

mojaloop

# Mojaloop TTK PI-12

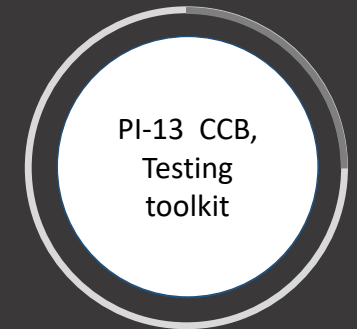
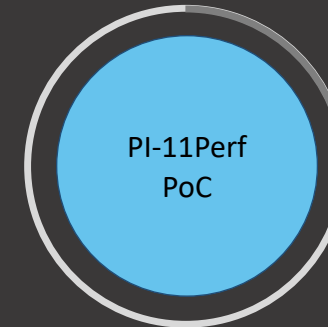
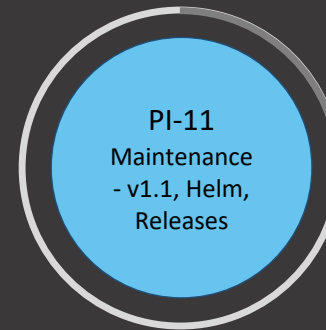
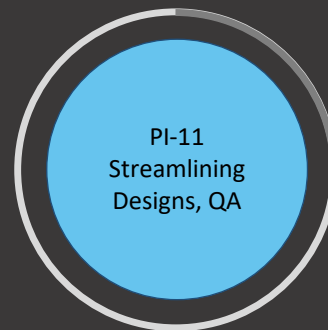
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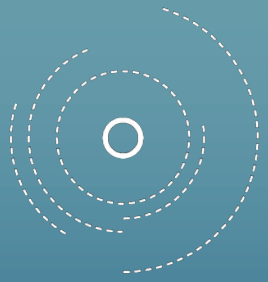
Phase-4 Going live!

# Mojaloop PI-12

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Phase-4 Going Live!





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# Mojaloop Testing Toolkit

Features, Improvements & Community Support

# PI-11 TTK: Objectives

1. **Support** – wider adoption of the testing tool-kit by implementers [by **two** implementers]
2. Implement a **hosted version** of the TTK that can be securely & easily hosted by schemes
3. [Stretch] Include a Reference **OAuth Server** in Helm Chart

# PI-11 TTK: General themes

1. Validating (FSPIOP) API implementations
  - a. DFSP
  - b. Switch / Hub
2. Support schemes (scale) in onboarding FSPs
3. Demonstration capabilities
4. Ease of use by all types of users – reduce business/dev onboarding

# Testing toolkit: Enhancements in PI-11

## Support wider adoption of the testing toolkit

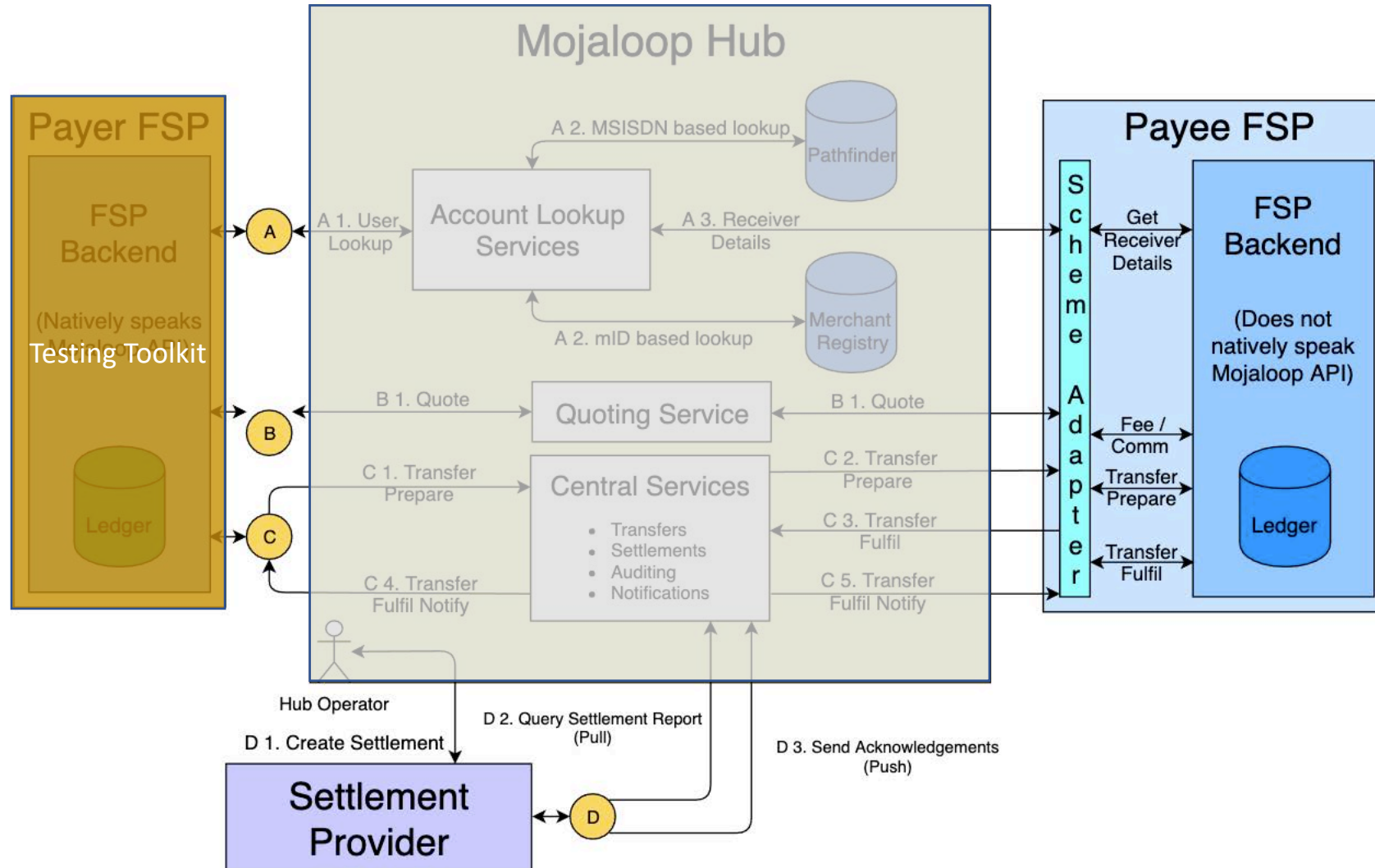
1. Feature enhancements to support following TTK users
  1. PISP
  2. ATM / POS
  3. Core Team
  4. FXP
2. Hub only mode
3. Divided test cases structure from single JSON file to smaller files and sub folders using sequencing constraints
  - a. Support PR Reviews
  - b. Collaboration
4. Helm chart for on-demand and scheduled jobs using TTK CLI with AWS S3 and Slack notification support
5. Maintenance and Bugfixes

