

@Web Conference  
4 Aug 2021

# FAPI-SIG Community 24<sup>th</sup> Meeting

# Table of Contents

Major Topics

1st anniversary : results

Proposal :

Apply for CfP to Devconf.cz 2022 as FAPI-SIG

Status Updates from 23<sup>rd</sup> Meeting

Working Items Status

# 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.

# 1<sup>st</sup> Anniversary : result



# 1st Anniversary : result

1 year past since 1<sup>st</sup> 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






# Keycloak 15 status : FAPI related security profiles

#	 Security Profile Specification	 Conformance Profile of Certified OpenID Provider	 Conformance Test Plan	Keycloak's Status
1	FAPI 1.0 Baseline	-	-	Completed
2	FAPI 1.0 Advanced	FAPI Adv. OP w/ MTLS FAPI Adv. OP w/ Private Key	FAPI1-Advanced-Final	Completed
3	FAPI 1.0 Advanced (PAR)	FAPI Adv. OP w/ MTLS, PAR FAPI Adv. OP w/ Private Key, PAR	FAPI1-Advanced-Final	Completed
4	FAPI 1.0 JARM	FAPI Adv. OP w/ MTLS FAPI Adv. OP w/ Private Key	FAPI1-Advanced-Final	Completed
5	FAPI 1.0 CIBA (poll)	FAPI-CIBA OP poll w/ MTLS FAPI-CIBA OP poll w/ Private Key	FAPI-CIBA-ID1	Completed
6	FAPI 1.0 CIBA (ping)	FAPI-CIBA OP Ping w/ MTLS FAPI-CIBA OP Ping w/ Private Key	FAPI-CIBA-ID1	Completed
7	FAPI 2.0 Baseline	-	-	In Progress
8	FAPI 2.0 Advanced	-	-	Not Yet

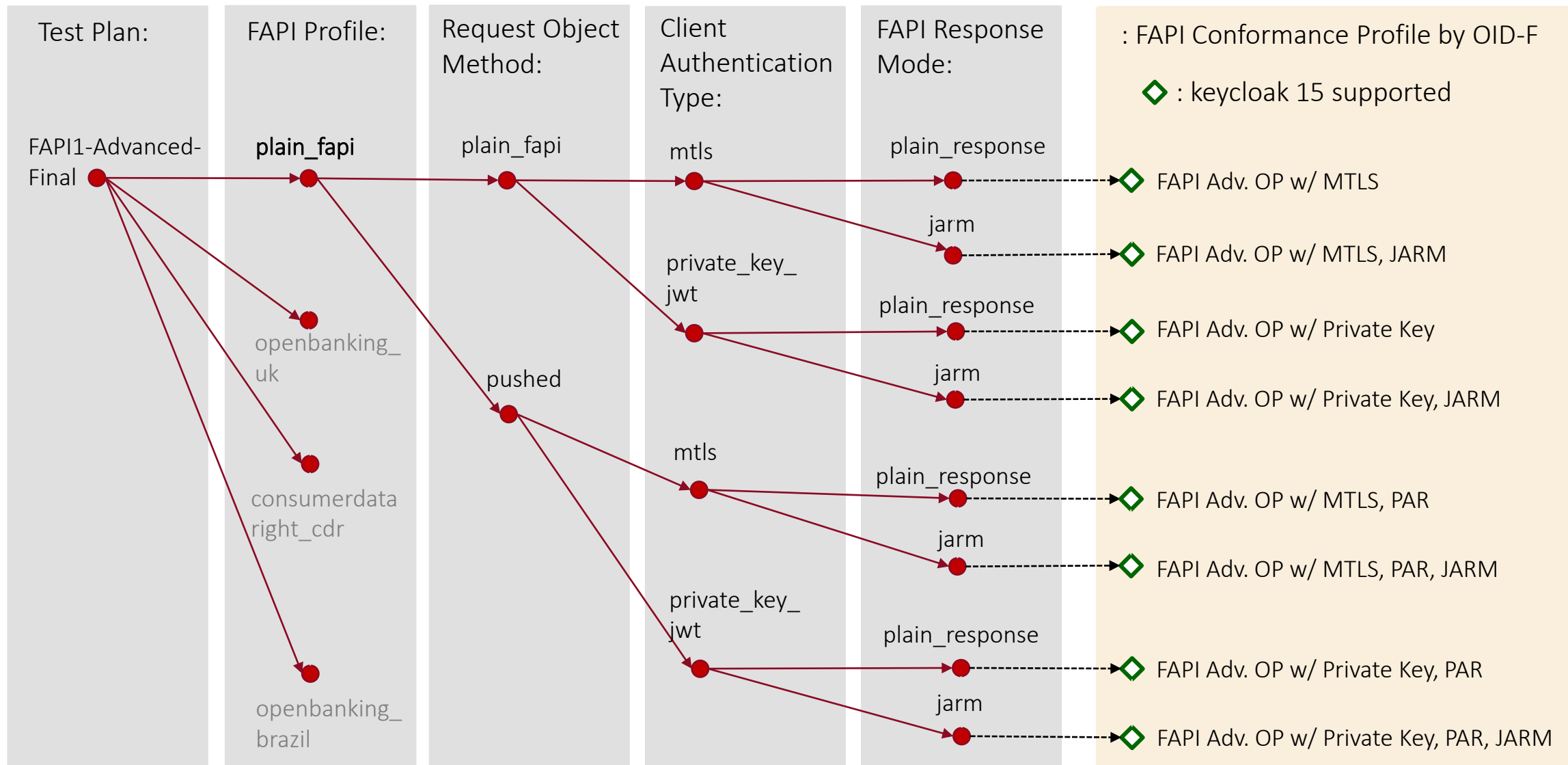
In Progress : some PR sent or being created that can be used to support this security profile.

