

@Web Conference
27 Oct 2021

FAPI-SIG Community 29th Meeting

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Major Topics

Discussion :

Revised Client Policies

FAPI 2.0 Baseline

Working Items Status

Major Topics

Major Topics

- Self contained access token specification has been published
RFC 9068 JSON Web Token (JWT) Profile for OAuth 2.0 Access Token
<https://datatracker.ietf.org/doc/html/rfc9068>

Does keycloak need to follow this specification?

Ex. an access token's JOSE header "typ" field should be "at+jwt"

keycloak discussion :

<https://github.com/keycloak/keycloak/discussions/8646>

Discussion : Revising Client Policies

Decide whether a condition/executor is applied or not based on event

[JIRA Ticket]

- KEYCLOAK-19597 Make ClientPolicyContext more rich to avoid editing all conditions/executors when introduce new event type

<https://issues.redhat.com/browse/KEYCLOAK-19597>

[Current Situation]

- A condition and executor decides whether it is applied or not based on an event (ClientPolicyEvent).
- A new event type may be introduced in the future.

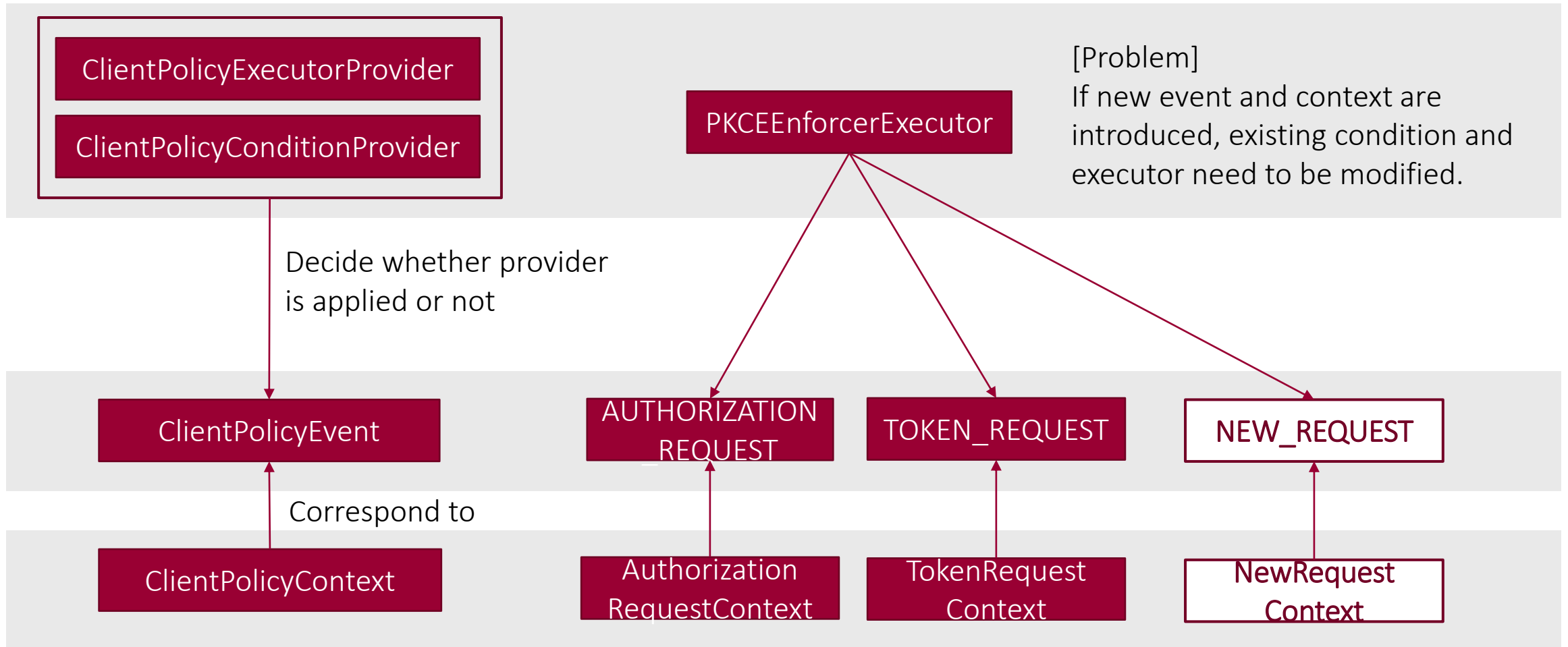
[Problem]

- If new event and context is introduced, existing condition and executor need to be modified.
- > Increasing keycloak maintenance cost.