## Hosting capability

1. Implemented database storage in hosted mode
2. Separation of rules, settings, logs and reports per DFSP wise
3. Helm chart for both standalone and hosted mode
4. Integrated keycloak oAuth server



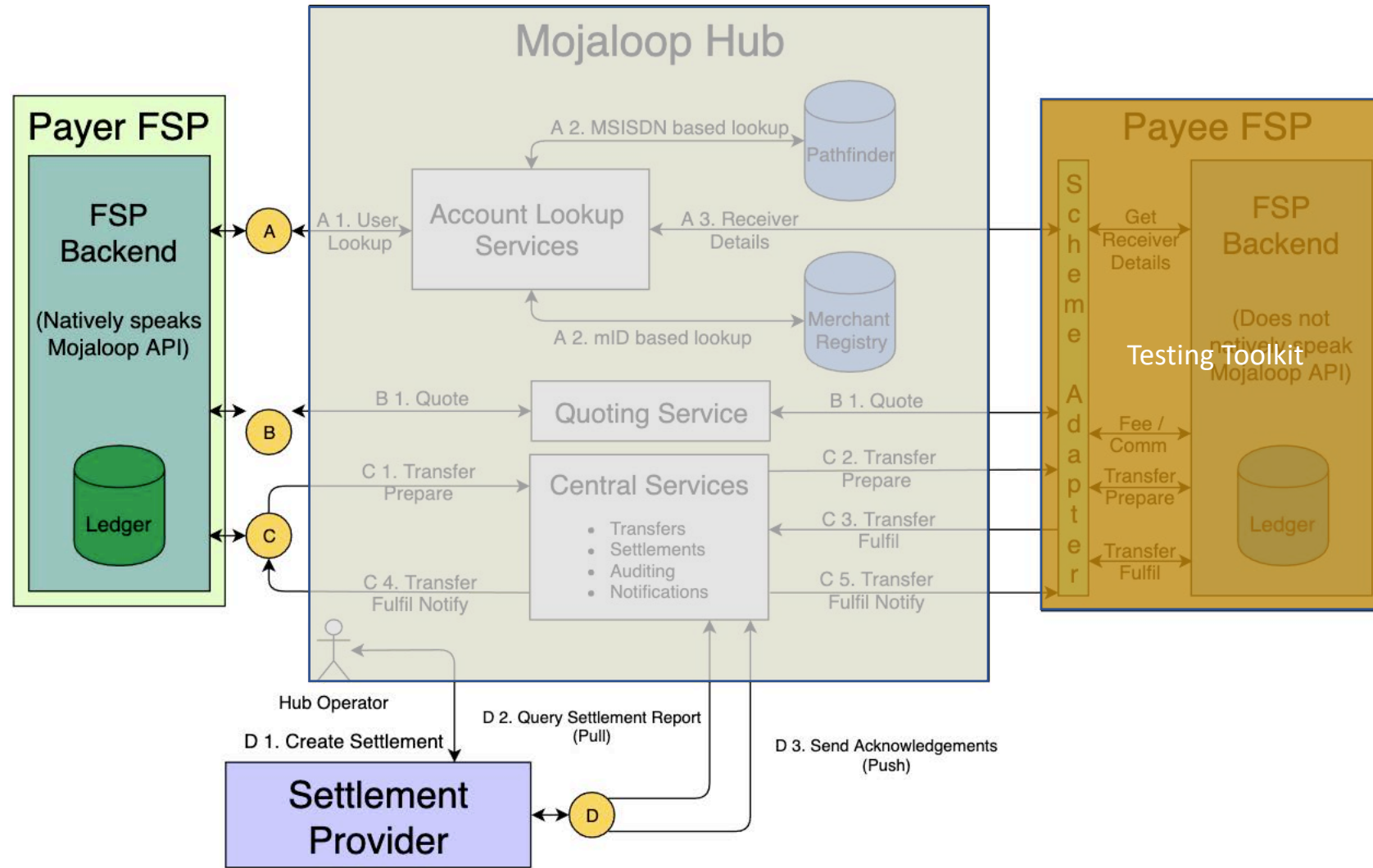
# Where does it fit?