# Keycloak 15 status : FAPI related security profiles

#	 Security Profile Specification	 Conformance Profile of Certified OpenID Provider	 Conformance Test Plan	Keycloak's Status
9	UK Open Banking	UK-OB Adv. OP w/ MTLS UK-OB Adv. OP w/ Private Key	FAPI1-Advanced-Final	Not Yet
10	Australia CDR	AU-CDR Adv. OP w/ Private Key	FAPI1-Advanced-Final	Not Yet
11	Australia CDR (PAR)	AU-CDR Adv. OP w/ Private Key, PAR	FAPI1-Advanced-Final	Not Yet
12	Brazil Open Banking	-	FAPI1-Advanced-Final	Completed

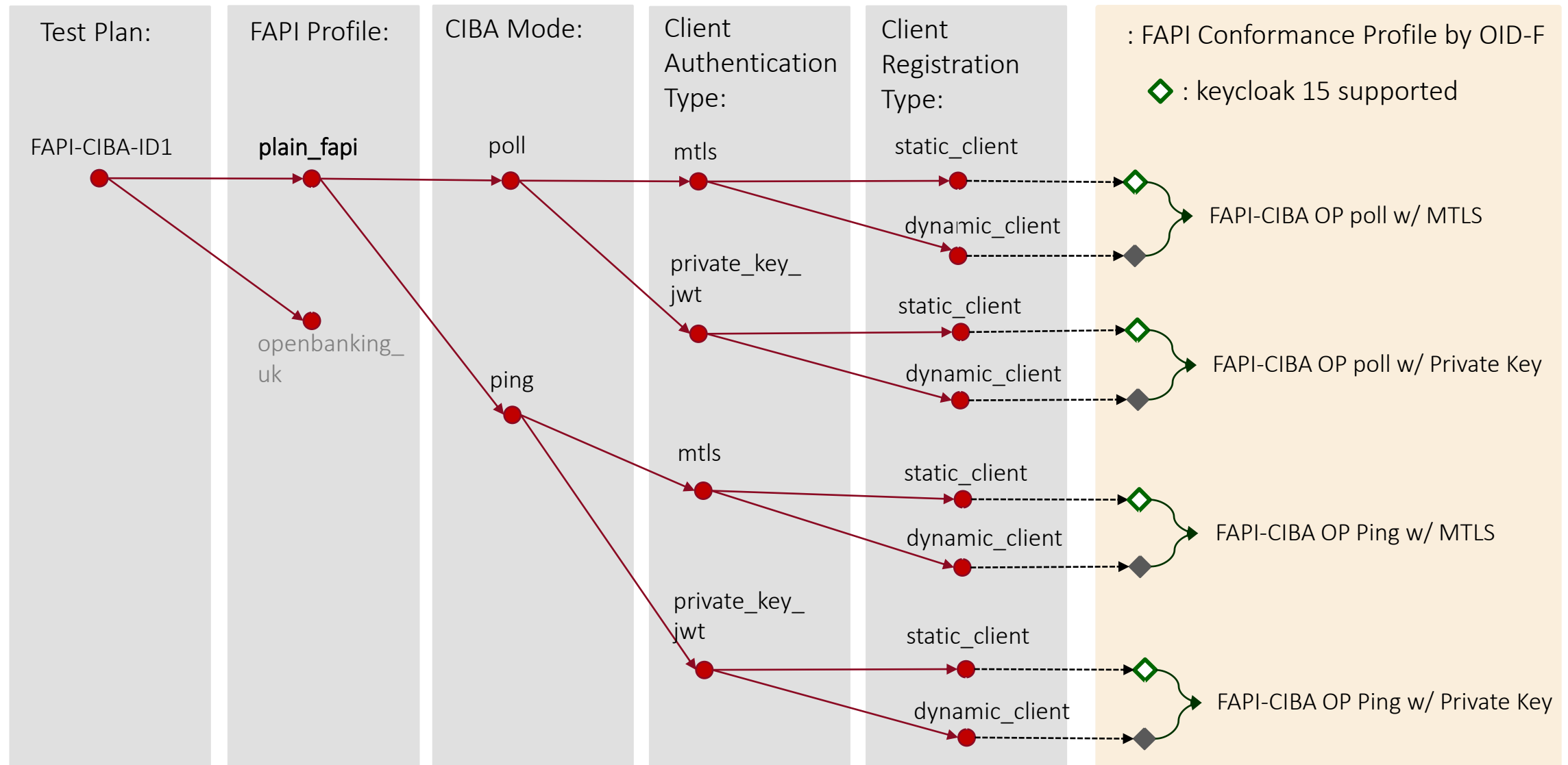
# FAPI1 Advanced Final : Plain FAPI

conformance-suite ver : release-4.1.19





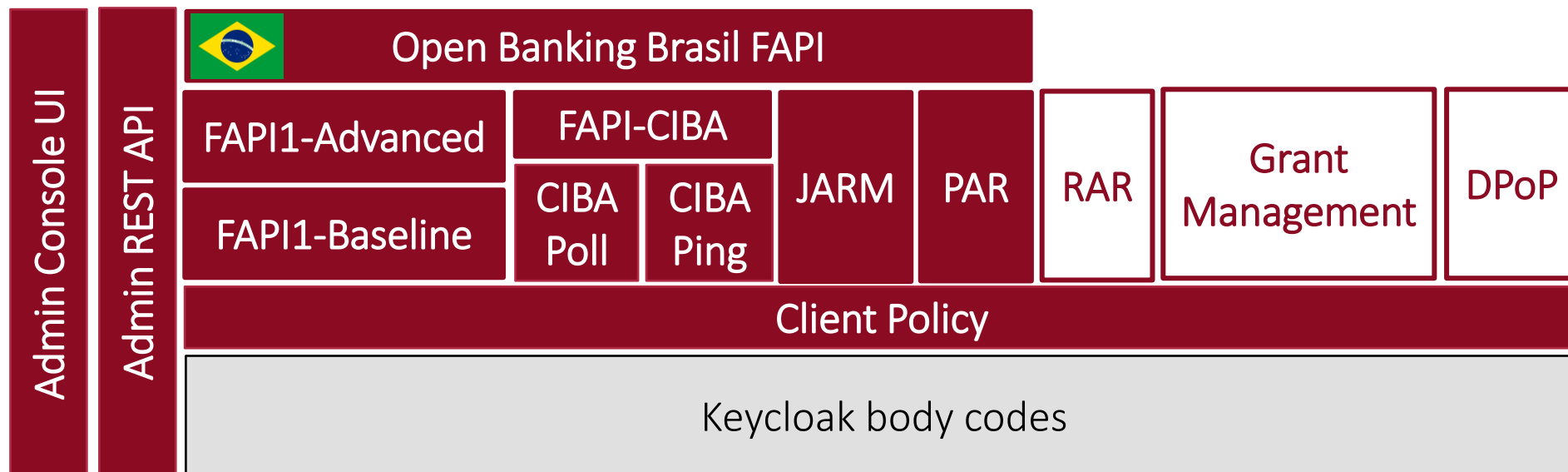
# FAPI CIBA ID1 : Plain FAPI

conformance-suite ver : release-4.1.19



# Security Features Layout

 : Realized by Aug 2021  
 : Proposed in FY 2021



Proposal : Apply for CfP to  
Devconf.cz 2022 as FAPI-SIG

# Presentation in DevConf.cz 2022

How about presenting our activities and achievements to OSS developer's community?

- FAPI-SIG's activity and its contribution to keycloak
- Actual use cases of keycloak using FAPI

DevConf.cz :

<https://www.devconf.info/cz/>

Annual OSS developers event held in Feb on Brno, Czech Republic.

CfP opens	: August, 2021
CfP closes	: October, 2021
First round of acceptance letters	: November 2021
Schedule published	: December, 2021
Registration opens	: December, 2021
Conference dates	: January 28-29, 2022

PROPOSED DRAFT



# Status Updates from 23<sup>rd</sup> Meeting

## FAPI-CIBA



# Current Keycloak's Status

## 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 23<sup>rd</sup> 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.

