@Web Conference20 Jan 2021

# FAPI-SIG Community 11<sup>th</sup> Meeting

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Major Topics

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## Major Topics

# Major Topics

Project : FAPI-RW

OpenID Foundation will fix the final version of FAPI 1.0

(FAPI-RO -> FAPI 1.0 Baseline, FAPI-RW -> FAPI 1.0 Advanced).

Need to follow this final version of FAPI 1.0.

Project : Client Policy Official Support

Subproject : Client Policies for FAPI-RW

All PRs needed to support FAPI-RW by using only Client Policy have been merged.

Project : Client Policy Official Support

Subproject : External Interfaces

KEYCLOAK-16137 Client Policy: Support New Admin REST API

Its design document has been approved and merged.

# Status Updates from 10<sup>th</sup> Meeting FAPI-RW

# Remaining Issues Status

6 Jan 2021

20 Jan 2021

4 Issues in total

3 Resolved

1 In Progress

0 Assigned

0 Not Assigned



3 Resolved +0

1 In Progress +0

0 Assigned +0

0 Not Assigned +0

# Remaining Issues Details

#### [Conformance Test]

• <u>#39</u> Confirm all FAPI R/W OP w/ MTLS conformance tests are passed by the released keycloak

Resolved

• <u>#40</u> Confirm all FAPI R/W OP w/ Private key conformance tests are passed by the released keycloak

Resolved

#### [Conformance Test Environment]

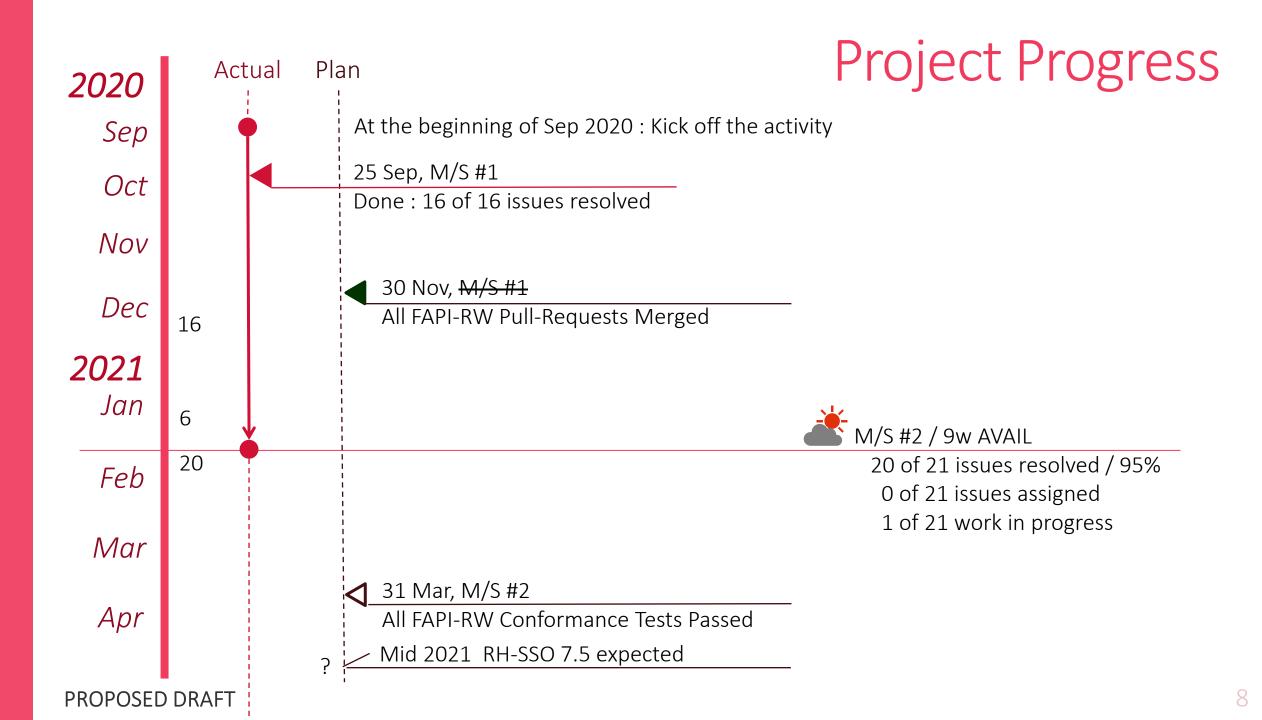
• #45 Integrating FAPI-RW conformance tests run into keycloak's CI/CD pipeline

FAPI-RW conformance test run automation completed.