Testing Toolkit to HUB

Testing Toolkit to DFSP

# Where does it fit?



Testing Toolkit to HUB

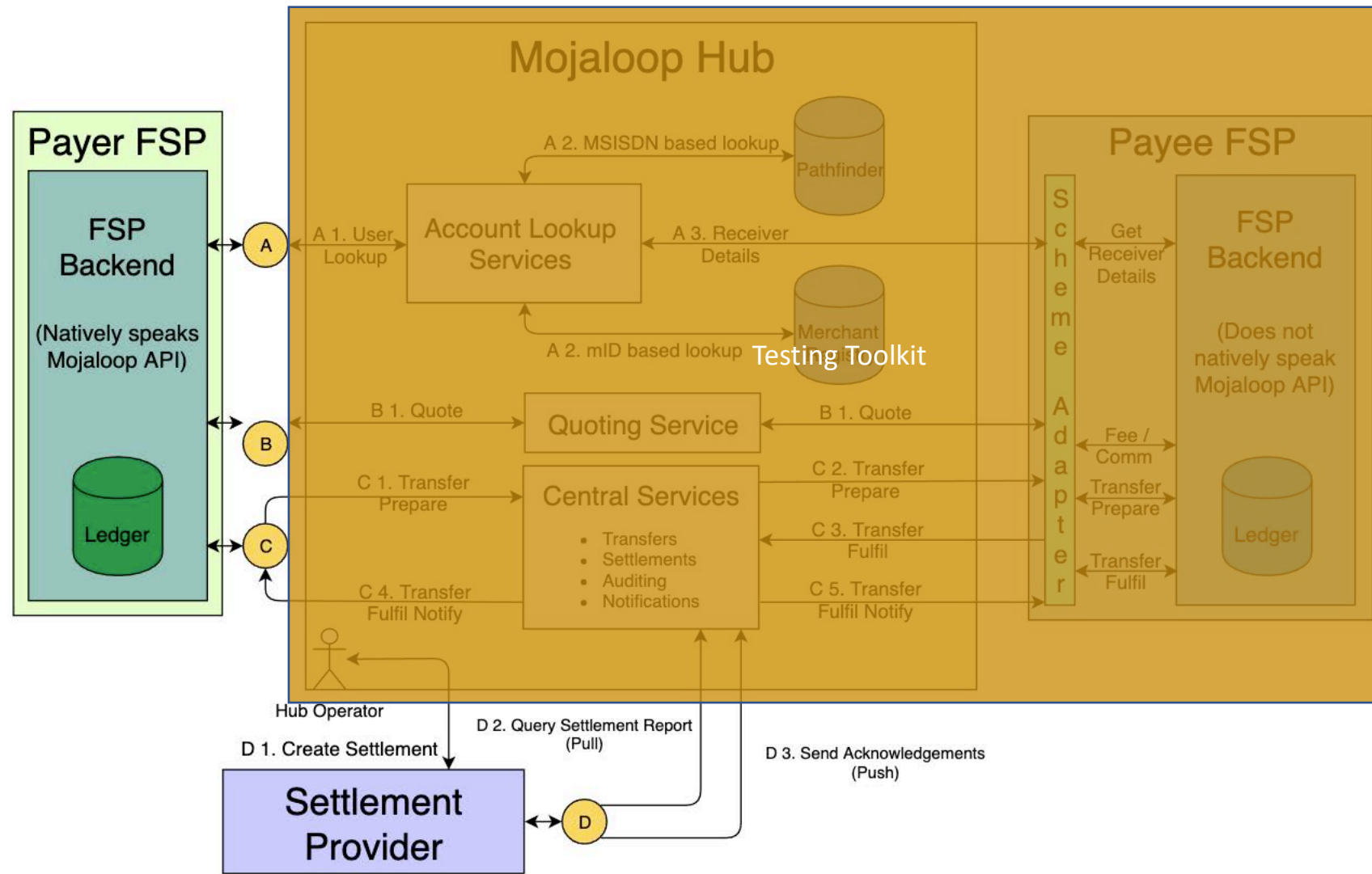
Testing Toolkit to DFSP

HUB to Testing Toolkit

DFSP to Testing Toolkit



# Where does it fit?



Testing Toolkit to HUB

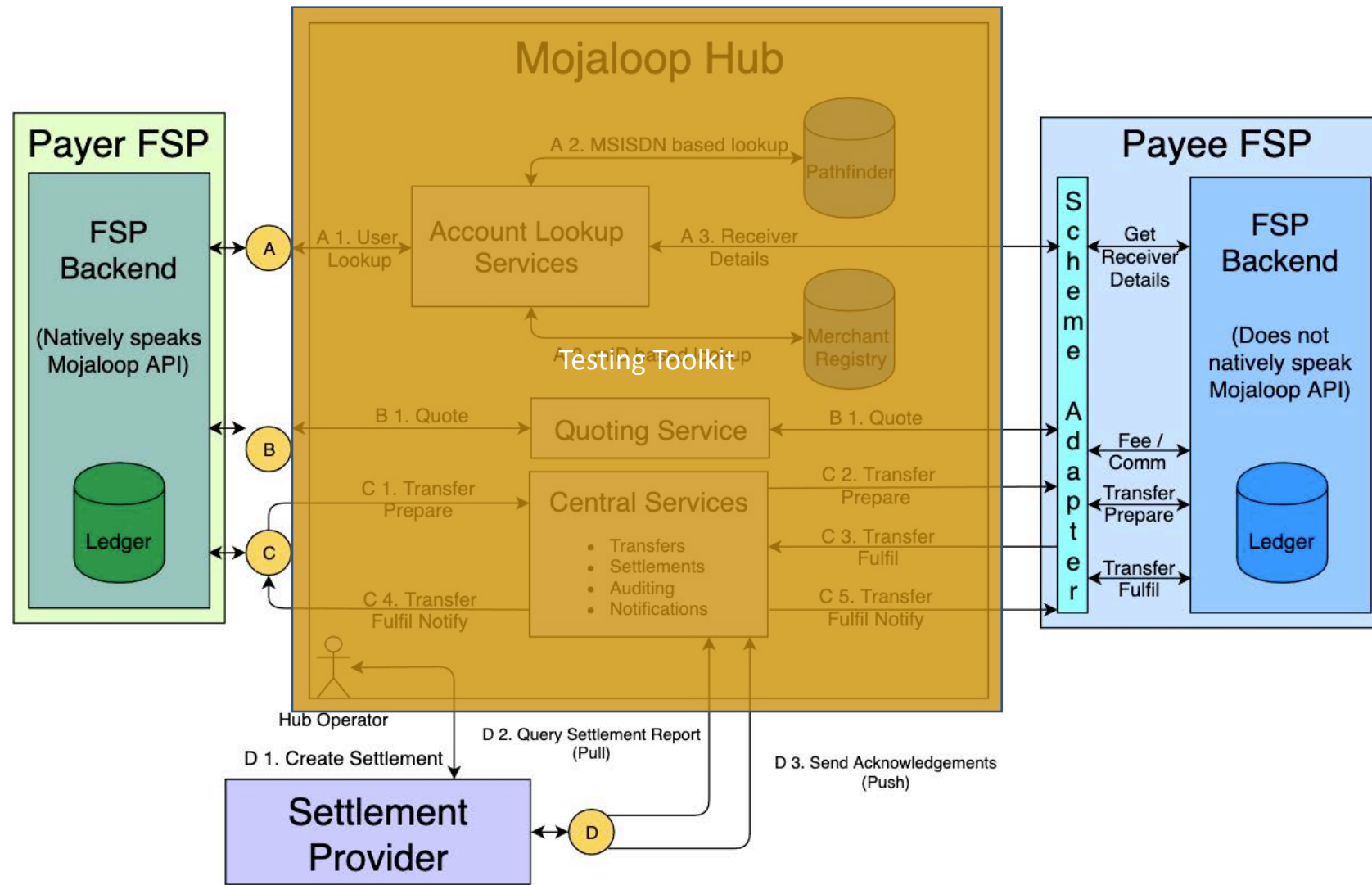
Testing Toolkit to DFSP

HUB to Testing Toolkit

DFSP to Testing Toolkit

As a Hub and Payee FSP

# Where does it fit?



Testing Toolkit to HUB

Testing Toolkit to DFSP

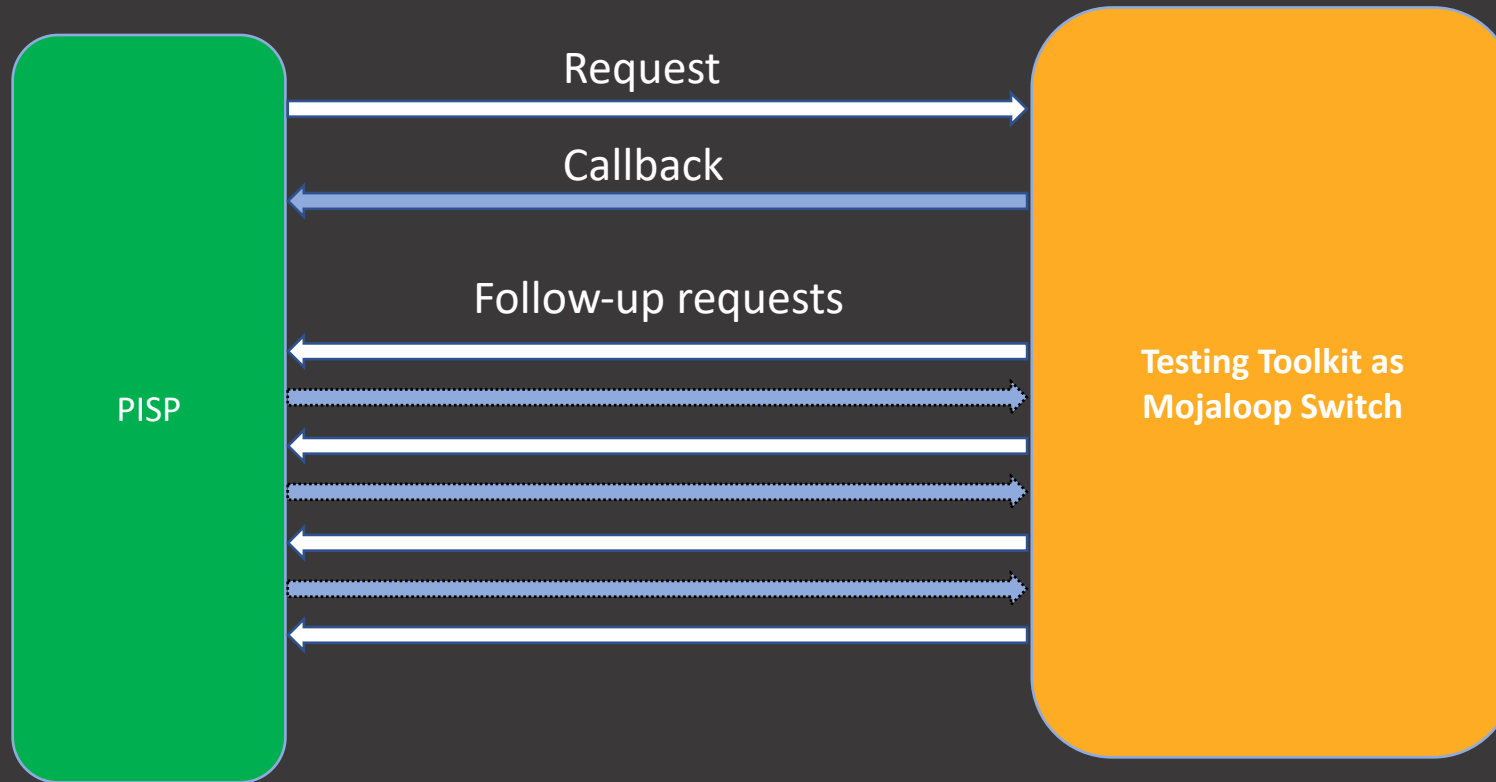
