

For keycloak FAPI-SIG
Aug 2020

FAPI Support Milestone

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Background & Main Task Definition

FAPI Milestone

2017

Feb

Part 1 Part 2 Part 3 Part 4 FAPI
FAPI-RO FAPI-RW CIBA JARM 1.0

ID1

19 Feb 2017 : FAPI Part 1 Implementer's Draft Approved*¹

*1 : <https://openid.net/2017/02/19/fapi-part-1-implementers-draft-approved/>
<http://openid.net/specs/openid-financial-api-part-1-ID1.html>

Jul

ID1

24 Jul 2017 : FAPI Part 2 Implementer's Draft Approved*²

*2 : <https://openid.net/2017/07/24/fapi-part-2-implementers-draft-approved/>
<http://openid.net/specs/openid-financial-api-part-2-ID1.html>

2018

Oct

ID2

ID2

ID1

24 Oct 2018 : Implementer's Drafts of Three FAPI Specifications Approved *³

*3 : <https://openid.net/2018/10/24/implementers-drafts-of-three-fapi-specifications-approved/>
<http://openid.net/specs/openid-financial-api-part-1-ID2.html>
<http://openid.net/specs/openid-financial-api-part-2-ID2.html>
<http://openid.net/specs/openid-financial-api-jarm-ID1.html>

2019

Aug

ID1

23 Aug 2019 : Implementer's Draft of FAPI Client Initiated Backchannel Authentication (CIBA) Profile Approved *⁴

*4 : <https://openid.net/2019/08/23/implementers-draft-of-fapi-client-initiated-backchannel-authentication-ciba-profile-approved/>
<https://openid.net/specs/openid-financial-api-ciba-ID1.html>