Integrating this automation onto keycloak codebase remains open.

• <u>#46</u> Consider alternative for keycloak-gatekeeper used in FAPI-RW conformance test run environment

Resolved



### Last Stretch - Following Final version of FAPI 1.0

#### [Motivation]

The current keycloak (12.0.1) has supported FAPI-RW security profile which version is Implementer's Draft ver 2(ID2). It also has passed all corresponding conformance tests on local environment.

On Jan, OID-F will fix the final version of FAPI 1.0 which have some changes compared with ID2.

IMO, we must support the **final** version of FAPI 1.0.

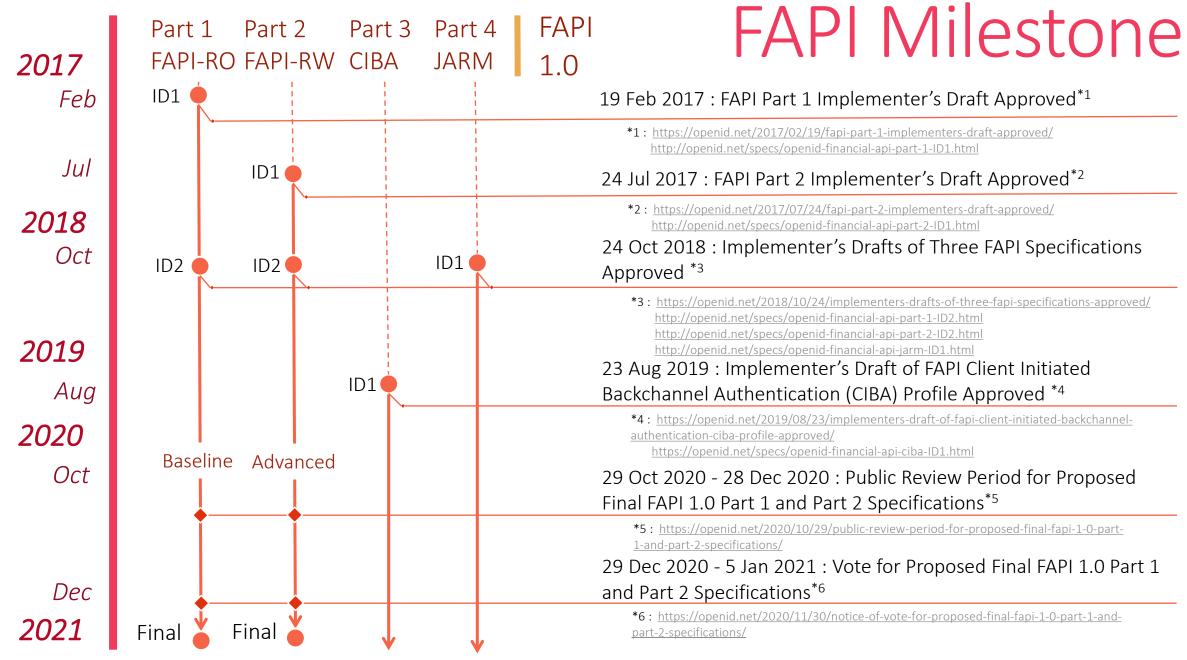
#### [Additional works needed]

We need to do the following works:

- Clarify the difference between the final version and ID2
- Clarify whether additional implementation is needed
- If needed, implement features needed to support the final version of FAPI 1.0
- Confirm whether the keycloak incorporating these features can pass all conformance tests for the final version of FAPI 1.0.
- After PRs for such the implementation are merged and the new version of keycloak is released, confirm whether this version of keycloak can pass all conformance tests for the final version of FAPI 1.0.

#### [Milestone]

The works above need to be done by the end of Mar to meet the release of RH-SSO 7.5.