HUB to Testing Toolkit

DFSP to Testing Toolkit

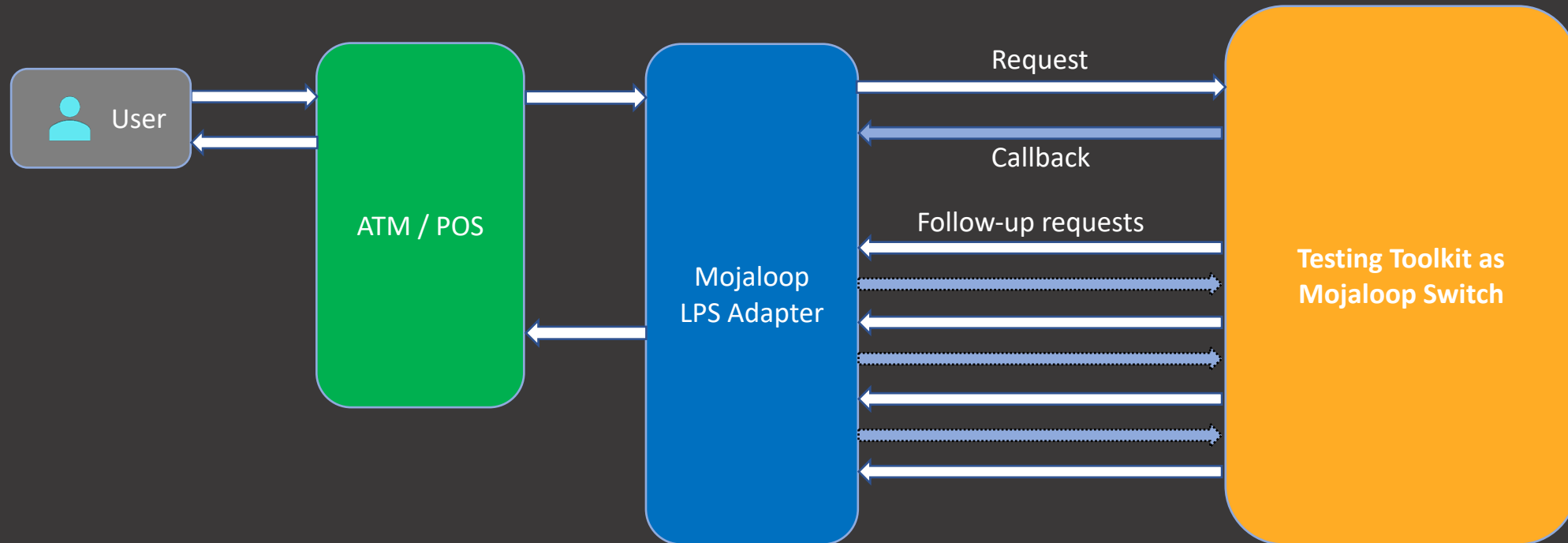
As a Hub and Payee FSP

As a Hub only

## Use-case: PISP Team

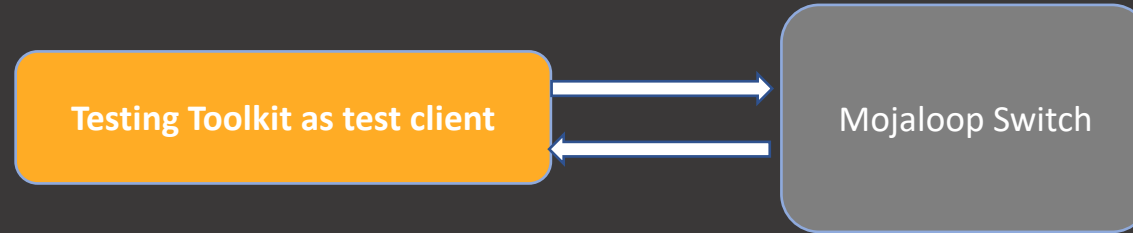


# Use-case: ATM / POS

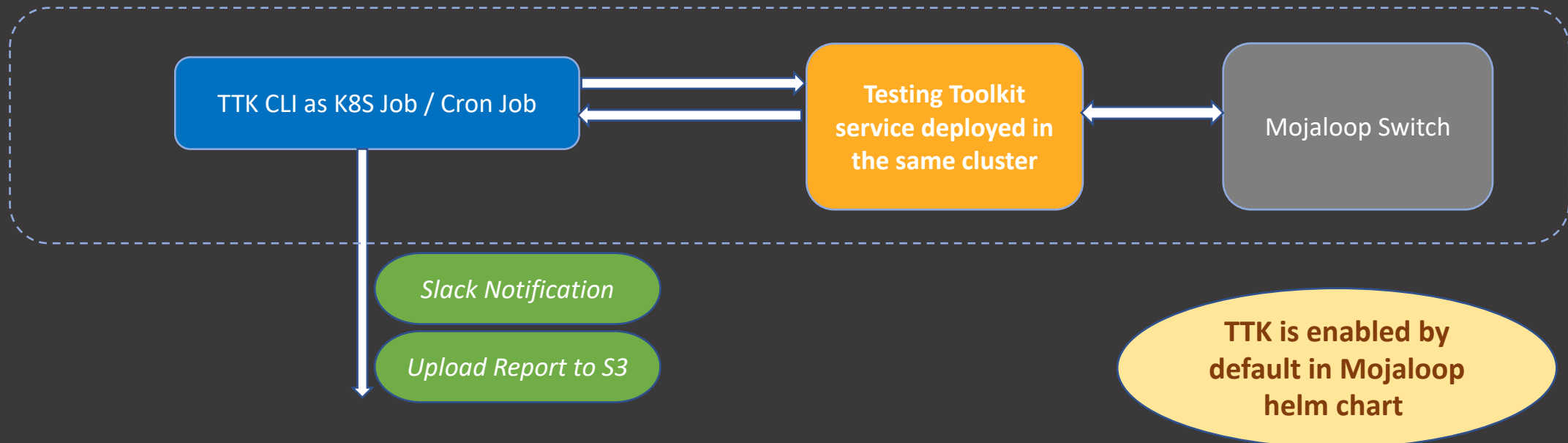


# Use-case: Core Team

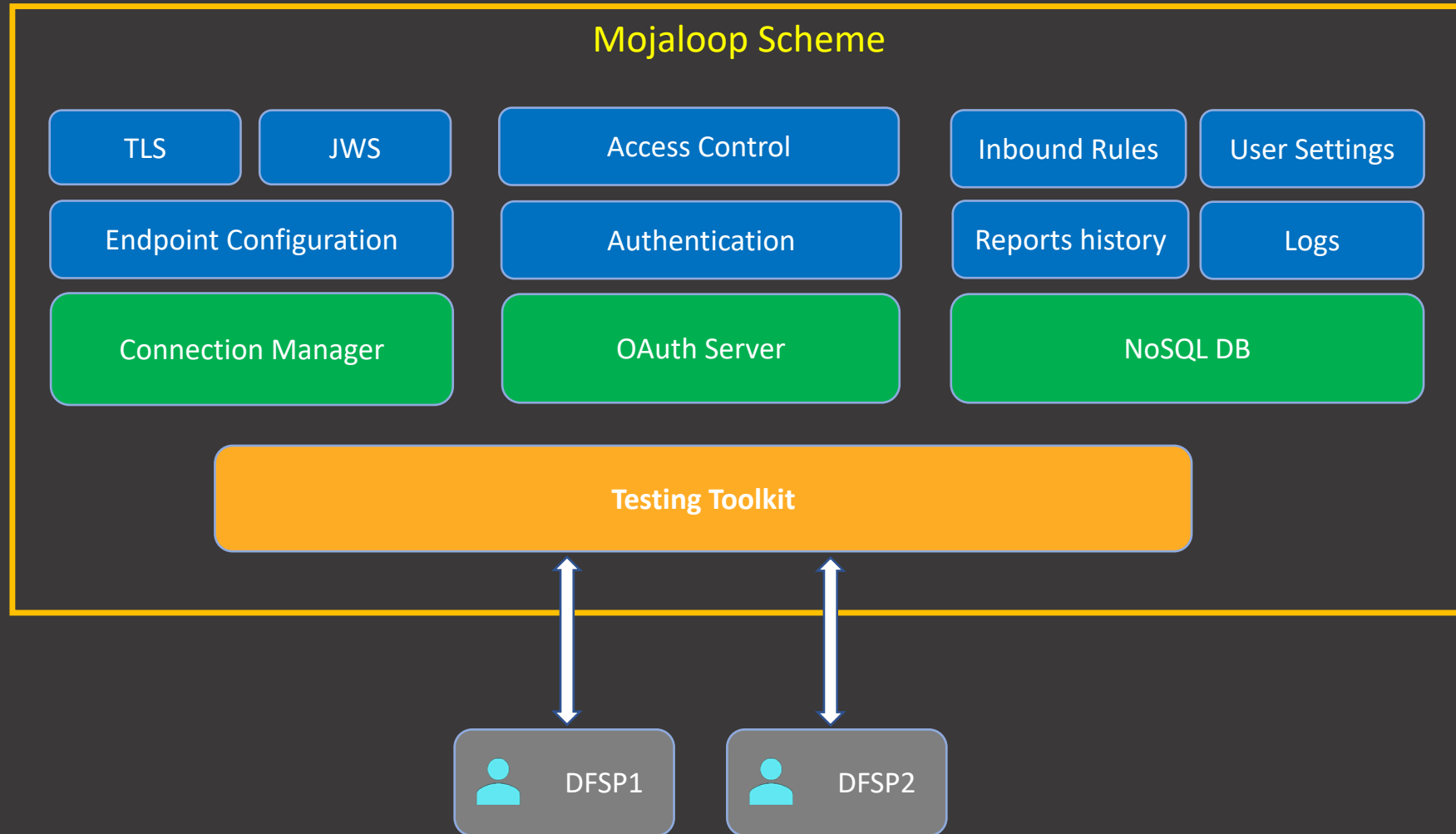
As a replacement for Postman



Scheduled Regression tests



# Adding Capability for Hosted Solution





# Testing toolkit: Demo

# Testing toolkit: