FAPI-SIG Community 24th Meeting

@Web Conference

4 Aug 2021

PROPOSED DRAFT

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Major Topics

1st anniversary : results

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PROPOSED DRAFT

Major Topics

Major Topics

- keycloak

  keycloak 15 has been released which supported FAPI-CIBA (ping, poll) and Open Banking Brasil FAPI 1.0.

  https://www.keycloak.org/2021/07/keycloak-1500-released.html

- FAPI-CIBA

  keycloak has supported CIBA ping model.

- Open Banking Brasil FAPI

  Keycloak has supported Open Banking Brasil FAPI 1.0 by keycloak development team.

1ˢᵗ Anniversary : result

1st Anniversary : result

1 year past since 1st FAPI-SIG meeting had held on 4 Aug 2020.

FAPI related accomplishments by FAPI-SIG, other contributors and keycloak development team is as follows.

[Common Security Features]

  <keycloak 14>

  • Client Policies

[Nation/Region/Market Specific Features]

  <keycloak 15>

  • Brazil : Open Banking Brasil Financial-grade API Security Profile

1st Anniversary : result

[Standards]

<keycloak 13>

- Client Initiated Backchannel Authentication (CIBA) poll mode

<keycloak 14>

- FAPI 1.0 Baseline Security Profile
- FAPI 1.0 Advanced Security Profile

<keycloak 15>

- Client Initiated Backchannel Authentication (CIBA) ping mode
- FAPI Client Initiated Backchannel Authentication Profile (FAPI-CIBA)
- FAPI JWT Secured Authorization Response Mode for OAuth 2.0 (JARM)
- OAuth 2.0 Pushed Authorization Requests (PAR)

1st Anniversary : result

[Automated Conformance Test Run Environment]
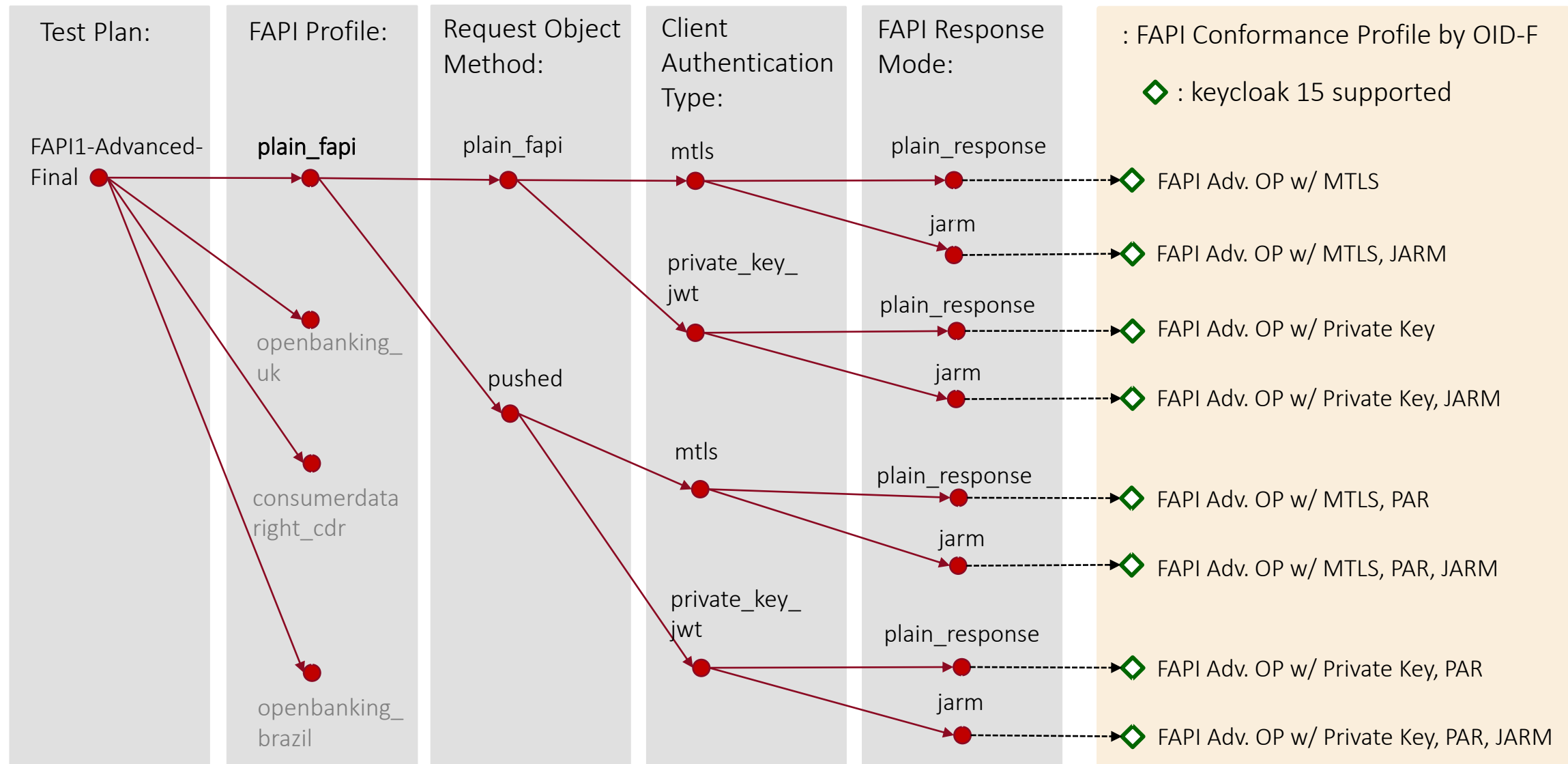
● FAPI 1.0 Advanced (Final)