# Status Updates from 10<sup>th</sup> Meeting FAPI-CIBA (poll mode)

# Remaining Issues Status

+0

6 Jan 2021

20 Jan 2021

13 Issues in total

8 Resolved [62%]

2 In Progress

3 Assigned

0 Not Assigned



8 Resolved [62%] +0

2 In Progress

3 Assigned +0

0 Not Assigned +0

# Remaining Issues Details 1/3

#### [Backchannel Authentication Request]

- #53 encrypt/decrypt login\_hint Resolved
- <u>#54</u> support login\_hint\_token Resolved
- <u>#55</u> support id\_token\_hint Resolved
- <u>#56</u> support Signed Authentication Request In Review
- <u>#57</u> support User Code Resolved

# Remaining Issues Details 2/3

#### [Settings]

• <u>#58</u> Realm Settings (CIBA Policy) overriden by Client Settings

In Review

#### [Internals]

- <u>#59</u> Use Only Auth Result Cache by Infinispan For CIBA Flow Session Binding Resolved
- <u>#60</u> Use Only Auth Result Cache on Communication with Decoupled Auth Server Resolved
- <u>#61</u> Token Request Throttling Information Not Cluster-wide Sync Resolved
- #62 Use Security Event Token (SET) as message format between keycloak and Decoupled Auth Server

Resolved

# Remaining Issues Details 3/3

#### [Arquillian Integration Test]

- <u>#63</u> Confirm CIBA Implementation Works Well in Clustering Environment Assigned
- <u>#64</u> Confirm CIBA Implementation Works Well in Cross-DC Environment Assigned

[Conformance Test]

• <u>#65</u> Establish the way of running FAPI-CIBA OP poll w/ MTLS and w/ Private Key against CIBA Implementation

Assigned

## Upstreaming CIBA Support

PR Sent

Pure CIBA



KEYCLOAK-12137 OpenID Connect Client Initiated Backchannel Authentication (CIBA)

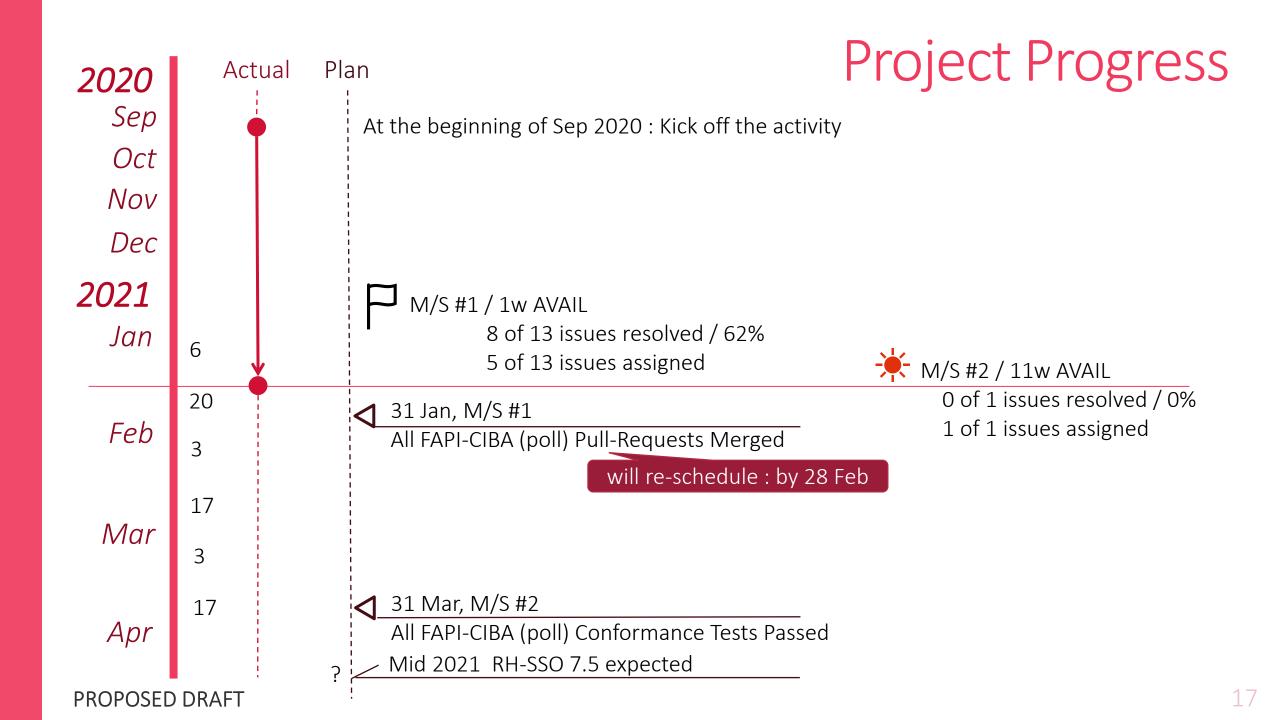
- CIBA Implementation based on its prototype (tnorimat/ciba-prototype)
- #59 Use Only Auth Result Cache by Infinispan For CIBA Flow Session Binding
- #60 Use Only Auth Result Cache on Communication with Decoupled Auth Server
- <u>#61</u> Token Request Throttling Information Not Cluster-wide Sync
- FAPI-CIBA
- <u>#57</u> support User Code
- FAPI-CIBA
  - <u>#55</u> support id\_token\_hint
- FAPI-CIBA
  - <u>#54</u> support login\_hint\_token
- FAPI-CIBA
  - <u>#53</u> encrypt/decrypt login\_hint