Roadmap

## 1. Support wider adoption

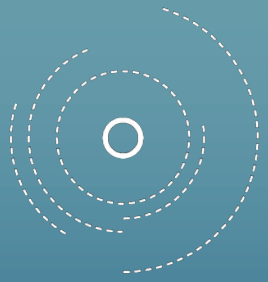
- a. Native javascript support for adding tests
- b. Capability to Validate Hubs for functionality
- c. Interact with implementers for requirements & support adoption for Validating FSPs, Hubs and Onboarding FSPs to Schemes
- d. Usage / UI enhancements based on community feedback

## 2. TTK enhancements

- a. Event Framework integration
- b. Sequence diagrams for default tests (based on event framework)
- c. Dashboards / home-screen with live data
- d. Distributed architecture: hosted solution micro-service architecture (to enhance load handling)
- e. Scenarios: DFSPs can download and select scenarios with step-by-step instructions for validating their functionality

## 3. Maintenance & Support

- a. Hardening of the TTK
- b. Training material (After PI-12)

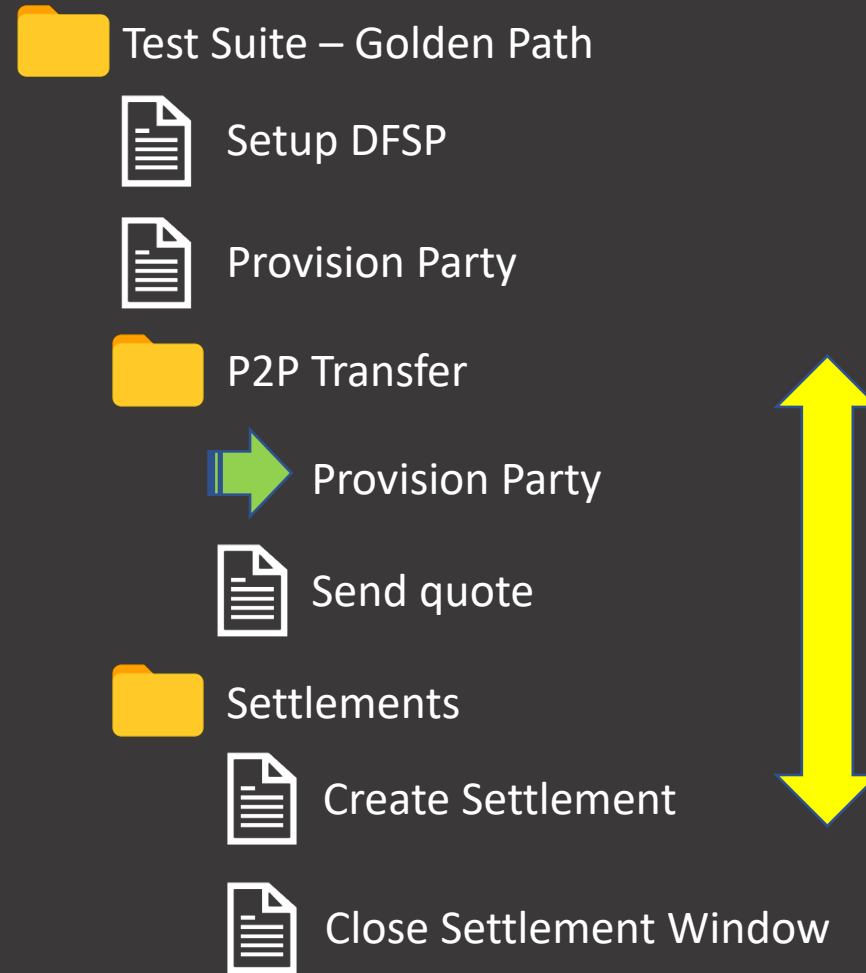


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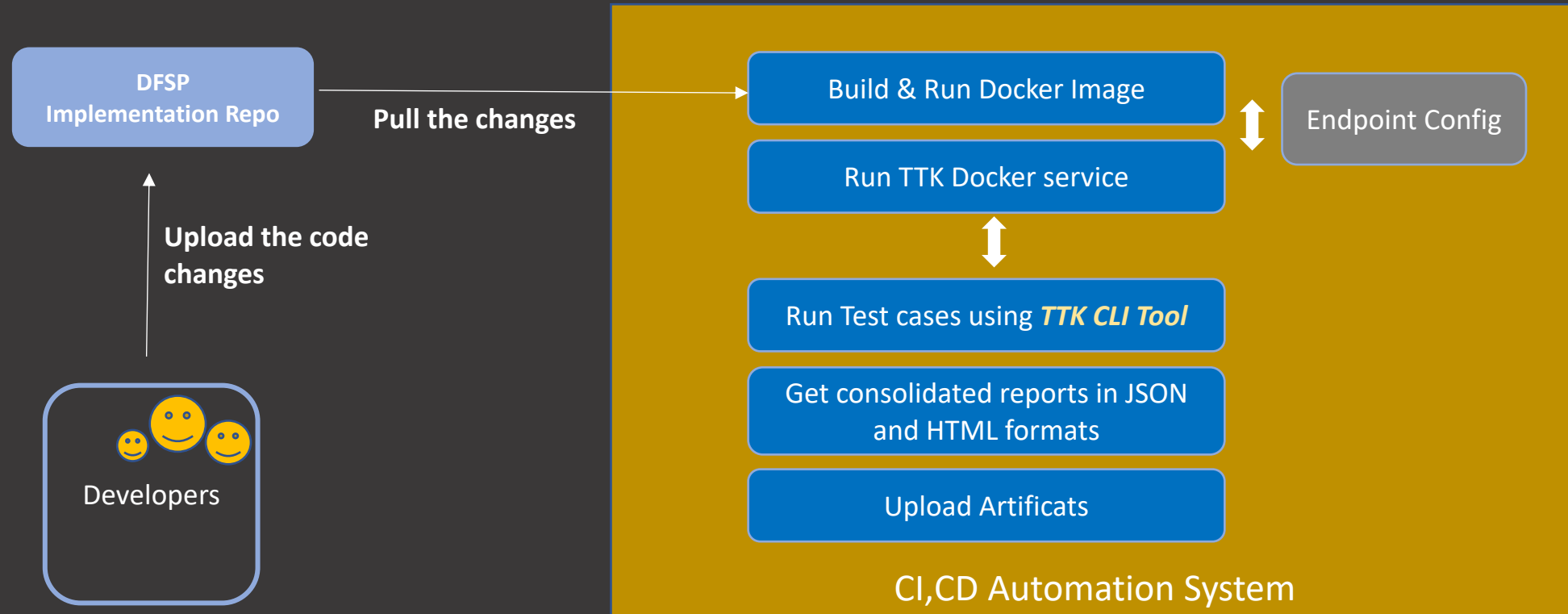
## Appendix