2020

Dec

Final

Final

Final

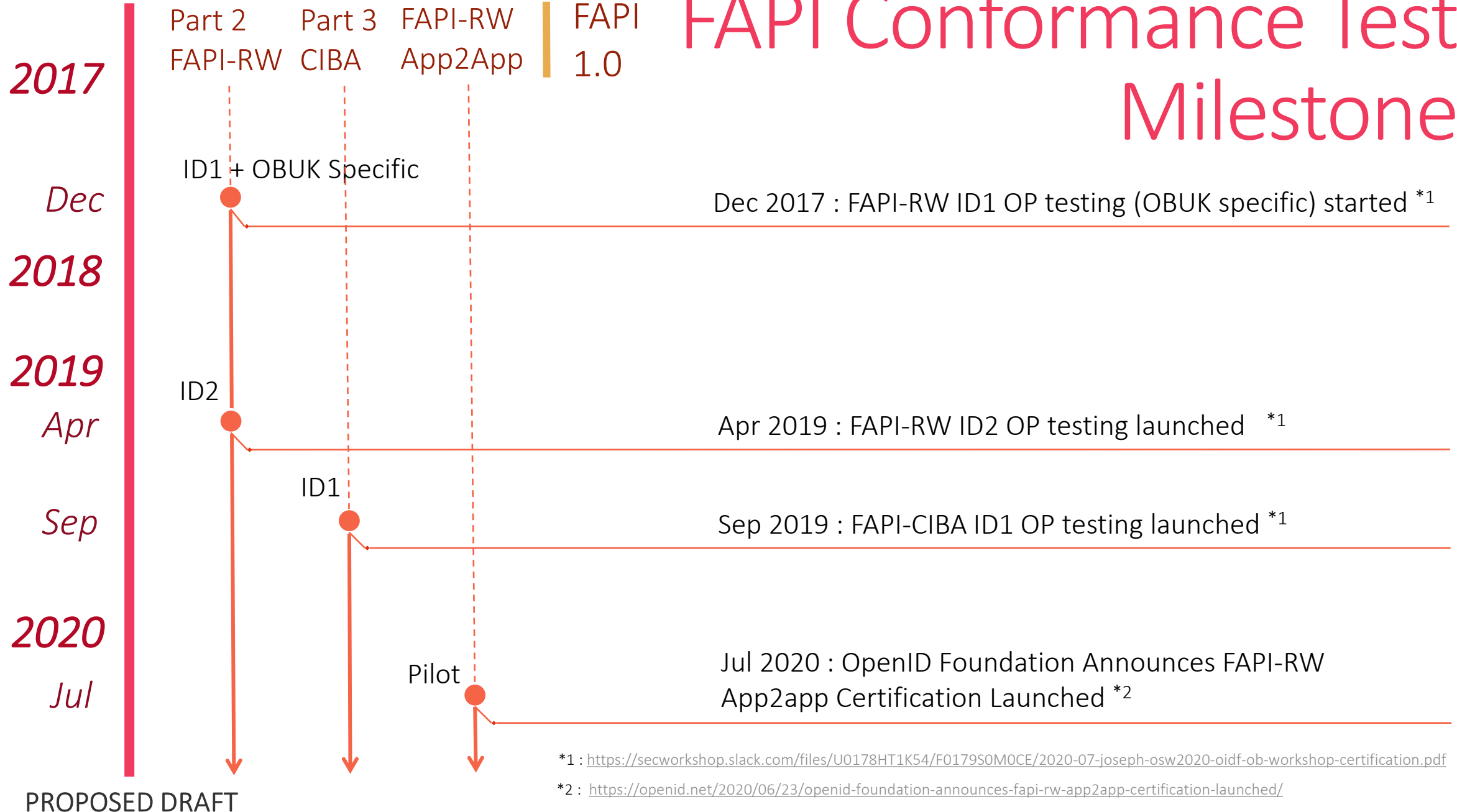
Final

21 Jul 2020 : OAuth Security Workshop (OSW2020)
OBIE and OIDF Conformance and Certifications Workshop*⁵

*5 : <https://www.youtube.com/watch?v=VCyBu7tIRM8> 18:10

PROPOSED DRAFT

FAPI Conformance Test Milestone



Keycloak Milestone

15 Mar 2017 : [keycloak-dev] Keycloak 2.5.5.Final Released^{*1}

^{*1} : <https://lists.jboss.org/pipermail/keycloak-dev/2017-March/009006.html>

4 Jan 2018 : [keycloak-dev] Keycloak 3.4.3.Final released^{*2}

^{*2} : <https://lists.jboss.org/pipermail/keycloak-dev/2018-January/010282.html>

