

@Web Conference
3 January 2024

OAuth SIG Community 7th Meeting (52nd from ex-FAPI-SIG)

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Completed working items of security features

DPoP

Completed

■ Status: Completed

Keycloak 23 supported DPoP as a preview feature.

Blog: <https://www.keycloak.org/2023/11/keycloak-2300-released>

This working item was completed for a moment though there still be the task to make DPoP officially supported.

FAPI 2.0

Completed

■ Status: Completed

Keycloak 23 supported the following FAPI 2.0 specifications:

- FAPI 2.0 Security Profile Second Implementer's Draft
- FAPI 2.0 Message Signing First Implementer's Draft

Blog: <https://www.keycloak.org/2023/11/keycloak-2300-released>

■ Conformance Test

Keycloak 23 passed the conformance tests for FAPI 2.0 specifications above.

Results: <https://github.com/keycloak/kc-sig-fapi?tab=readme-ov-file#passed-conformance-tests-per-keycloak-version>

This working item was completed for a moment.

The item would be re-opened when the FINAL version of these FAPI 2.0 specifications are released.

Ongoing working items of security features

Passkeys (Multi-Device FIDO Credentials)

■ Status: In progress

Keycloak 23 start supporting passkeys as a preview feature.

■ Discussion

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

■ Implementation

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

2 of 4 issues were resolved

Issue - Conditional UI : <https://github.com/keycloak/keycloak/issues/24264>

Ongoing PR : <https://github.com/keycloak/keycloak/issues/23659>

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/>
- passkeys.io : <https://www.passkeys.io/>

OAuth 2.1

■ Status : In progress

Epic issue: <https://github.com/keycloak/keycloak/issues/25141>

1 of 4 issues is resolved. Others are in progress.

- Client policies: executor for validate and match a redirect URI Draft PR sent
- Supporting OAuth 2.1 for confidential clients Draft PR sent
- Client policies : executor for enforcing DPoP Completed
- Supporting OAuth 2.1 for public clients Draft PR sent

■ Discussion

<https://github.com/keycloak/keycloak/discussions/24043>

Lightweight Token

■ Status: Completed partially

3 of 4 follow-up issues are in progress.

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

Ongoing PR: <https://github.com/keycloak/keycloak/issues/23724>

PR sent

■ 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>

Edwards-curve Digital Signature Algorithm (EdDSA)

■ Status: In progress

Working for resolving review comments.

■ 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
Issue: <https://github.com/keycloak/keycloak/issues/15714>
PR: <https://github.com/keycloak/keycloak/pull/17215>

PR sent

OpenID Connect for Identity Assurance 1.0 (OIDC4IDA)

■ Status: In progress

Waiting for discussion and review.

■ 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>

Emerging working items of security features

OpenID Connect for Verifiable Credentials (OID4VCs)

■ Immediate goal

Keycloak can work as an issuer of VCs.

■ 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>

OpenID Connect for Verifiable Credentials (OID4VCs)

■ Breakout sessions

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

3rd : 13 Dec (<https://github.com/keycloak/kc-sig-fapi/tree/main/OAuth-SIG/Breakouts/OID4VCs/3rd>)

4th : 20 Dec (<https://github.com/keycloak/kc-sig-fapi/tree/main/OAuth-SIG/Breakouts/OID4VCs/3rd>)

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

Keycloak DevDay 2024 Germany

Site: <https://keycloak-day.dev/>

Announcement: <https://www.keycloak.org/2023/12/keycloak-dev-day-24>

22 Feb 2024, Frankfurt, Germany

Keyconf 24

How about holding a community meeting Keyconf 24 in 2024?

Date and Time: 1 day the same as Keyconf 23?

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