### Features, Improvements & Community Support

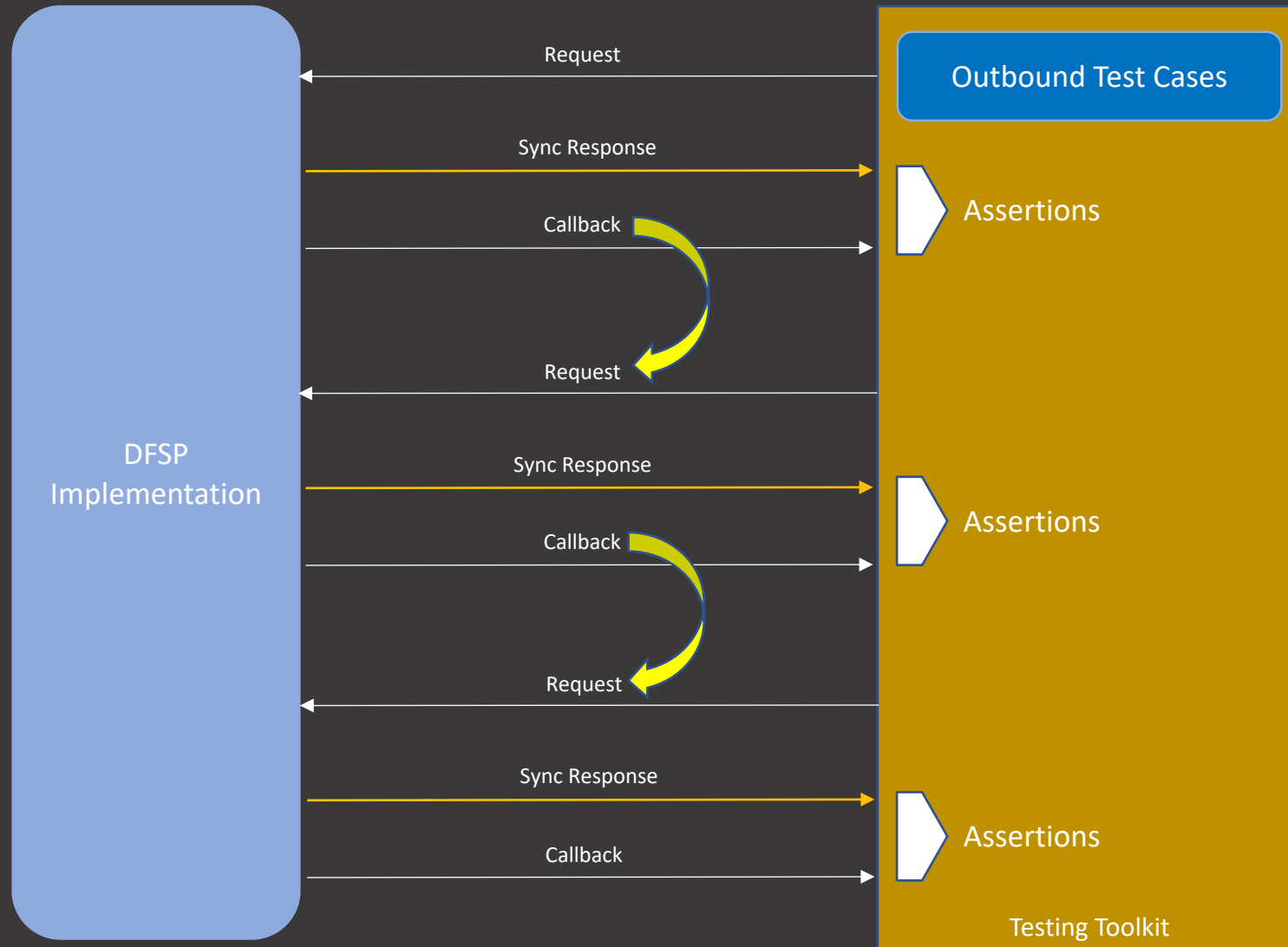
# Breakdown the large test case file into folder structure