15 Jan 2019 : Keycloak 4.8.3.Final released^{*3}

^{*3} : <https://www.keycloak.org/2019/01/keycloak-483final-released.html>

6 Mar 2019 : [Keycloak 5.0.0 released](#)

17 Apr 2019 : [Keycloak 6.0.0 released](#)

24 Aug 2019 : [Keycloak 7.0.0 released](#)

15 Nov 2019 : [Keycloak 8.0.0 released](#)

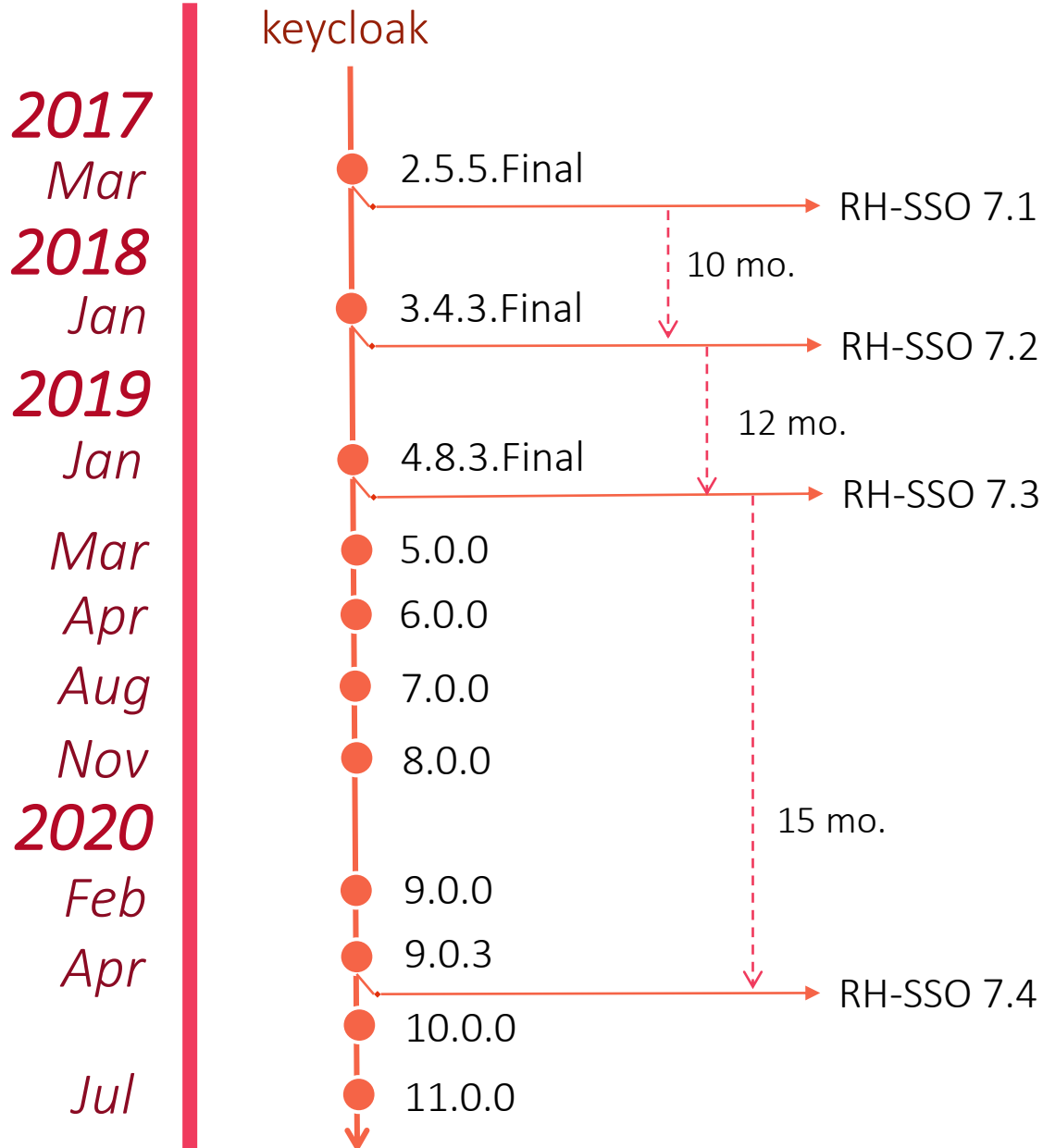
17 Feb 2020 : [Keycloak 9.0.0 released](#)

