OAuth SIG Community 18th Meeting

(63rd from ex-FAPI-SIG)

@Web Conference

4 December 2024

PROPOSED DRAFT

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Community Event

KeyConf 25

Ongoing

OpenID Connect for Verifiable Credentials (OID4VCs)

- Epic issue:
  - [1] [OID4VCI] Approaching Credential Scope based API design
    https://github.com/keycloak/keycloak/issues/32961
    Status: 3 out of all 11 issues were resolved. (3 newly resolved, 27%)
  - [2] Pre-authorized-code flow of OID4VCI Implementation Shift to Scope-Based Approach within OpenID Connect Protocol
    https://github.com/keycloak/keycloak/issues/32772
    Status: 3 out of all 3 issues were resolved. (3 newly resolved, 100%)

OpenID Connect for Verifiable Credentials (OID4VCs)

- Goal: Keycloak can work as an issuer of VCs. (currently it is an experimental feature)
  - Phase 1: supported as an experimental feature — Completed by KC 25
  - Phase 2: supported as a preview feature — In Progress
  - Phase 3: supported officially
- Discussion: https://github.com/keycloak/keycloak/discussions/17616
- Design: https://github.com/keycloak/keycloak-community/blob/main/design/OID4VCI.md
- Guide: adorsys/keycloak-ssi-deployment
- Breakout sessions

31st : 13 Nov (https://cloud-native.slack.com/archives/C05KR0TL4P8/p1731500508174389)
32nd : 20 Nov (https://hackmd.io/@keycloak-oauth-sig/BJ8yb8ofJe)
33rd : 27 Nov (https://hackmd.io/@keycloak-oauth-sig/Hy-3jt4mke)

Demonstrating Proof-of-Possession (DPoP)

- Goal: Officially supported (currently it is a preview feature)
- Status: In progress

Keycloak 23 starts supporting DPoP as a preview feature.

- Epic issue
  - https://github.com/keycloak/keycloak/issues/22311
- Status: 5 of 8 issues were resolved (+2 issue added, +3 newly resolved, 62.5%)
  - Keycloak needs to return "invalid_request" from Token Endpoint if a token or refresh request lacks DPOP proof

    https://github.com/keycloak/keycloak/issues/34842
  - Authorization Code Binding to a DPoP Key and DPoP with Pushed Authorization Requests

    https://github.com/keycloak/keycloak/issues/34990
  - Make sure DPoP is passing with official OIDC testsuite

    https://github.com/keycloak/keycloak/issues/31970

OpenID Federation 1.0

■ Motivation

- Enabling Automatic Registration of Clients within the European ecosystem:
  Payment Service Directive (PSD), Payment Services Regulation (PSR), Financial Data Access (FIDA)
- In research & education field, eduGAIN's OpenID Federation profile support.

■ Specification (Implementer's Draft)

- https://openid.net/specs/openid-federation-1_0.html

■ Discussion

- https://github.com/keycloak/keycloak/discussions/31027

Some SIG members are working on it.
- prepared an intermediate authority and trust anchor
- confirmed that a client can be registered to Keycloak by its trust chain.
- confirmed that removing clients that are not used by a batch does not work.

Shared Signals Framework (SSF)

Motivation

Some major platform vendors supported/required it:

- Apple Business Manager, Apple School Manager
- Google Cross-Account Protection (RISC)

Standardization Body

OpenID Foundation - Shared Signals Working Group

Specification (Implementer's Draft)

- SSF: https://openid.net/specs/openid-sharedsignals-framework-1_0-ID3.html
- CAEP: https://openid.net/specs/openid-caep-interoperability-profile-1_0-ID1.html
- RISC: https://openid.net/specs/openid-risc-profile-specification-1_0.html

Discussion

Support RISC and CAEP events / Shared Signals and Events #14217

Some SIG members are working on it.

- PoC for a transmitter.

https://github.com/thomasdarimont/keycloak/tree/poc/shared-signals/services/src/main/java/org/keycloak/protocol/ssf

PROPOSED DRAFT

Standing Still

Token Exchange

- Goal: Officially supported (currently it is a **preview** feature)
- Status: In progress

  Keycloak (unknown version) supported token exchange as a **preview** feature.
- Epic issue
  - https://github.com/keycloak/keycloak/issues/31546
- Status:

  Standard token exchange 3 out of 19 issues were resolved.

  Federated token exchange: 0 out of 11 issues were resolved.

  Impersonation: 0 out of 3 issues were resolved
- Discussion
  - https://github.com/keycloak/keycloak/discussions/26502

Passkeys (Multi-Device FIDO Credentials)

- Status: Goal: Officially supported (currently it is a **preview** feature)
- Status: In progress

  Keycloak 23 starts supporting passkeys as a **preview** feature.

- Discussion
  - https://github.com/keycloak/keycloak/discussions/16201
- Epic Issue: 7 of 14 issues were resolved (no progress)
  - https://github.com/keycloak/keycloak/issues/23656
- 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/
  - passkeys futures detection: https://featuredetect.passkeys.dev/

Keeping Watch

OAuth 2.0 for First-Party Applications

- Specification (IETF Internet Draft)
  - https://www.ietf.org/archive/id/draft-parecki-oauth-first-party-apps-00.html
- Status: Some SIG members would work on it.