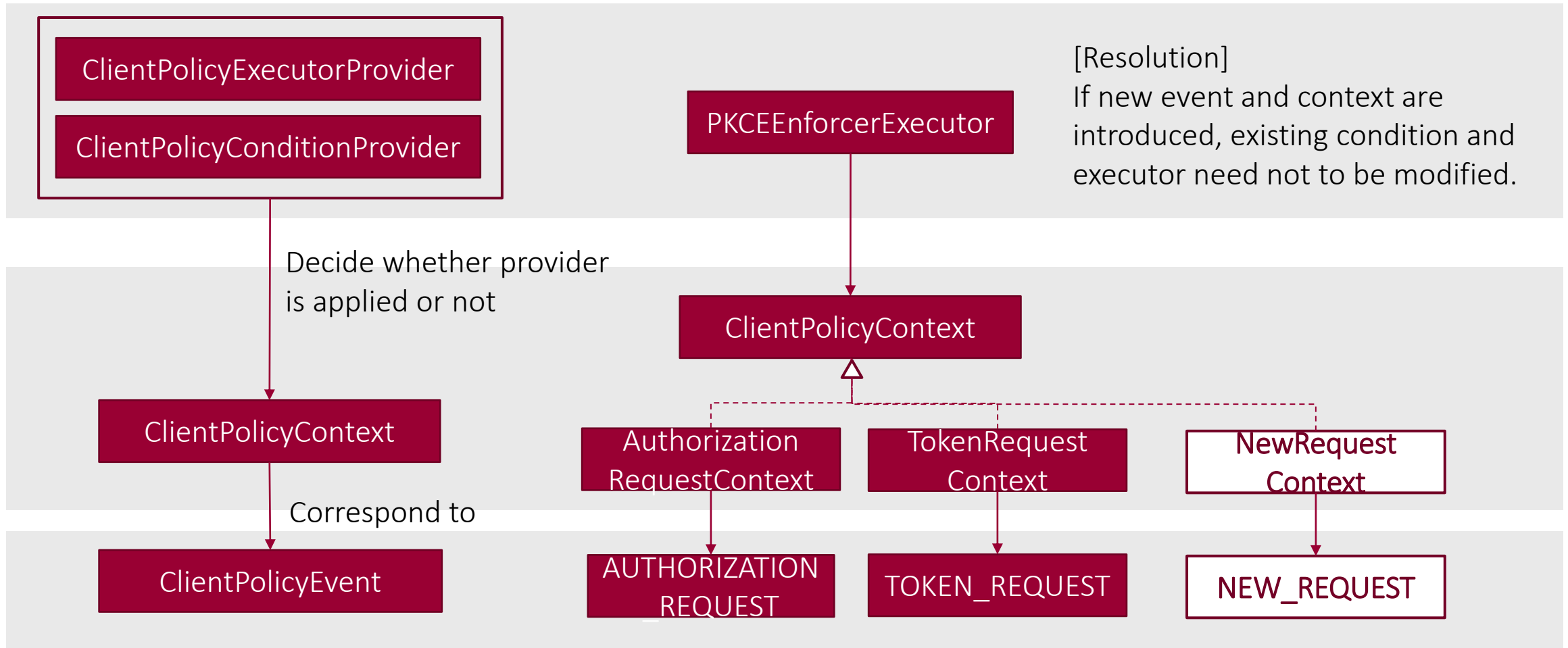
[Solution]

- Introduce context(ClientPolicyContext)'s metadata.
- A condition and executor decides whether it is applied or not based on context(ClientPolicyContext)'s metadata, not directly an event (ClientPolicyEvent).

