

@Web Conference  
3 April 2024

# OAuth SIG Community 10<sup>th</sup> Meeting (55<sup>th</sup> from ex-FAPI-SIG)

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# OAuth Security Workshop 2024

# OAuth Security Workshop 2024

- Web Site: <https://oauth.secworkshop.events/osw2024/>
- Program: <https://oauth.secworkshop.events/osw2024/agenda-wednesday-osw-2024/>  
<https://oauth.secworkshop.events/osw2024/agenda-thursday-osw-2024/>  
<https://oauth.secworkshop.events/osw2024/agenda-friday-osw-2024/>
- Date: 10 - 12 April 2024
- Venue: Auditorium Antonianum, Rome, Italy
- Keycloak related sessions:
  - *Supporting OAuth 2.0 Based Security Profiles to Open-source Software - from Implementation to Operation*  
*Takashi Norimatsu, Hitachi, Ltd.*

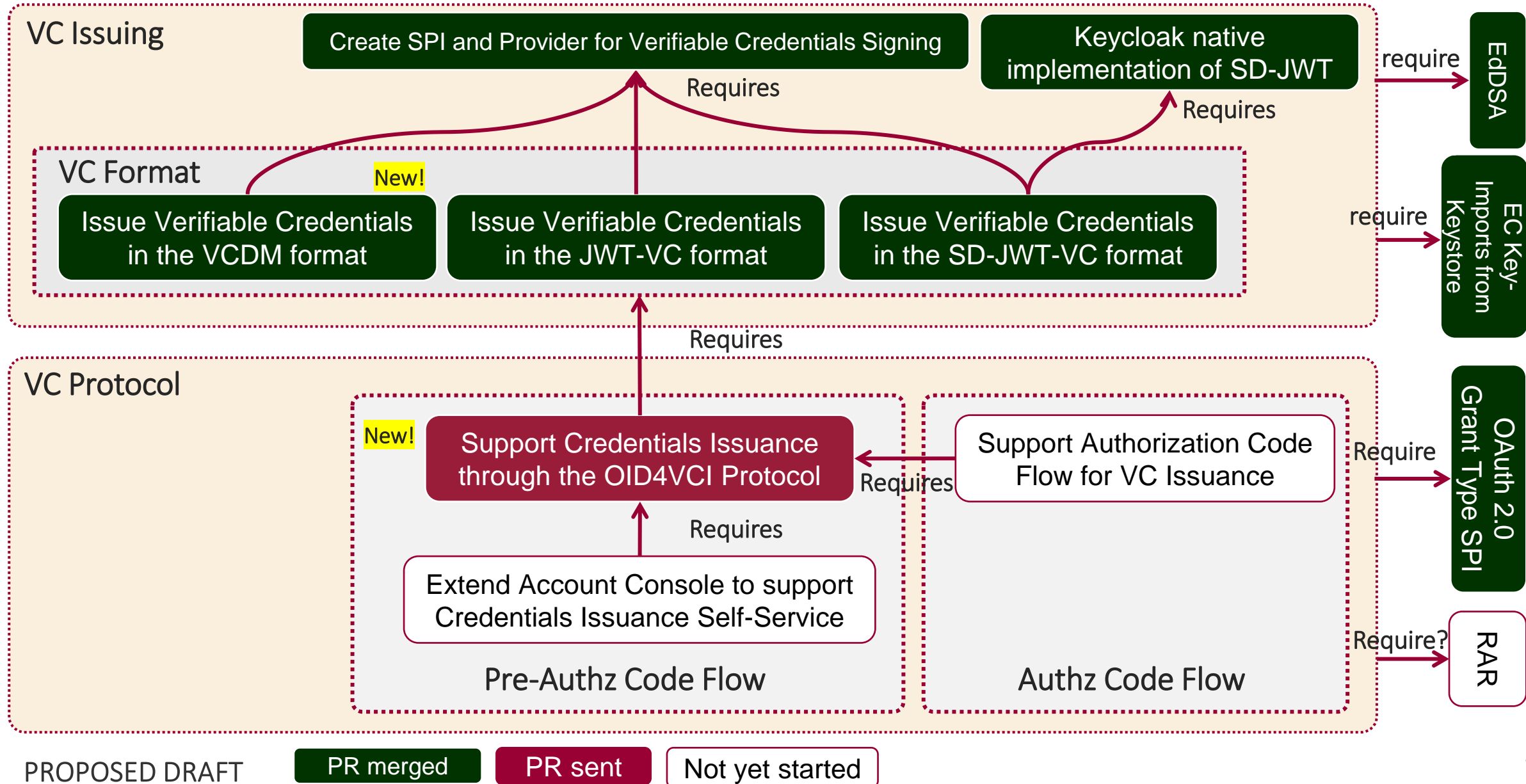
# Ongoing working items of security features