- Client Authentication Method : MTLS, private_key_jwt

- Signature Algorithm : PS256, ES256

- Request Object Method : plain, PAR

- Response Mode : plain, JARM

● FAPI-CIBA (Implementer's Draft 2)

- Client Authentication Method : MTLS, private_key_jwt

- Signature Algorithm : PS256, ES256
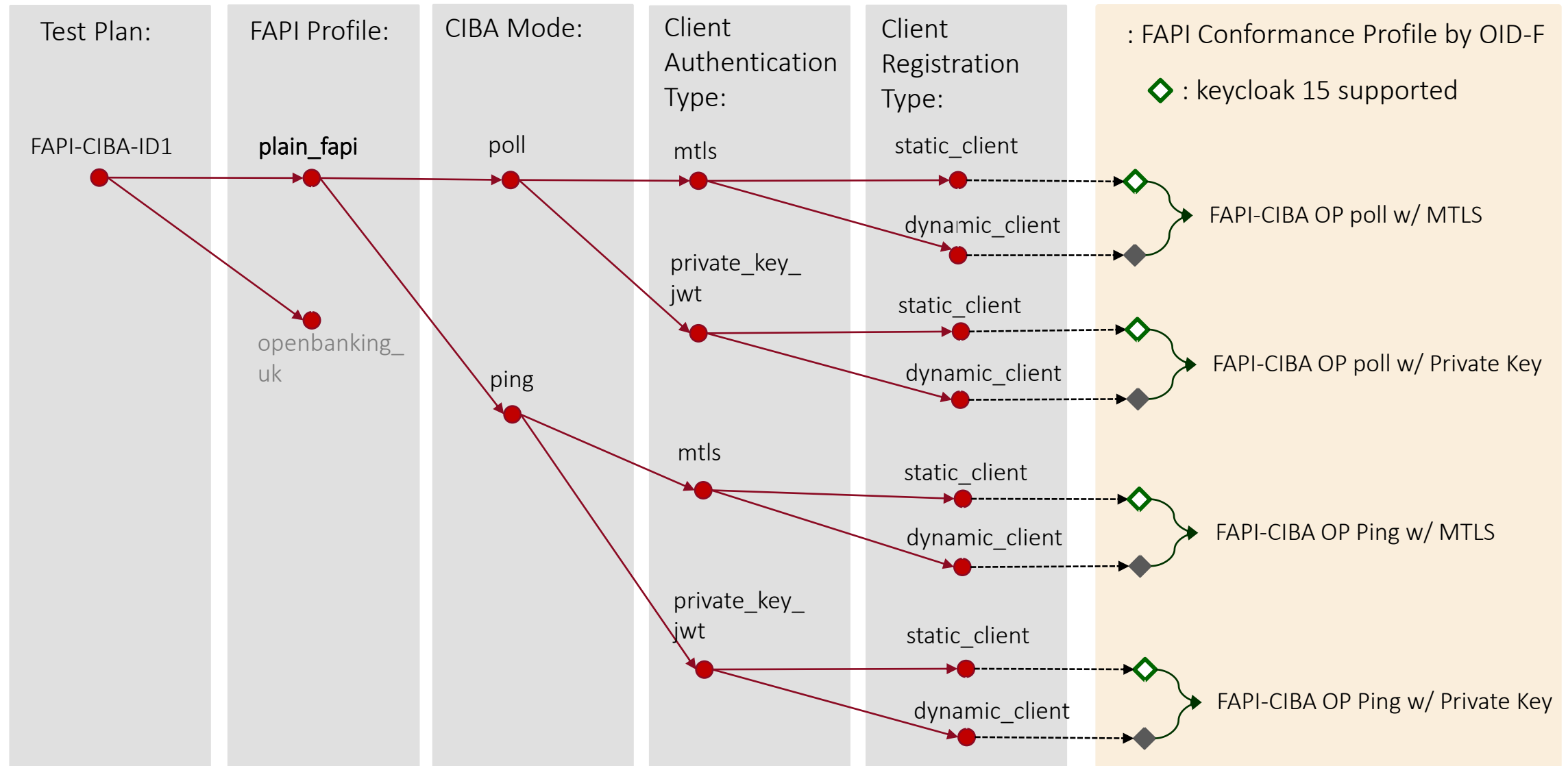
- Mode : Poll, Ping

FAPI1 Advanced Final : Plain FAPI

conformance-suite ver : release-4.1.19

Test Plan:

FAPI1-Advanced-Final

FAPI Profile:

plain_fapi

openbanking_uk

consumerdataright_cdr

openbanking_brazil

Request Object Method:

plain_fapi

pushed

Client Authentication Type:

mtls

private_key_jwt

mtls

private_key_jwt

FAPI Response Mode:

plain_response

jarm

plain_response

jarm

plain_response

jarm

plain_response

jarm

: FAPI Conformance Profile by OID-F

◇ : keycloak 15 supported

◇ FAPI Adv. OP w/ MTLS

◇ FAPI Adv. OP w/ MTLS, JARM

◇ FAPI Adv. OP w/ Private Key

◇ FAPI Adv. OP w/ Private Key, JARM

