@Web Conference
20 December 2023

OAuth SIG OID4VC Breakout 4th Session

Table of Contents

PROPOSED DRAFT

Package Naming

- Package Naming:
  - ➢ *org.keycloak.protocol.oid4vc.issuance;*
  - ➢ *org.keycloak.protocol.oid4vc.issuance.mappers.[];*
  - ➢ *org.keycloak.protocol.oid4vc.issuance.signing.[vcdm | jwt_vc | sd_jwt_vc]*

  - ➢ *org.keycloak.protocol.oid4vc.model;*
  - ➢ *org.keycloak.protocol.oid4vc.model.[sd_jwt_vc | vcdm];*

- Any Comment?

Main Pull Request

- **Branch: Libraries removed**
  - ➤ *https://github.com/wistefan/keycloak/pull/4;*

- **1st Review available**
  - ➤ *Package naming looks great, class naming to follow*

- **Module Implementation Strategy: LDProof**
  - ➤ *Canonicalization, URDNA2015 (problems?)*
  - ➤ EDDSA, sync with https://github.com/keycloak/keycloak/pull/17215

- **Module Implementation Strategy: SD-JWT**
  - ➤ Prototype in pull request
  - ➤ *Implementation ongoing in keycloak core (https://github.com/adorsys/keycloak-oid4vc/pull/6)*

- **OAuth 2.0 Grant Type SPI**
  - ➤ Alternative to static scopes?

PROPOSED DRAFT

Contribution Hitachi

- **Features**
  - ➢ *Supported Authorization Code Flow for OID4VCI*
  - ➢ *Used static scopes*
  - ➢   (ex. response_type=code&scope= types_packetdeliveryservice format_jwt_vc_json& …)
  - ➢ *VC as result of KC User Authentication*
  - ➢ *Defined and used several custom VC types*
  - ➢ *Demonstrated issuing a VC*
  - ➢   by using VCWallet, Walt.id sever, and Keycloak with customized keycloak-vc-issuer

- **Contribution Plan**

Roadmap

- Dec 2023

- Jan 2024

- Feb 2024

END