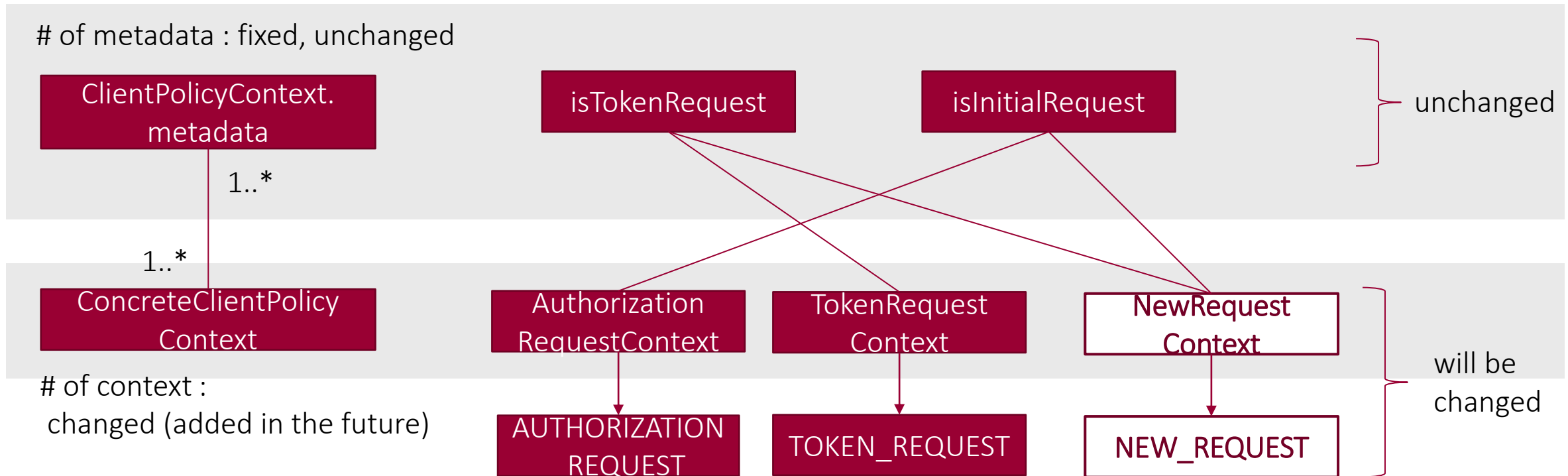
Decide whether a provider is applied or not Based on event



