

@Web Conference  
22<sup>nd</sup> May 2024

# OAuth SIG OID4VC Breakout 19<sup>th</sup> Session

# Table of Contents

Status

Main Issues

RAR

Proposal: Cloud Wallet

- Immediate Goal: Keycloak can work as an issuer of VCs
- Status: 8 out of 12 issues are resolved.
- 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>

Main Issue: <https://github.com/keycloak/keycloak/issues/25936>

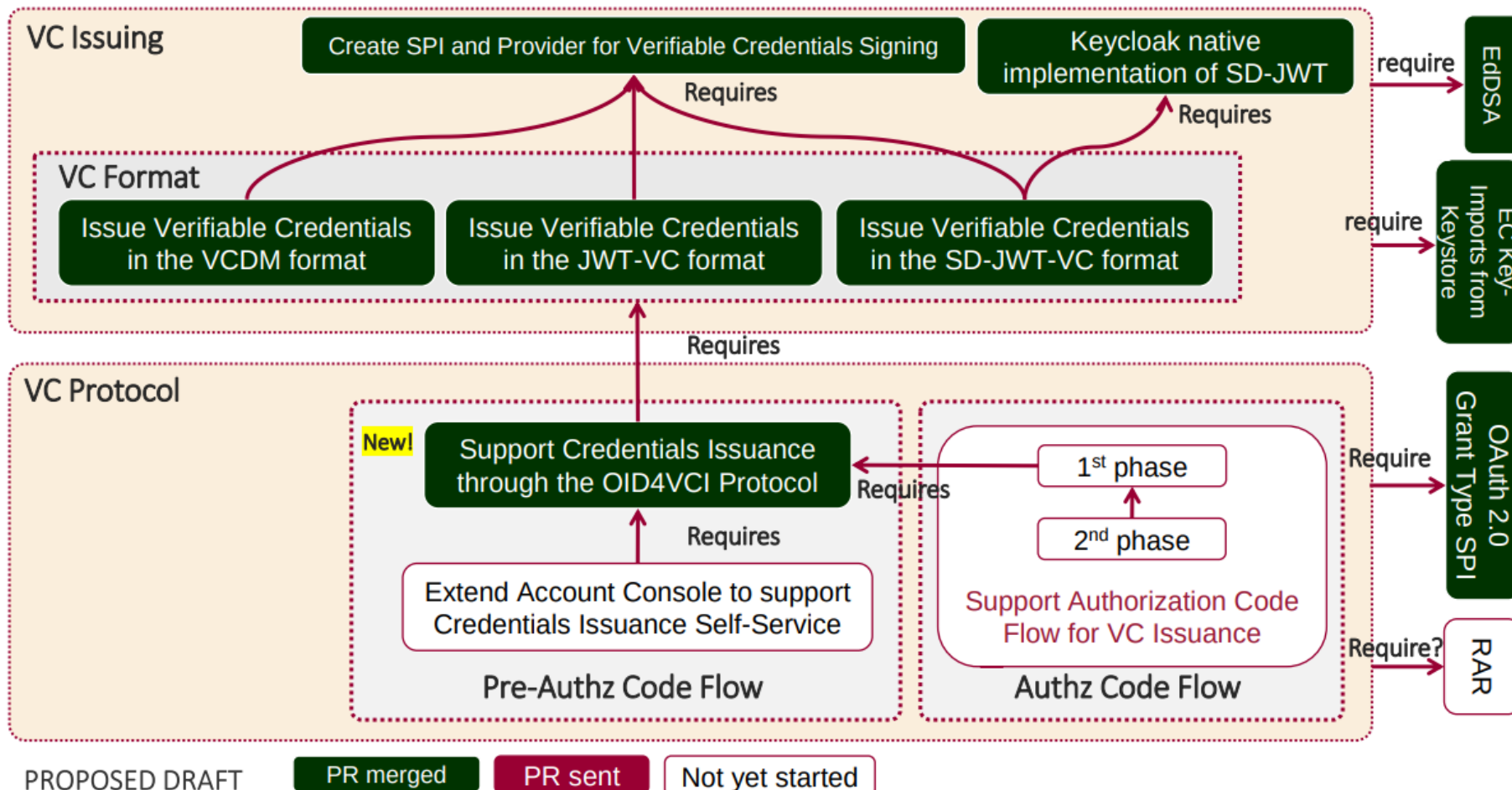
- [✔ Create SPI and Provider for Verifiable Credentials Signing #25937](#)
- [✔ Support Credentials Issuance through the OID4VCI Protocol #25940](#)
- [✔ Issue Verifiable Credentials in the JWT-VC format #25941](#)
- [✔ Issue Verifiable Credentials in the SD-JWT-VC format #25942](#)
- [✔ Issue Verifiable Credentials in the VCDM format #25943](#)
- [✔ Keycloak native implementation of SD-JWT #25638](#)
- [✔ Support EC Key-Imports for the JavaKeyStoreKeyProvider #26936](#)
- [✔ Grant urn:ietf:params:oauth:grant-type:pre-authorized\\_code enabled even if oid4vc\\_vci feature is disabled #28968](#)
- [🔄 Extend Account Console to support Credentials Issuance Self-Service #25945](#)
- [🔄 Support Authorization Code Flow for VC Issuance #26328](#)
- [🔄 JWSBuilder when used directly with AsymmetricSignatureSignerContext produces non compliant ECDSA signed JWT #29309](#)
- [🔄 Expose JWT VC Issuer Metadata /.well-known/jwt-vc-issuer to comply with SD-JWT VC Specification #29634](#)
- [🔄 VC issuance in Authz Code flow without considering "scope" parameter #29724](#)
- [🔄 VC issuance in Authz Code flow with considering "scope" parameter #29725](#)