# Status Updates from 10<sup>th</sup> Meeting Client Policy Official Support

# Subprojects

### [Mandatory]

Active External Interfaces

Completed Client Policies for FAPI-RW

[Optional]

Pend Built-in Default Client Policies

Active Client Registration Policies Migration

### Issues Status - External Interfaces

6 Jan 2021 20 Jan 2021

6 Issues in total

O Resolved [0%]

2 In Progress

1 Assigned

3 Not Assigned

1 Resolved [17%] +1

1 In Progress -1

1 Assigned +0

3 Not Assigned +0

### Issue status in detail: External Interfaces

Resolved

KEYCLOAK-16137 Client Policy: Support New Admin REST API (Design)

• KEYCLOAK-16805 Client Policy: Support New Admin REST API (Implementation)

In Progress

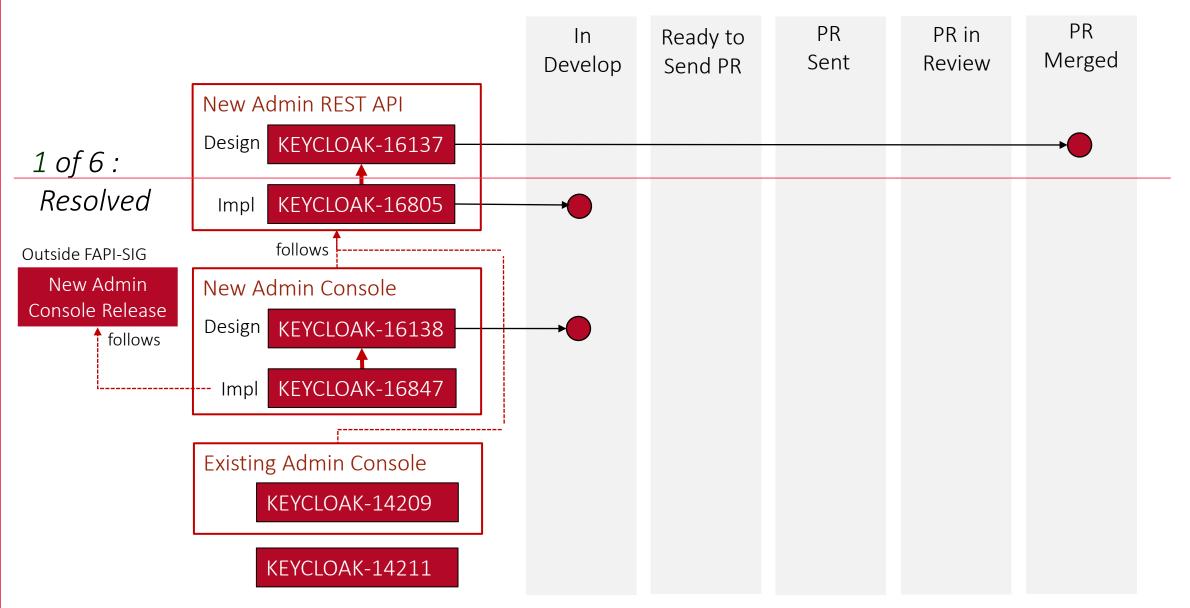
KEYCLOAK-16138 Client Policy: Support New Admin Console UI (Design)