Decide whether a provider is applied or not Based on context's metadata

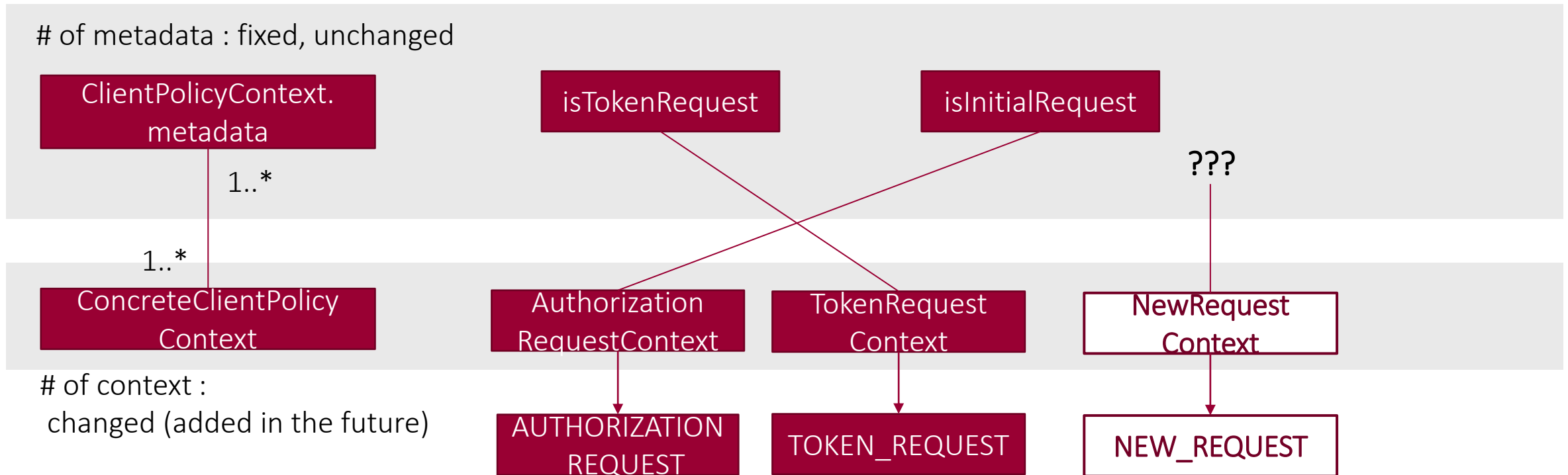


Decide whether a provider is applied or not Based on context's metadata



- Variable part is degenerated to fixed part.
- Part (executor/condition) relying on fixed part remains unchanged.

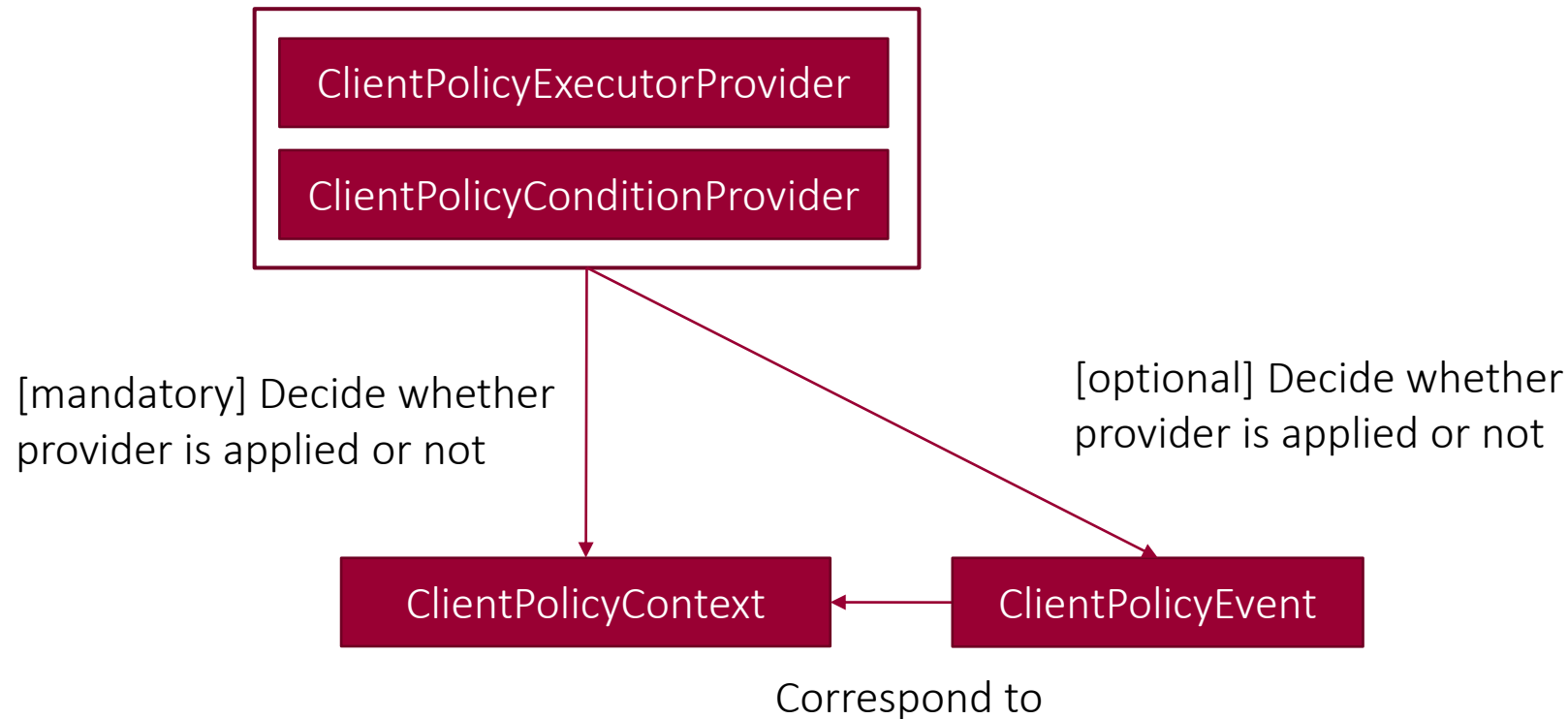
Decide whether a provider is applied or not Based on context's metadata



- Newly added context may not correspond to any context's metadata.