14 Apr 2020 : Keycloak 9.0.3 released^{*4}

^{*4} : <https://www.keycloak.org/2020/04/keycloak-903-released.html>

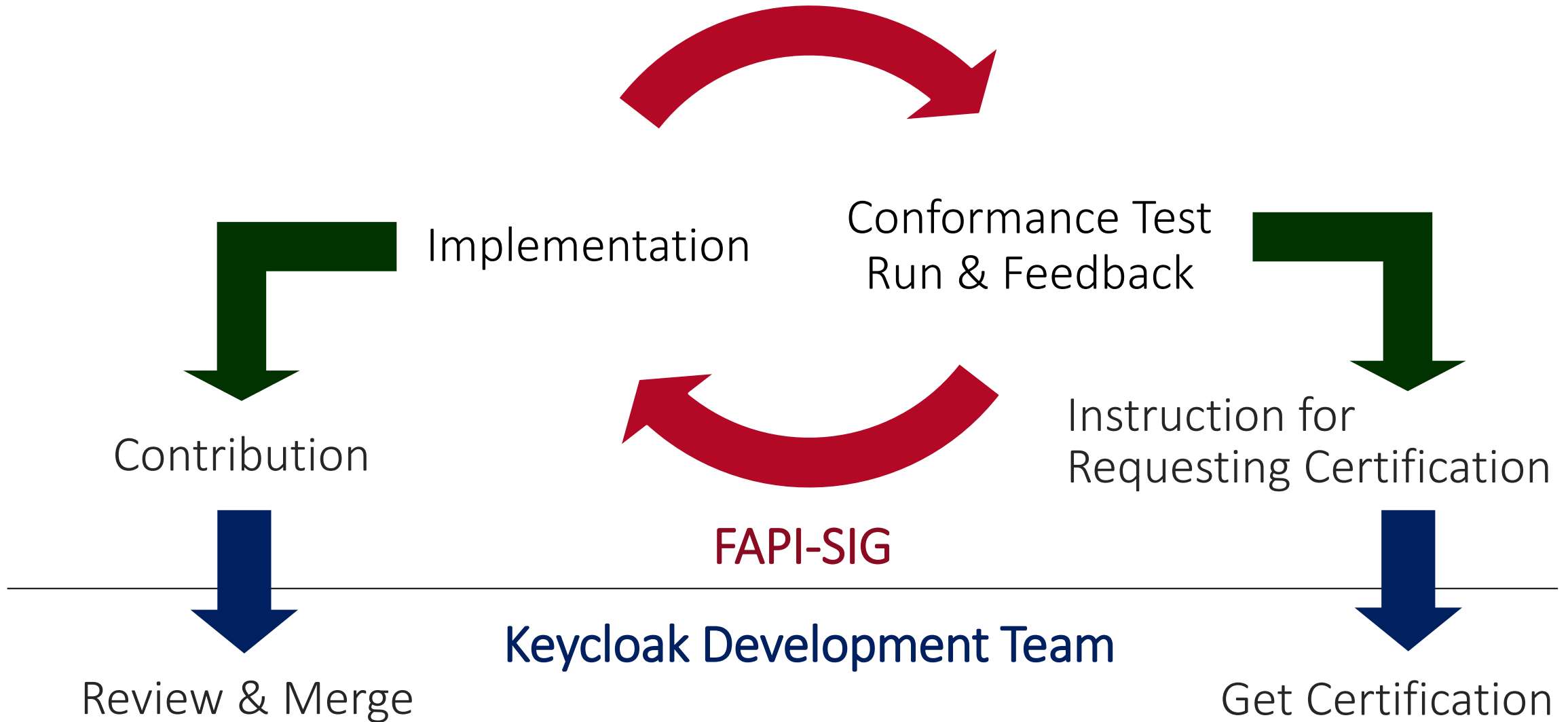
29 Apr 2020 : [Keycloak 10.0.0 released](#)

22 Jul 2020 : [Keycloak 11.0.0 released](#)



PROPOSED DRAFT

Responsibility



Main Tasks

[First Priority]

- FAPI-RW

Pass Conformance Tests. (by Nov 2020)

-> (Expected) keycloak dev team gets the certificate.

-> (Expected) RH-SSO 7.5 based on this certified keycloak. (might be 2021)

- FAPI-CIBA

Implement & Contribute (by Dec 2020)

-> (Expected) RH-SSO 7.5 with FAPI-CIBA as technology preview.

[Second Priority]

- Ecosystem Specific

TBD

Milestone :
Main Task 1st Priority : FAPI-RW

Sub Tasks

- Implementation & Contribution

Task :

Resolve remaining open JIRA tickets and issues on jsoss-sig/keycloak-fapi repository.

Resolve issues reported from conformance test run & feedback.

Preferable Background : Software Development, Web Security Development

Preferable Skill : JavaEE, OAuth2/OIDC, security feature programming/review

- Conformance Test Run & Feedback

Task :

Run conformance test against keycloak and analyze its result.

Report this analysis to Implementation and Contribution team.

Preferable Background : Software Development, Web Application Testing

Preferable Skill : JavaEE, Docker, Web application security analysis

Target Conformance Test

Background :

- Keycloak has already supported both MTLS and Private Key client authentication.
- There is no open JIRA tickets and issues specific to w/MTLS or w/Private Key.
- Both w/MTLS and w/Private Key requires mutual TLS for Holder-of-Key Bound Token.

[First Priority]