# Status Updates from 23<sup>rd</sup> Meeting

## FAPI 2.0

# Components of FAPI 2.0 Advanced

In Progress

OAuth 2.0 Rich Authorization Requests (RAR)

 Design Document : <https://github.com/keycloak/keycloak-community/pull/266>

# Status Updates from 23<sup>rd</sup> Meeting

## SPA/Native App

# Holder-of-Key Bound Token in SPA/Native App

In Progress

OAuth 2.0 Demonstrating Proof-of-Possession at the Application Layer (DPoP)



Design Document : <https://github.com/keycloak/keycloak-community/pull/254>



# Working Items Status

# Working Items

[Security Features]

<Common>

**In Progress** OIDC Client's Public Key Management

1<sup>st</sup> phase -> 2<sup>nd</sup> phase



Hitachi

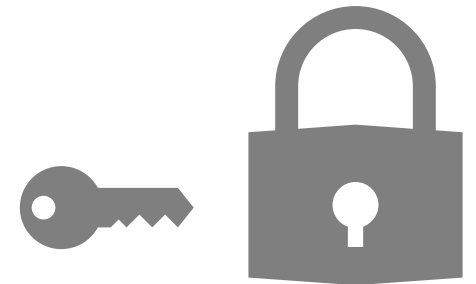
[Security Features]

<SPA/Native App>

**In Progress** OAuth 2.0 Demonstration of  
Proof-of-Possession (DPoP)



Backbase



# Working Items

[Security Features]

<High Level Security>

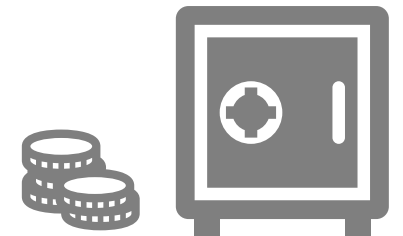
- FAPI 2.0 (baseline/advanced)

**In Progress** Rich Authorization Request (RAR)

**In Progress** Grant Management API


- FAPI-CIBA

**Completed** Other requirements support



# Working Items

## [Market Specific Features]

<PSD2> 

- Following eIDAS regulations

 QWAC verification



- Consent Management

<UK OpenBanking> 

- Onboarding

- Software Statement Support
- Software Statement Assertion (SSA) Verification

# Working Items

[Market Specific Features]