◇ FAPI Adv. OP w/ MTLS, PAR

◇ FAPI Adv. OP w/ MTLS, PAR, JARM

◇ FAPI Adv. OP w/ Private Key, PAR

◇ FAPI Adv. OP w/ Private Key, PAR, JARM

conformance-suite ver : release-4.1.19

Test Plan:	FAPI Profile:	CIBA Mode:	Client Authentication Type:	Client Registration Type:	: FAPI Conformance Profile by OID-F

◇ : keycloak 15 supported

FAPI-CIBA-ID1 → **plain_fapi** → poll → mtls → static_client ┄┄ ◇ → FAPI-CIBA OP poll w/ MTLS

dynamic_client ┄┄ ◆

private_key_jwt → static_client ┄┄ ◇ → FAPI-CIBA OP poll w/ Private Key

dynamic_client ┄┄ ◆

openbanking_uk

ping → mtls → static_client ┄┄ ◇ → FAPI-CIBA OP Ping w/ MTLS

dynamic_client ┄┄ ◆

private_key_jwt → static_client ┄┄ ◇ → FAPI-CIBA OP Ping w/ Private Key

dynamic_client ┄┄ ◆

Status Updates from 23rd Meeting
FAPI-CIBA

Status Updates from 23rd Meeting
FAPI-CIBA

In Progress   FAPI CIBA Support

JIRA Ticket [Epic] : https://issues.redhat.com/browse/KEYCLOAK-18457

Listed up all works needed to be done. 25 in total.