- FAPI R/W OP w/ MTLS

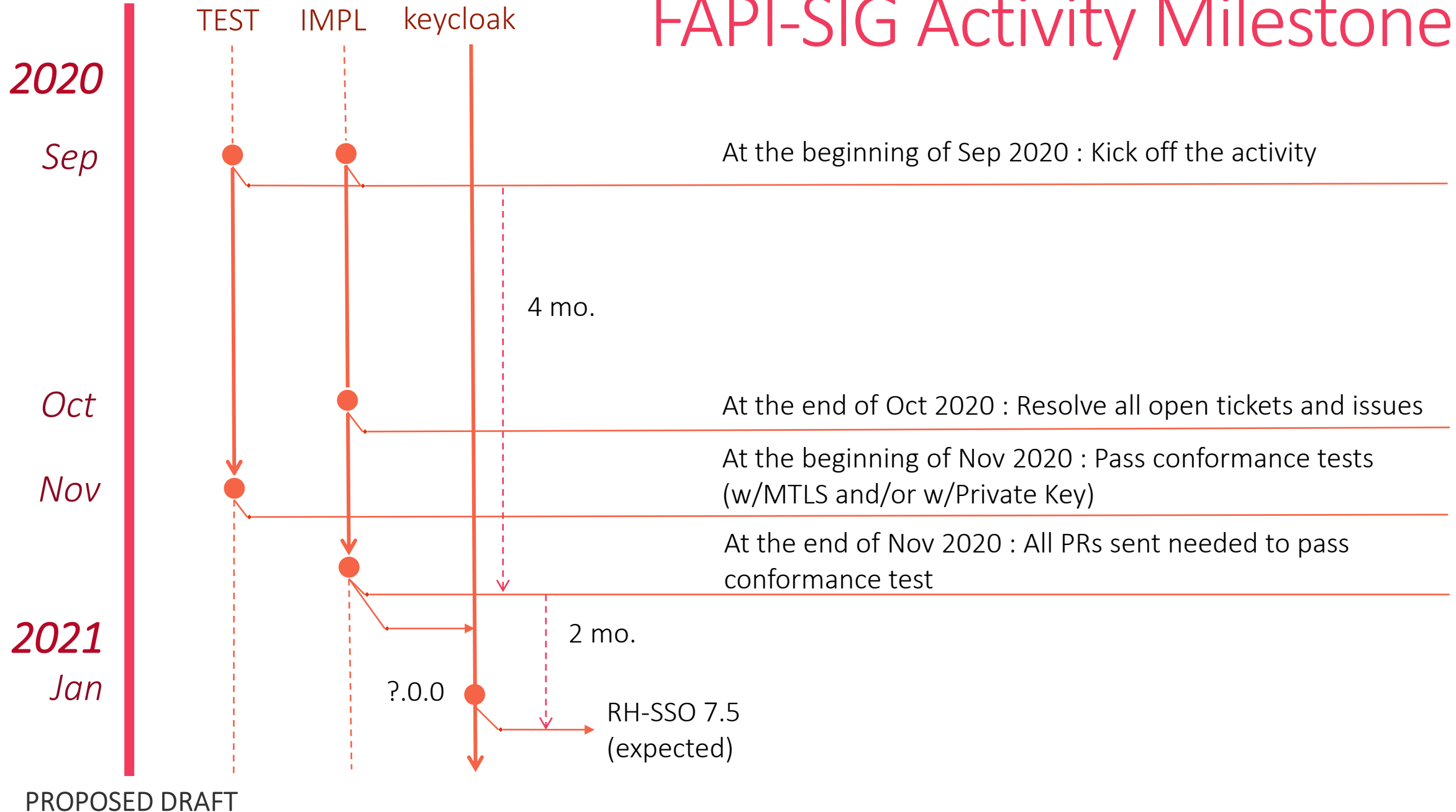
Only requires mutual TLS.

[Second Priority]

- FAPI R/W OP w/ Private Key

Requires both mutual TLS and private_key_jwt client authentication.

FAPI-SIG Activity Milestone



Milestone:
Main Task 1st Priority : FAPI-CIBA

Sub Tasks

- Implementation & Contribution

Task :

Implement CIBA and FAPI-CIBA security profile based on the design document^{*1}

First Priority : FAPI-CIBA OP poll w/ MTLS

Only requires mutual TLS.

Second Priority : FAPI-CIBA OP poll w/ Private Key

Requires both mutual TLS and private_key_jwt client authentication.

Out of Scope : FAPI-CIBA OP ping w/ MTLS, FAPI-CIBA OP ping w/ Private Key

FAPI-CIBA states that an authorization server shall support poll mode while may support ping mode.

Preferable Background : Software Development, Web Security Development

Preferable Skill : J2EE, OAuth2/OIDC, CIBA, security feature programming/review

^{*1} : <https://github.com/keycloak/keycloak-community/blob/master/design/client-initiated-backchannel-authentication-flow.md>

FAPI-SIG Activity Milestone