# Integrating TTK into DFSP's CI, CD

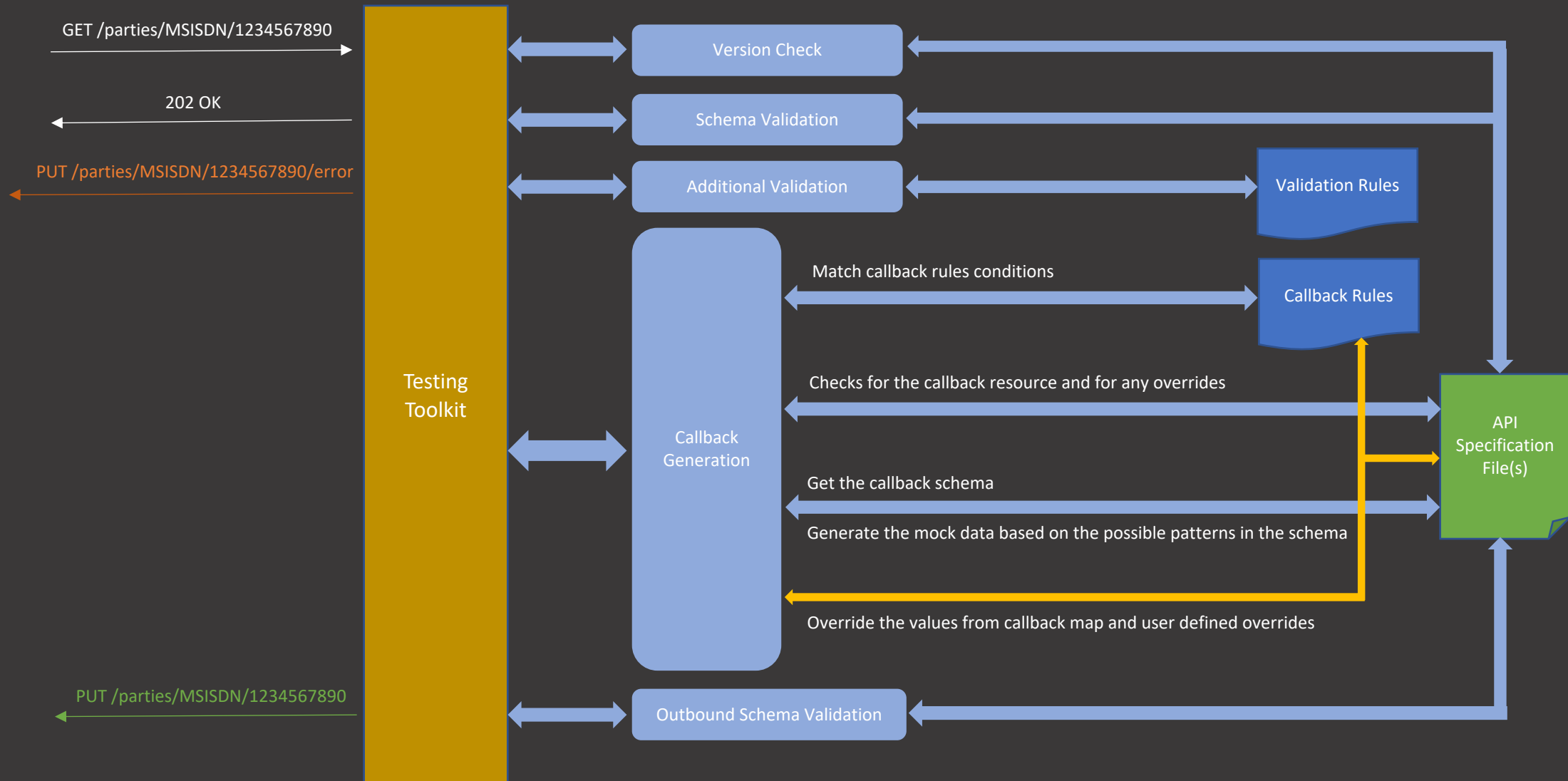


# How Testing Toolkit Works - Test Case Initiation and Assertions

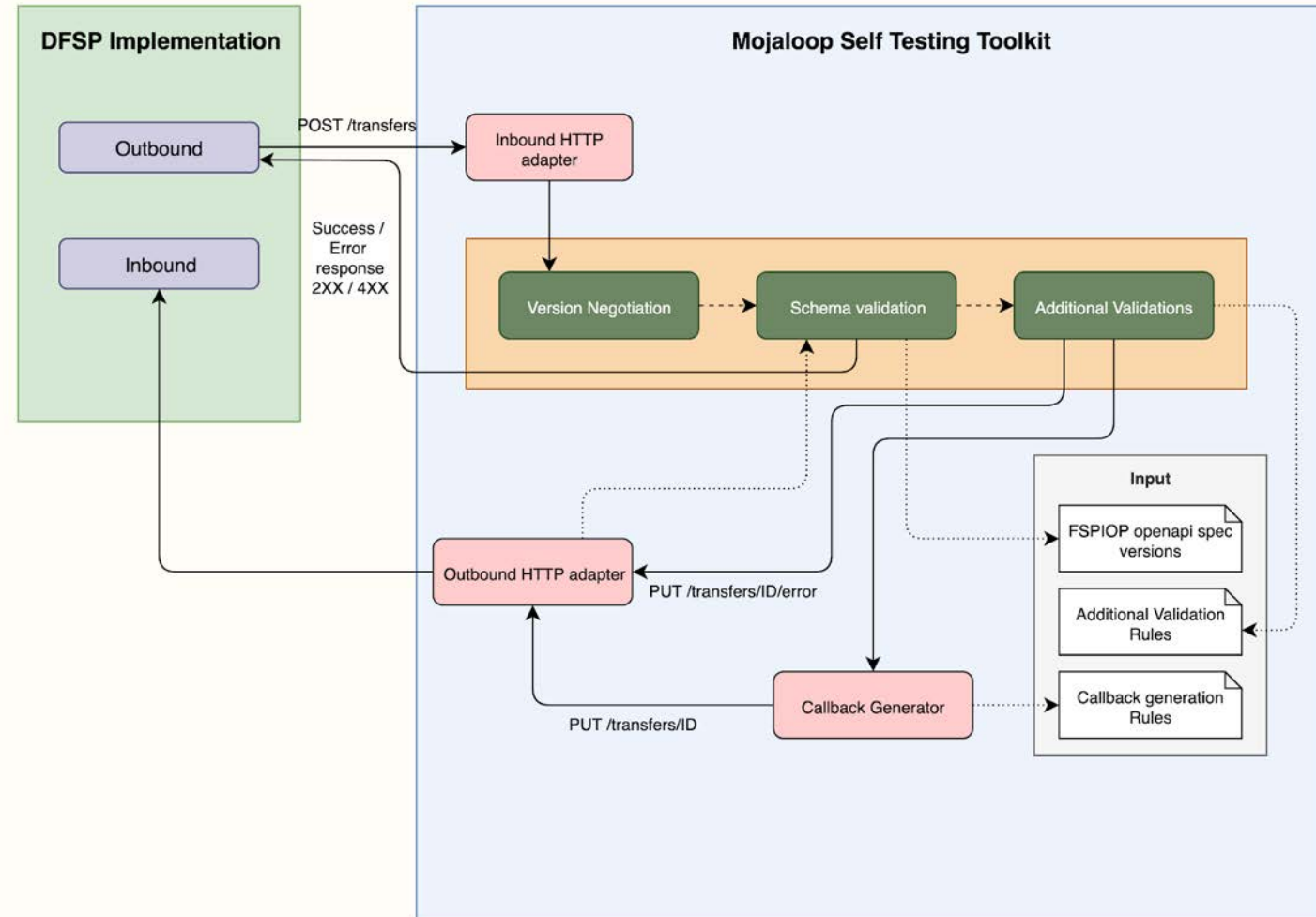




# How Testing Toolkit Works - Incoming requests



# Architecture Diagram – Part 1



# Architecture Diagram – Part 2