25 resolved/closed.

It is resolved after keycloak receives FAPI CIBA certificate.

Status Updates from 23rd Meeting
Open Banking Brasil FAPI

Specifications

- Open Banking Brasil Financial-grade API Security Profile 1.0

  Specification : Implementer's Draft 1

  JIRA Ticket (Epic) : KEYCLOAK-18629 OpenBanking Brasil support

- Open Banking Brasil Financial-grade API Dynamic Client Registration 1.0

  Specification : Implementer's Draft 1

  JIRA Ticket (Epic) : NA

Current Keycloak's Status

In Progress   OpenBanking Brazil support

JIRA Ticket [Epic] : https://issues.redhat.com/browse/KEYCLOAK-18629

Listed up all works needed to be done. 17 in total.

16 resolved/closed. 1 in progress.

Working Items Status

Working Items

[Security Features]

<Common>

In Progress   OIDC Client's Public Key Management   🇯🇵 Hitachi

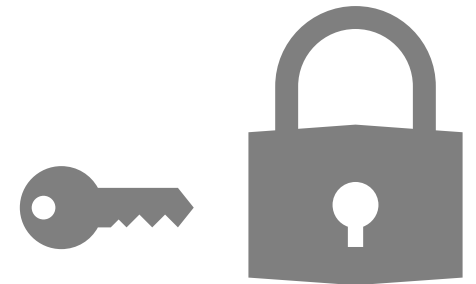   1st phase -> 2nd phase

[Security Features]

<SPA/Native App>

In Progress   OAuth 2.0 Demonstration of   🇬🇧 Backbase

     Proof-of-Possession (DPoP)

[Security Features]

<High Level Security>

● FAPI 2.0 (baseline/advanced)

| In Progress | Rich Authorization Request (RAR) |

Adorsys

| In Progress | Grant Management API |

Adorsys

● FAPI-CIBA

| Completed | Other requirements support |

Hitachi
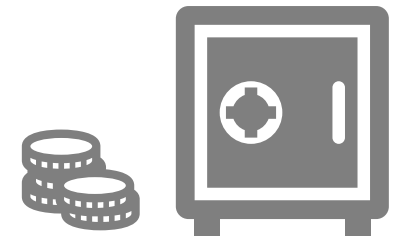
[Market Specific Features]