- Concept Design by RH UXD team : <a href="https://marvelapp.com/prototype/6e70eh2/screen/74918976">https://marvelapp.com/prototype/6e70eh2/screen/74918976</a>
- KEYCLOAK-16847 Client Policy: Support New Admin Console UI (Implementation)
- KEYCLOAK-14209 Client Policy: UI on Admin Console
- KEYCLOAK-14211 Client Policy : Remove Client Policy related individual settings on Admin Console

[Potential Blocking Factor]

New Admin Console Release (not yet released)

### Issue status in detail: External Interfaces



### Issues Status - Client Policies for FAPI-RW

6 Jan 2021

17 Issues in total

15 Resolved [88%]

2 In Progress

0 Assigned

0 Not Assigned

20 Jan 2021

17 Issues in total

Completed

17 Resolved [100%] +2

2 In Progress -2

0 Assigned +0

0 Not Assigned +0

KEYCLOAK-14190 Client Policy - Condition: The way of creating/updating a Resolved client KEYCLOAK-14191 Client Policy - Condition : Author of a client - User Group Resolved KEYCLOAK-14192 Client Policy - Condition : Author of a client - User Role Resolved KEYCLOAK-14193 Client Policy - Condition : Client - Client Access Type Resolved KEYCLOAK-14194 Client Policy - Condition: Client - Client Domain Name KEYCLOAK-14195 Client Policy - Condition : Client - Client Role KEYCLOAK-14196 Client Policy - Condition : Client - Client Scope Resolved KEYCLOAK-14197 Client Policy - Condition : Client - Client Host Resolved

PROPOSED DRAFT

KEYCLOAK-14198 Client Policy - Condition : Client - Client IP

Resolved

Resolved

<u>KEYCLOAK-14199</u> Client Policy - Executor : Enforce more secure client authentication method when client registration

Resolved

<u>KEYCLOAK-14200</u> Client Policy - Executor : Enforce Holder-of-Key Token

Resolved

KEYCLOAK-14201 Client Policy - Executor : Enforce Proof Key for Code Exchange (PKCE)

Resolved

<u>KEYCLOAK-14202</u> Client Policy - Executor : Enforce secure signature algorithm for Signed JWT client authentication

Resolved

<u>KEYCLOAK-14203</u> Client Policy - Executor : Enforce HTTPS URIs

Resolved

<u>KEYCLOAK-14204</u> Client Policy - Executor : Enforce Request Object satisfying high security level

Resolved

KEYCLOAK-14205 Client Policy - Executor : Enforce Response Type of OIDC Hybrid Flow