Decide whether a provider is applied or not

Compromise



Discussion : FAPI 2.0 Baseline

FAPI 2.0 Baseline (Draft ver)

Supported #1 : Server Metadata Advertisement

Possible #2 : Accept Authorization Code Grant

Currently, it has already been achieved by client settings, not client policies.

In Progress #3 : Reject Implicit Grant and Resource Owner Password Credentials Grant

Currently, it has already been achieved by client settings, not client policies.

PR sent KEYCLOAK-19539 FAPI 2.0 Baseline : Reject Implicit Grant

<https://github.com/keycloak/keycloak/pull/8574>

Merged KEYCLOAK-19540 FAPI 2.0 Baseline : Reject Resource Owner Password Credentials Grant

<https://github.com/keycloak/keycloak/pull/8589>

Possible #4 : Accept PAR

Currently, it has already been achieved by client settings, not client policies.

FAPI 2.0 Baseline (Draft ver)

Possible

#5 : Reject authorization request except PAR

Currently, it has already been achieved by client settings, not client policies.

Supported

#6 : Reject PAR without client authentication

Client is authenticated on PAR endpoint as default.

FAPI 2.0 Baseline (Draft ver)

In Progress #7 : PAR's authorization_details support

Supported #8 : Accept only confidential client

Supported #9 : Holder-of-Key token support

Currently, it has already been achieved by mutual TLS. DPOP is under development.

Supported #10 : Accept only specified secure client authentication methods

Supported #11 : Require PKCE

Not Yet #12 : Require PAR including redirect_uri

Not Yet #13 : Require authorization response including iss

Not Yet #14 : Make sure TLS for HTTP redirect with authorization response

Supported #15 : Detect multiple use of authorization code

Supported NOTE section's description.

FAPI 2.0 Baseline (Draft ver)

Supported

#16 : Provide mechanism for verifying access token by resource server

Supported

#17 : Prohibit 307 redirect

Optional

#18 : Should use 303 redirect

Supported

#19 : Prohibit Open Redirector

Supported

#20 : Check aud claim's value of JWS client assertion in private_key_jwt

Currently, JWTClientAuthenticator supported it.

Difference between FAPI2 and FAPI1

- #1 : Not require JAR and JARM
- #2 : Require RAR
- #3 : Not require s_hash
- #4 : Require redirect_uri in PAR
- #5 : Not require hybrid flow
- #6 : Not require ID token as detached signature
- #7 : Not require JWE for ID token
- #8 : Add DPoP for Holder-of-Key token

Working Items Status

Working Items

[Security Features]

<Common>

In Progress OIDC Client's Public Key Management

1st phase -> 2nd phase

In Progress Revising Client Policies



Hitachi



Hitachi

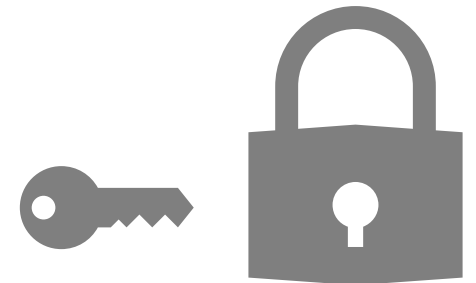
[Security Features]

<SPA/Native App>

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



Backbase



Working Items

[Security Features]

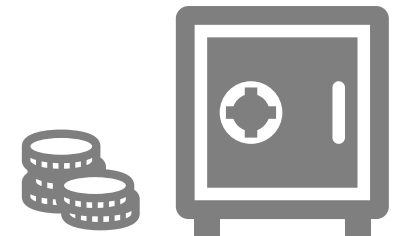
<High Level Security>

- FAPI 2.0 (baseline/advanced)