# OpenID Connect for Verifiable Credentials (OID4VCs)

In Progress

- Immediate goal: Keycloak can work as an issuer of VCs.
- Status: 6 out of all 9 issues were resolved. 1 PR submitted (1 PR was newly submitted)  
Holding its breakout sessions weekly.
- Discussion: OpenID for Verifiable Credential Issuance
  - <https://github.com/keycloak/keycloak/discussions/17616>
- Design: OpenID Verifiable for Credential Issuance
  - <https://github.com/keycloak/keycloak-community/blob/main/design/OID4VCI.md>
- Epic issue : Support OpenID for Verifiable Credentials(OID4VC)
  - <https://github.com/keycloak/keycloak/issues/25936>

# OpenID Connect for Verifiable Credentials (OID4VCs)



# OpenID Connect for Verifiable Credentials (OID4VCs)

## ■ Breakout sessions

11<sup>st</sup> : 13 Mar (<https://github.com/keycloak/kc-sig-fapi/tree/main/OAuth-SIG/Breakouts/OID4VCs/11st>)

12<sup>nd</sup> : 20 Mar (<https://github.com/keycloak/kc-sig-fapi/tree/main/OAuth-SIG/Breakouts/OID4VCs/12nd>)

13<sup>rd</sup> : 27 Mar (<https://github.com/keycloak/kc-sig-fapi/tree/main/OAuth-SIG/Breakouts/OID4VCs/13rd>)

## ■ Follow-up

- RFC 9396 OAuth 2.0 Rich Authorization Requests (RAR)
- [Internet Draft] OAuth 2.0 Attestation-Based Client Authentication



# Recall: Rich Authorization Request (RAR)

■ Status : stopped?

■ Discussion

- <https://github.com/keycloak/keycloak/discussions/8532>

■ Design

- <https://github.com/keycloak/keycloak-community/pull/325>

■ Epic Issue

- <https://github.com/keycloak/keycloak/issues/9225>

# Passkeys (Multi-Device FIDO Credentials)

In Progress

## ■ Status: In progress

Keycloak 23 start supporting passkeys as a preview feature.

## ■ Discussion

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

## ■ Epic Issue

- <https://github.com/keycloak/keycloak/issues/23656>

**2 of 6 issues were resolved**

## ■ Implementation

- Refactoring JavaScript code of WebAuthn's authenticators to follow the current Keycloak's JavaScript coding convention

Merged

<https://github.com/keycloak/keycloak/pull/27239>

- Passkeys: Supporting WebAuthn Conditional UI

In Progress

<https://github.com/keycloak/keycloak/pull/24305>

# 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/>

# Token Exchange

In Progress

- Goal: Officially supported (currently it is a preview feature)
- Status: In progress
- Discussion: When token-exchange will become productive feature from preview feature
  - <https://github.com/keycloak/keycloak/discussions/23937>
  - <https://github.com/keycloak/keycloak/discussions/26502> (gathering use-cases)
- Breakout sessions: 17 Jan
  - The current Keycloak does not fully comply with its RFC.
  - One option is to newly implement Token Exchange feature as a SPI provider to fully comply with the RFC.
- Resources:
  - Specification: RFC 8693 OAuth 2.0 Token Exchange
    - <https://datatracker.ietf.org/doc/html/rfc8693>
  - Keycloak's implementation
    - [https://www.keycloak.org/docs/latest/securing\\_apps/index.html#\\_token-exchange](https://www.keycloak.org/docs/latest/securing_apps/index.html#_token-exchange)

# OpenID Connect for Identity Assurance 1.0 (OIDC4IDA)

Nothing  
Progress

## ■ 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](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>

# Community Event

# Keyconf 24

- Objective: How about holding a community meeting Keyconf 24 in 2024?
- Date and Time: 1 day, Sep 12nd or 19th?
- Venue: ? Prague/Czech, Vienna/Austria, Frankfurt/Germany, Dublin/Ireland
- Sponsor: ?
- Program: ?
- Cost: ? 6,000 - 10,000 EUR (We already had some sponsors)

# 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