*Pull Requests for Review:*

#29685 (issue #29724), #29174 (issue #25945),  
#29333 (issue #29309), #29635 (issue #29634)

# Dependency Graph

## OpenID Connect for Verifiable Credentials (OID4VCs)

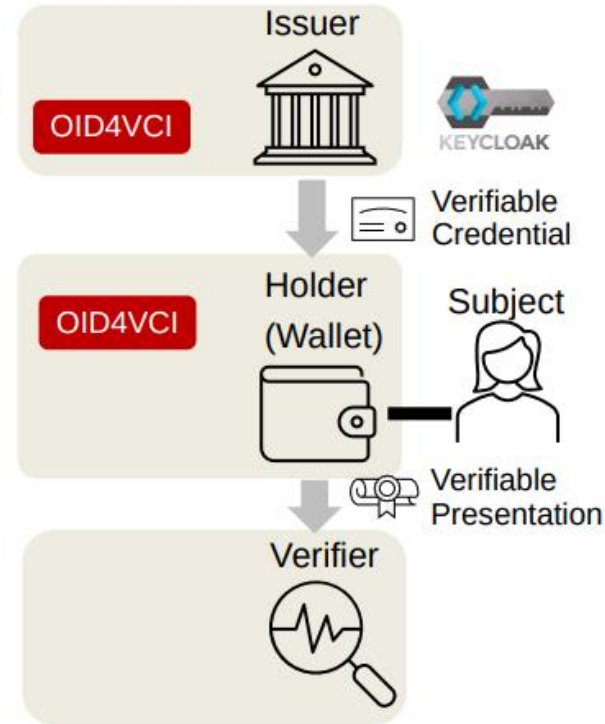


# Rich Authorization Request (RAR)

- 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>

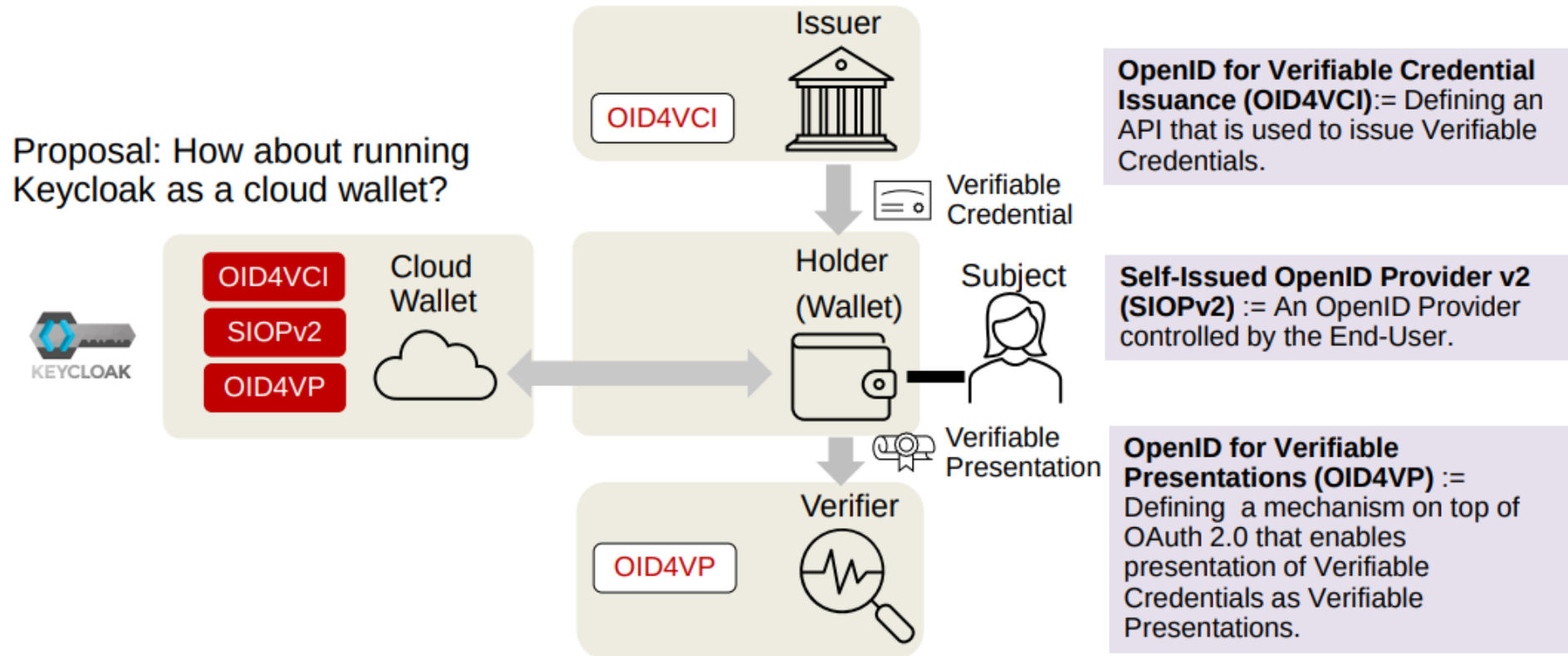
# Proposal: Keycloak as Cloud Wallet

Keycloak's community is working on supporting OID4VCI.



**OpenID for Verifiable Credential Issuance (OID4VCI):** Defining an API that is used to issue Verifiable Credentials.

# Proposal: Keycloak as Cloud Wallet





# Proposal: Keycloak as a Verifier

- Idea: Keycloak consuming VP-Token. Like Keycloak is consuming an Access Token
- Discussion : open
- Design : Open
- Epic Issue : Open

Open Floor