<Open Banking Brasil>

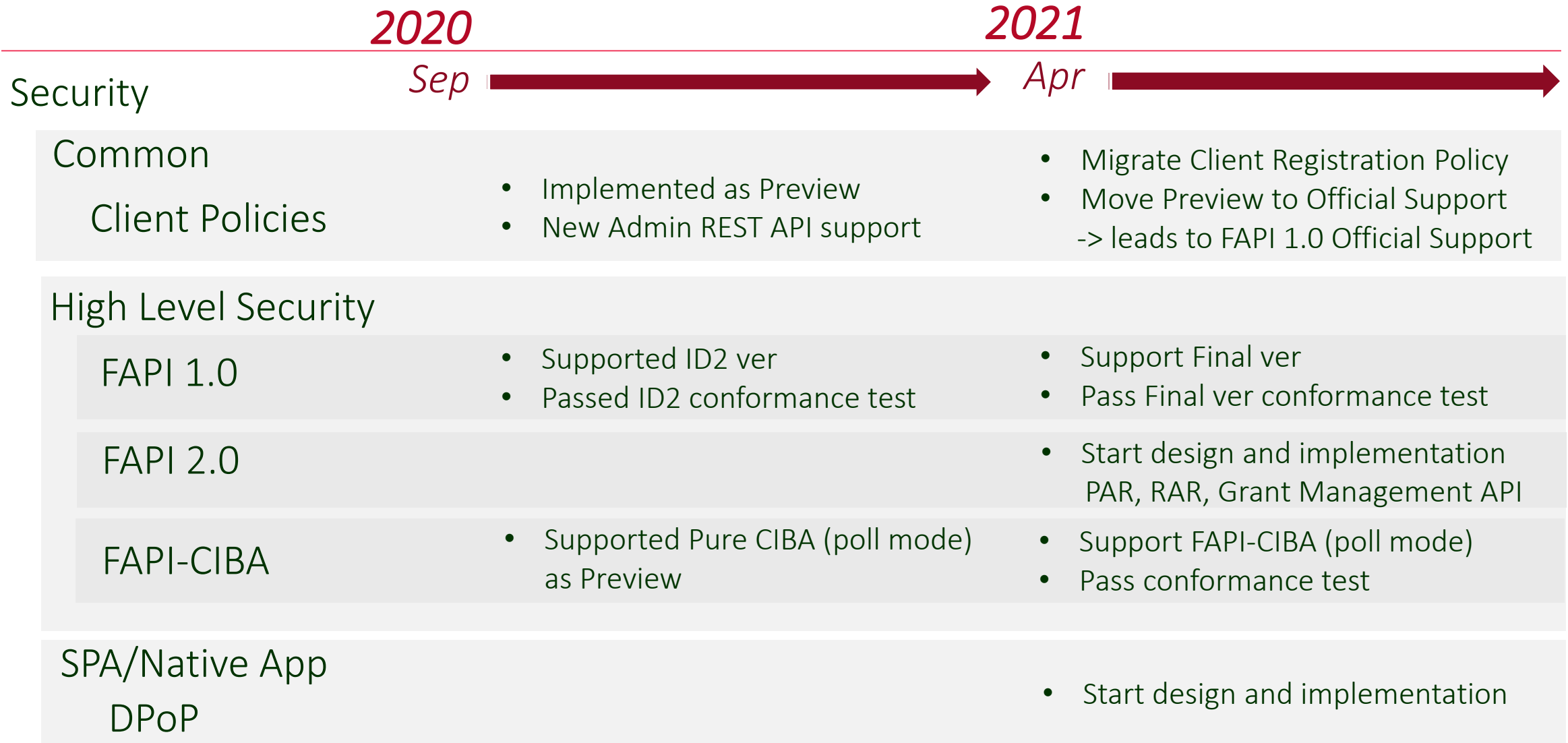
Completed OB-BR FAPI



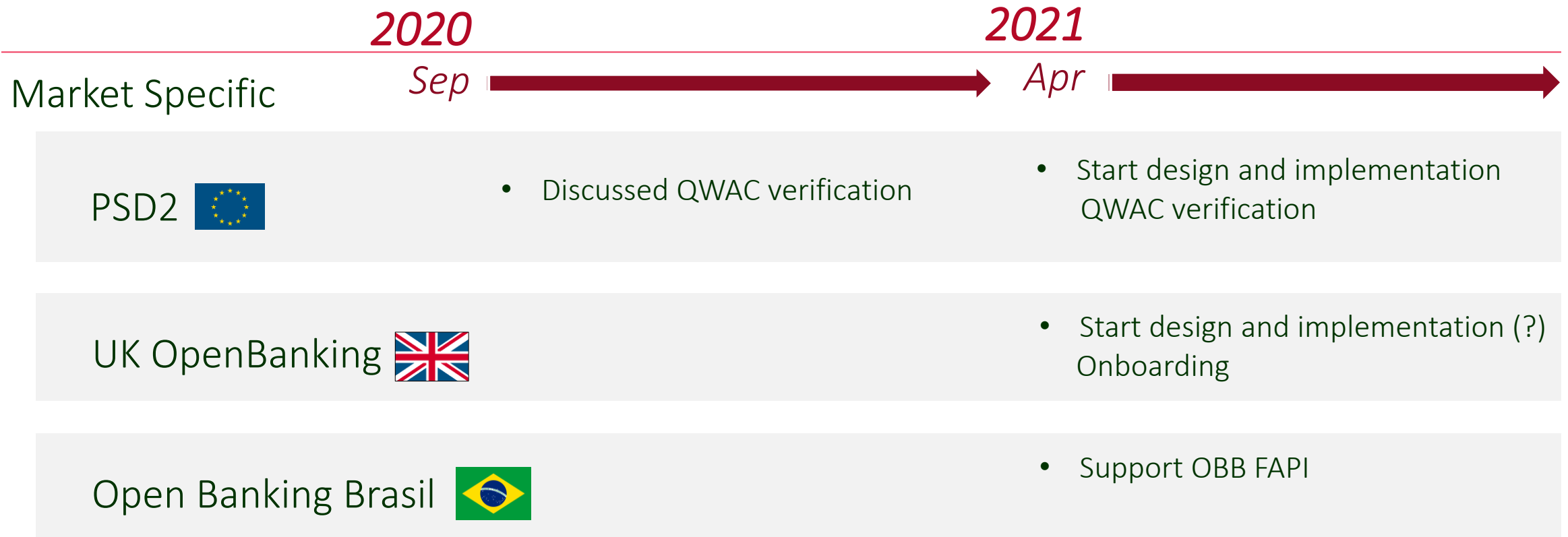
Red Hat



# Roadmap



# Roadmap



END