Transaction Token

- Specification (IETF Internet Draft in OAuth WG)
  - https://datatracker.ietf.org/doc/draft-ietf-oauth-transaction-tokens/
- Status: Some SIG members have PoC and would work on it.
  - https://github.com/dteleguin/tts-demo

OpenID Connect Native SSO for Mobile Apps 1.0

- Overview:

SSO in mobile apps: Share user authentication information among mobile applications installed on the same device.

Current BCP recommends to use a session cookie on a system browser, but some problems:

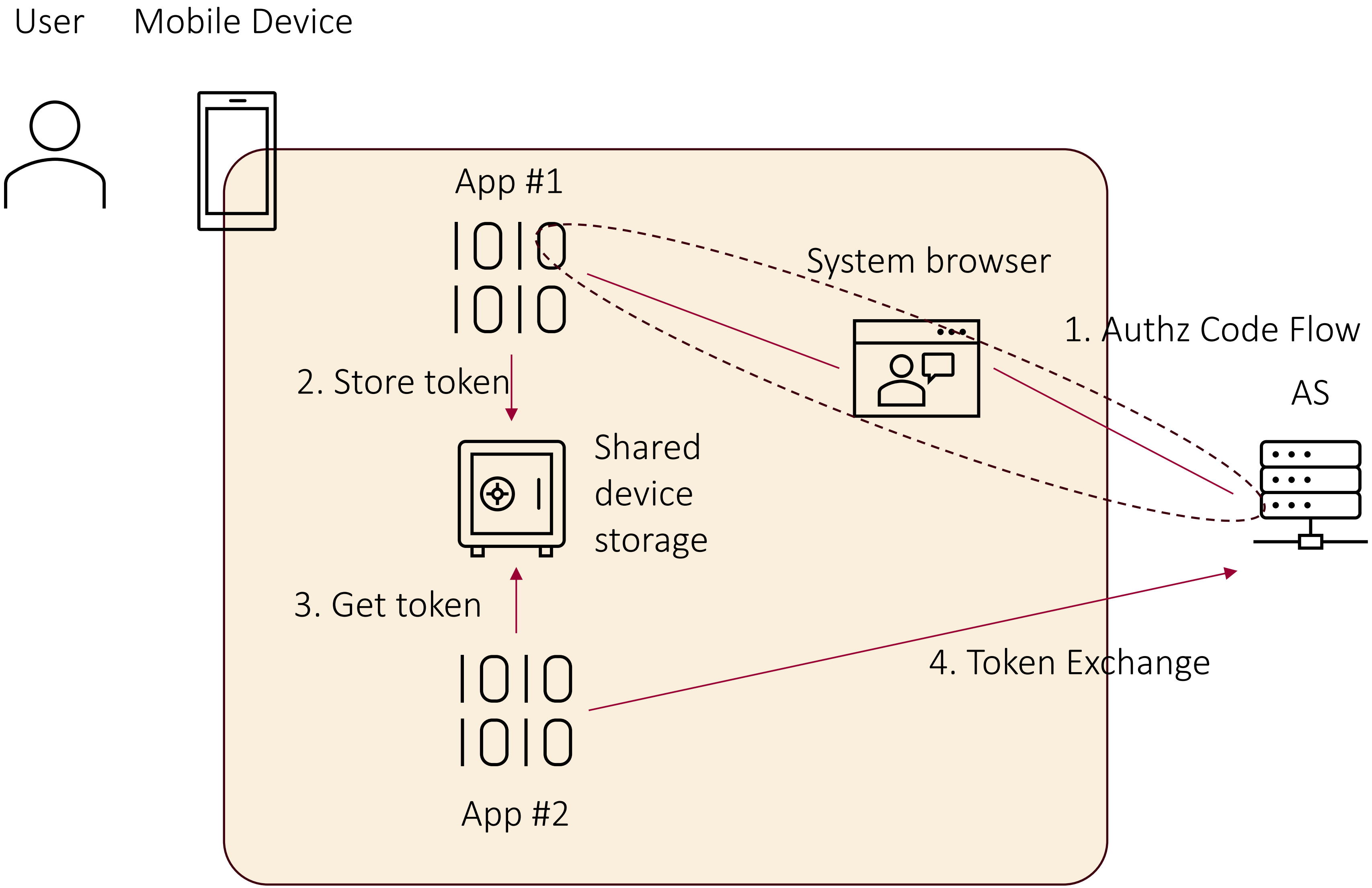
- The session cookie could be deleted by a user.
- The session cookie could not be shared if a user uses private browsing.

To avoid using the session cookie, use token exchange.

It could be one of use-cases of Token Exchange.

- Specification (Implementer's Draft)
  - https://openid.net/specs/openid-connect-native-sso-1_0.html

OpenID Connect Native SSO for Mobile Apps 1.0



PROPOSED DRAFT

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

Community Event

KeyConf 25

- Date: Just before or after OSS Summit Europe 25-27 August 2025 Amsterdam Netherlands
- Venue: Amsterdam, Netherlands 🇳🇱

Discussion Items:

[1] Days: 1 day or 2 days?

[2] Capacity: how many audiences we expect?

[3] Conference format:

- Including unconference session?
- Having multiple sessions in parallel?

[4] Scope:

- Enlarging its scope? (e.g., not only topic about Keycloak, but standards, specifications, market trends)

[5] Registration:

- Requiring a registration fee?

Comments:

- When opening a registration page, it is good if we add a draft version of a conference program to the page in order for potential attendees to decide whether they attend KeyConf 25.

END