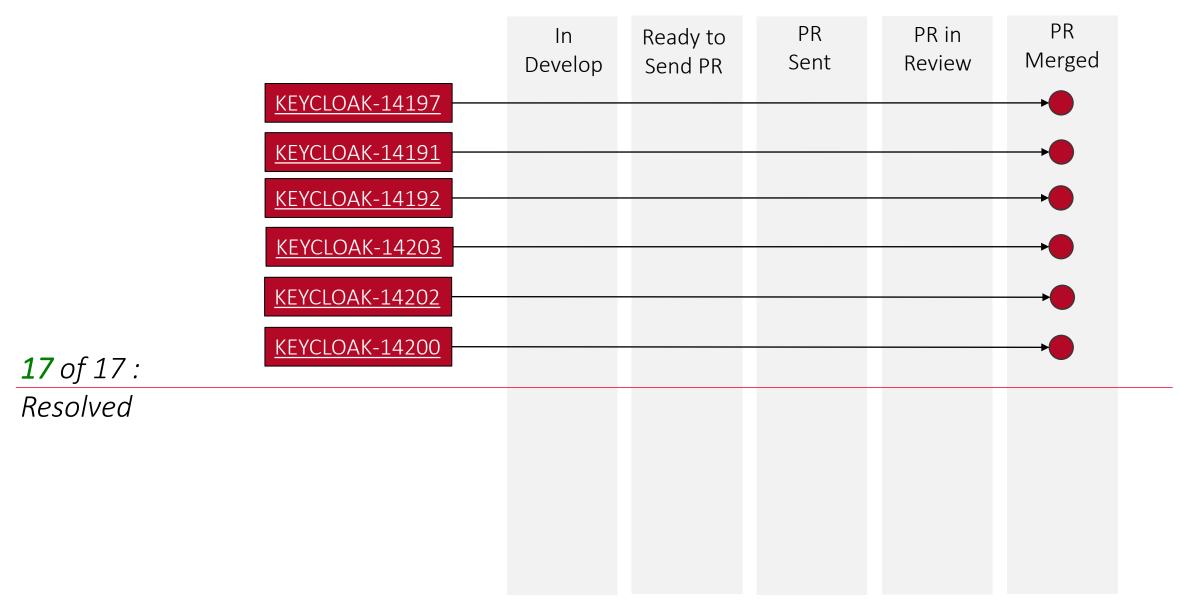
Resolved

<u>KEYCLOAK-14206</u> Client Policy - Executor : Enforce more secure state and nonce treatment for preventing CSRF

Resolved

<u>KEYCLOAK-14207</u> Client Policy - Executor : Enforce more secure client signature algorithm when client registration





# Issues Status - Client Registration Policies Migration

6 Jan 2021

20 Jan 2021

3 Issues in total

O Resolved [0%]



