discussion

<https://github.com/keycloak/keycloak/discussions/16201>

■ Implementation

Epic Issue: <https://github.com/keycloak/keycloak/issues/23656>

3 of 4 issues were resolved

Authentication by passkeys can be used as a preview feature.

Login-less authentication with WebAuthn Conditional UI can also be used as a preview feature.

Lightweight Token

■ Discussion

- Lightweight access tokens:

<https://github.com/keycloak/keycloak/discussions/9713>

■ Implementation

- Enhancing Light Weight Token:

Merged

Issue: <https://github.com/keycloak/keycloak/issues/21183>

PR: <https://github.com/keycloak/keycloak/pull/22148>

Three follow-up issues are still open.

- Supporting a reference/lightweight access token

Epic Issue: <https://github.com/keycloak/keycloak/issues/21186>

OpenID Connect for Identity Assurance 1.0 (OIDC4IDA)

■ Specification

- OpenID Connect for Identity Assurance 1.0 Draft
https://openid.net/specs/openid-connect-4-identity-assurance-1_0.html

■ Discussion

- Support for OIDC extensions: OIDC4IDA
<https://github.com/keycloak/keycloak/discussions/21270>

■ Implementation

- implement oidc4ida Draft PR sent
Draft PR: <https://github.com/keycloak/keycloak/pull/21309>

Waiting for discussion and review.

Token Exchange

■ Token Exchange:

https://www.keycloak.org/docs/latest/securing_apps/index.html#_token-exchange

Token Exchange is Technology Preview and is not fully supported.
This feature is disabled by default.

How to get the "Token-Exchange" feature out of preview?

Community Event: Keyconf 24

Keyconf 24

How about holding a community meeting Keyconf 24 in 2024?

Date and Time: ?

Venue: ?

Sponsor: ?

Program: ?

Ex. event: Keyconf 23

Date and Time: 10 AM - 4 PM, June 16, 2023

Venue: Level39, 1 Canada Square, Canary Wharf, London, UK

Web page: <https://www.eventbrite.co.uk/e/keyconf-23-tickets-621079815447>

(tickets sold out)

Program:

- Recently added features in Keycloak in past years that make Keycloak a strong performer in the IAM market - Marek Posolda / Red Hat
- OpenID FAPI work in the last 12 months - Vinod Anandan / Citibank
- Keycloak in Open Banking or consent-driven open data ecosystem - Kannan Rasappan / Banfico & Francis Pouatcha / Adorsys
- OpenID FAPI presentation (any demo or theme) - Takashi Norimatsu / Hitachi
- Roadmap on possible ideas for the future work of Keycloak - Marek Posolda / Red Hat
- Workshops on potential uses cases

Ex. event: Keyconf 19

Keyconf 19

Host: UK Research and Innovation, Science and Technology Facilities Council, Hartree Centre

Date: 12 and 13 Jun 2019 (2 days)

Venue: STFC Hartree Centre, Sci-Tech Daresbury, Warrington, United Kingdom

Web site: <https://www.hartree.stfc.ac.uk/Pages/KeyConf.aspx> (dead link)

Participants: about 20 people (including Stian, Marek and me)

Registration Fee: nothing

Program: 12 talks and 4 unconferences

END