In Progress Rich Authorization Request (RAR)


In Progress Grant Management API

In Progress Other requirements support



Working Items

[Market Specific Features]

<PSD2> 

- Following eIDAS regulations

 QWAC verification

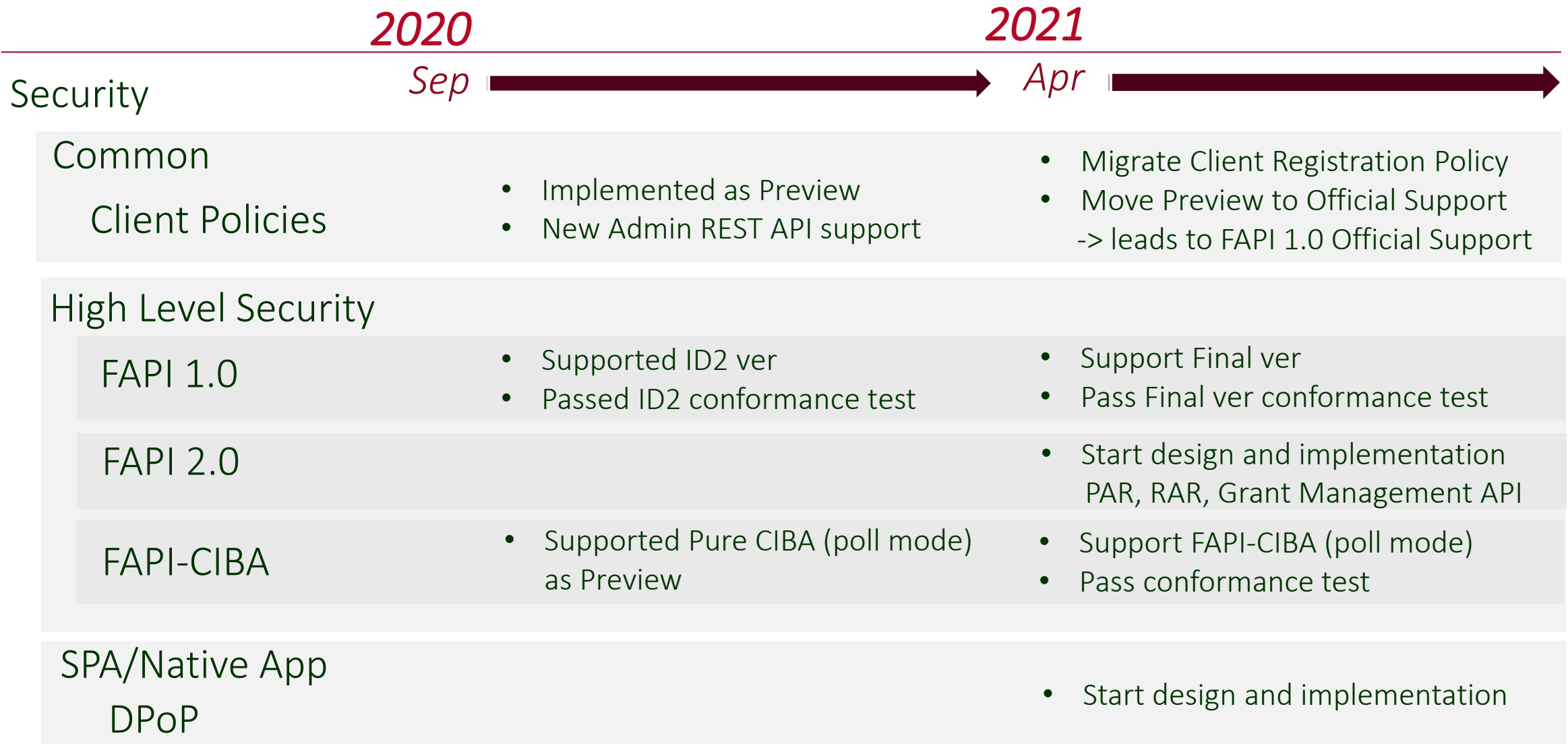


- Consent Management

<UK OpenBanking> 

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

Roadmap



Roadmap



END