0 Resolved [0%] +0

3 In Progress

9 In Progress +6

0 Assigned

0 Assigned +0

0 Not Assigned

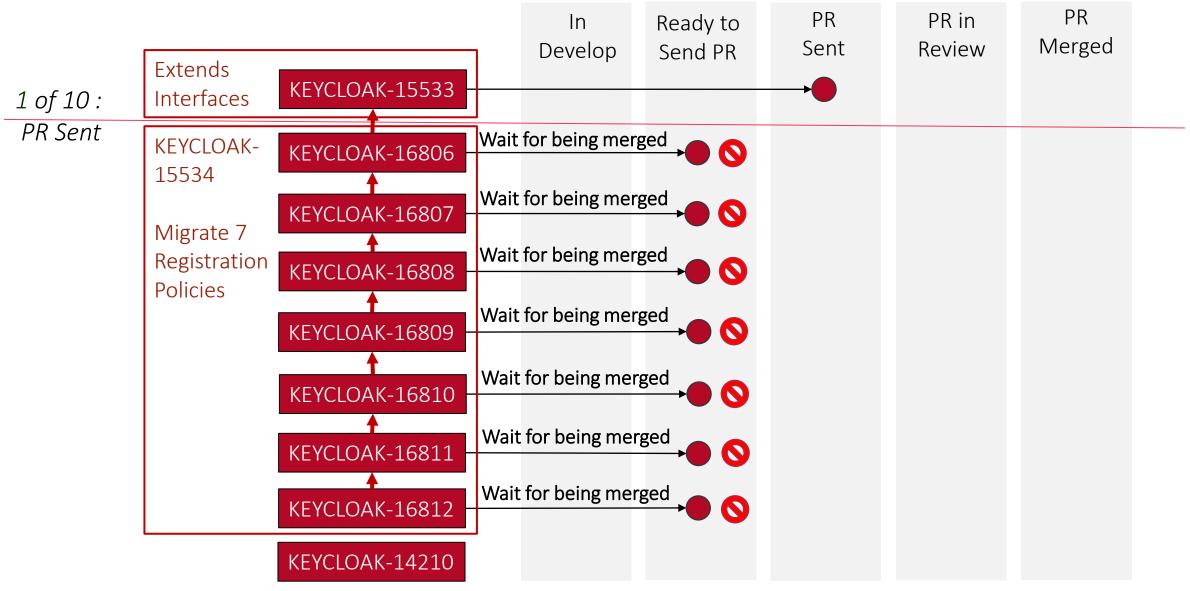
1 Not Assigned +1

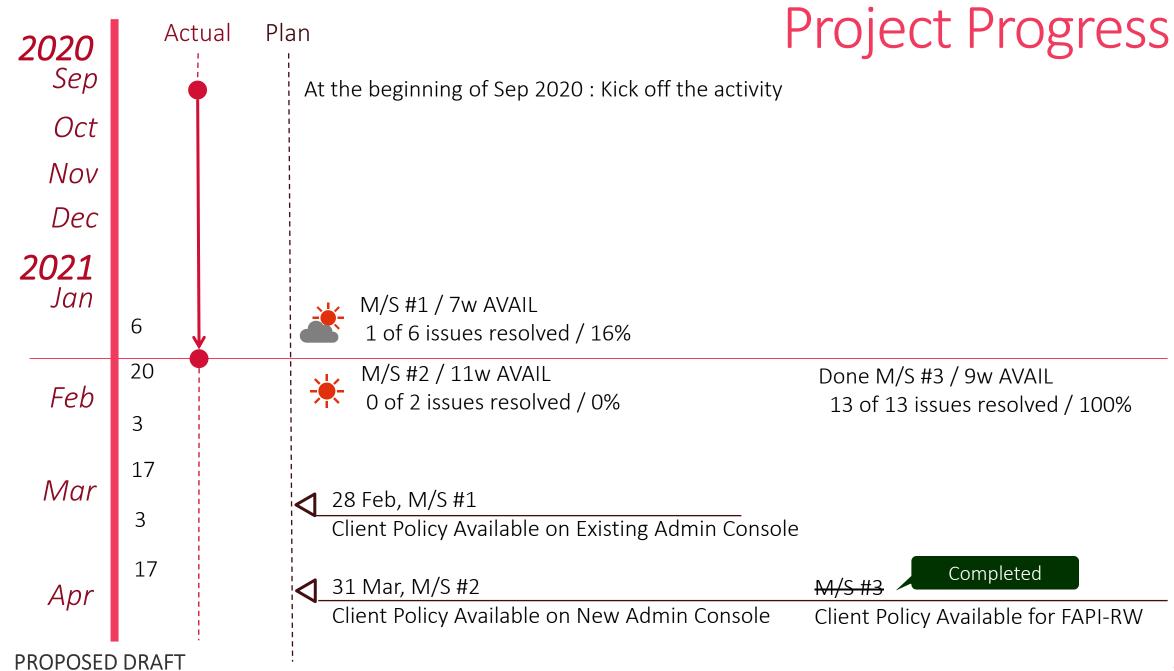
### Issue status in detail: Client Registration Policies Migration

PR Sent KEYCLOAK-15533 Client Policy: Extends Policy Interface to Migrate Client Registration Policies

- KEYCLOAK-15534 Client Policy: Implement Existing Client Registration Policies as Client Policies
- PR Ready KEYCLOAK-16806 Client Policy: Implement existing "ClientDisabledClientRegistrationPolicy" as Client Policies' executor
- PR Ready KEYCLOAK-16807 Client Policy: Implement existing "ClientScopesClientRegistrationPolicy" as Client Policies' executor
- PR Ready KEYCLOAK-16808 Client Policy: Implement existing "ConsentRequiredClientRegistrationPolicy" as Client Policies' executor
- PR Ready KEYCLOAK-16809 Client Policy: Implement existing "MaxClientsClientRegistrationPolicy" as Client Policies' executor
- PR Ready KEYCLOAK-16810 Client Policy: Implement existing "ProtocolMappersClientRegistrationPolicy" as Client Policies' executor
- PR Ready KEYCLOAK-16811 Client Policy: Implement existing "ScopeClientRegistrationPolicy" as Client Policies' executor
- PR Ready KEYCLOAK-16812 Client Policy: Implement existing "TrustedHostClientRegistrationPolicy" as Client Policies' executor
  - KEYCLOAK-14210 Client Policy: Migrate Client Registration Policies to Client Policies

### Issue status in detail: Client Registration Policies Migration





## Future Topic Proposal

## Keycloak PSD2 support

- PSD2
  - Support requirements from eIDAS

TPP's QWAC verification of Client Authentication on TLS layer

- 1. Confirm that TPP's certificate is QWAC that was issued from QTSP.
- 2. Confirm that TPP's certificate as QWAC does not expire and was not revoked.
- 3. Confirm that TPP's certificate follows QWAC profile.
- 4. Confirm that what TPP's certificate as QWAC states is true (roles, PSP ID).

## Keycloak PSD2 support - Current Status

- PSD2
  - Support requirements from eIDAS

TPP's QWAC verification of Client Authentication on TLS layer

- 1. Confirm that TPP's certificate is QWAC that was issued from QTSP.
- -> It can realize it by using only QTSP's certificates as keycloak's trust anchors and manage them.
- 2. Confirm that TPP's certificate as QWAC does not expire and was not revoked.
  - -> The end user authentication by X.509 has already supported revocation check by CRL/OCSP while the client authentication by X.509 not.
- 3. Confirm that TPP's certificate follows QWAC profile.
- 4. Confirm that what TPP's certificate as QWAC states is true (roles, PSP ID).