<PSD2>

● Following eIDAS regulations

In Progress QWAC verification

Adorsys

● Consent Management

<UK OpenBanking>

● Onboarding

• Software Statement Support

• Software Statement Assertion (SSA) Verification

PROPOSED DRAFT

[Market Specific Features]
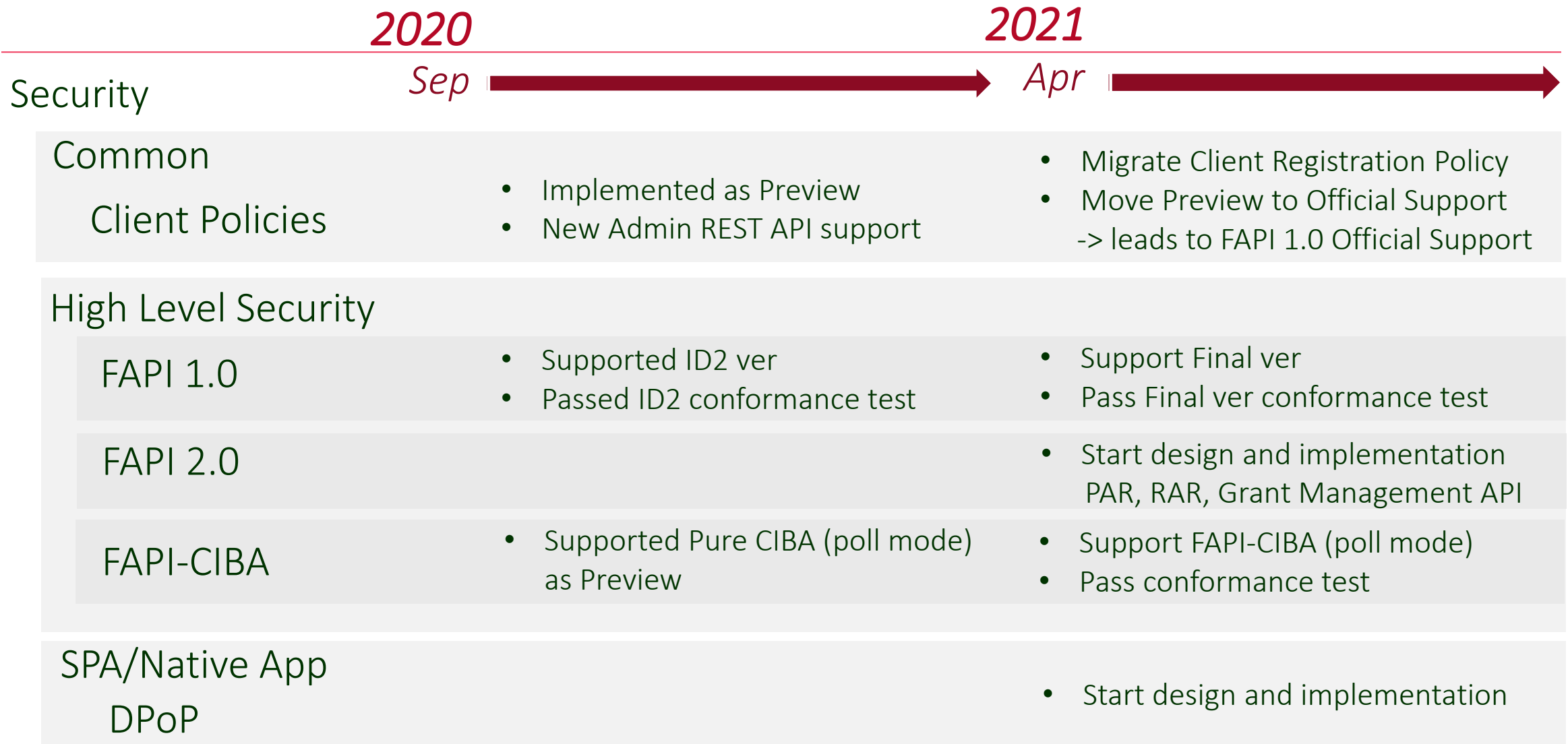
<Open Banking Brasil>

Completed OB-BR FAPI

Red Hat

Roadmap

	2020	2021

Security

Sep ➝ Apr ➝

Common

Client Policies
- Implemented as Preview
- New Admin REST API support

- Migrate Client Registration Policy
- Move Preview to Official Support
  -> leads to FAPI 1.0 Official Support

High Level Security

FAPI 1.0
- Supported ID2 ver
- Passed ID2 conformance test

- Support Final ver
- Pass Final ver conformance test

FAPI 2.0

- Start design and implementation
  PAR, RAR, Grant Management API

FAPI-CIBA
- Supported Pure CIBA (poll mode) as Preview

- Support FAPI-CIBA (poll mode)
- Pass conformance test

SPA/Native App DPoP

- Start design and implementation

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Roadmap

Market Specific

2020   **2021**

Sep →   Apr →

PSD2 🇪🇺
- Discussed QWAC verification
- Start design and implementation QWAC verification

UK OpenBanking 🇬🇧
- Start design and implementation (?) Onboarding

Open Banking Brasil 🇧🇷
- Support OBB FAPI

END