

Mojaloop vNext Pl 22 Update

28 Jun 2023 vNext Team



Agenda

- Mojaloop vNext Introduction
- Progress Update
- Demo
- Next Steps



Mojaloop vNext Introduction

What is Mojaloop vNext?



Mojaloop vNext is the strict implementation

of the agreed Reference Architecture,

designed around its bounded context approach

What is Mojaloop vNext?



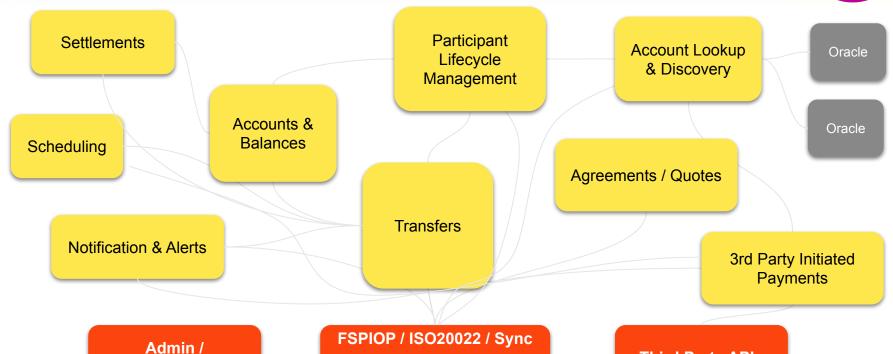
- Different architecture, built in parallel, codenamed vNext
- Same feature set, a future version, maybe v20?
- From the outside it is exactly the same FSPIOP v1.1 API
- When vNext is released, it will have a standard upgrade mechanism, SI's will have the ability to start working on custom upgrades as soon as alpha version is released

Bounded Context Approach

Operational API



Third Party APIs



APIs



Mojaloop vNext build progress update

Team focus in PI 21



Non-happy paths

Settlements Enhancements

Net Debit Cap

Test Coverage and Documentation

CI/CD Pipelines and Deployment

Alpha version release

Feature progress so far



Business Main Use Cases

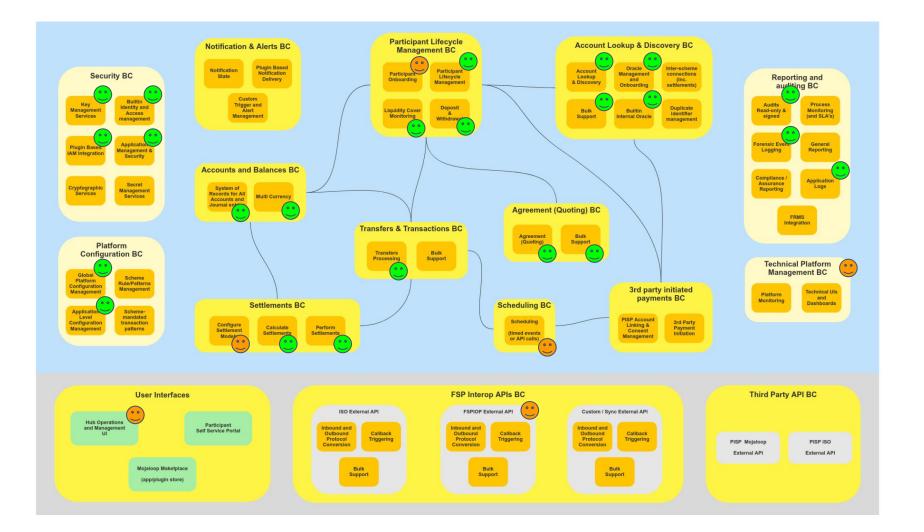
- Onboarding Hub and participants DONE
- Lookups ALS, Built-in Oracles, Remote Oracle DONE
- Quoting Single and Bulk DONE
- Clearing Transfer prepare and fulfil DONE
- Settlements Gen, querying and exec/settling of Matrix DONE
- Accounts & Balances CoA TigerBeetle or Built-in Ledger DONE

Feature progress so far



CrossCutting Concerns Main Use Cases

- Authentication Built-in and external IAM Adapter DONE
- Authorization Fine Permissions, RBAC and Maker Checker DONE
- Platform Configuration Config changes without redeploying DONE
- Auditing Dual stage envelope and crypto signature DONE
- Logging Central logging facility with plugable storage DONE
- Admin APIs and UI Onboarding, Lookups, Quotes, Transfers,
 Settlements, Configs, Security, Operational reports, etc WIP





Live Demo

Demo Notes



Test calls and screens are only enabled in development/test mode

All requests to and from the Mojaloop vNext have been going through the FSPIOP API

We'd like to get started with an PoC implementation of the ISO20022 API as soon as possible



When can you use it?

Promised Roadmap



Started Q		ces Q3 2022	Balances	Q1 2023	- Settlements -Transfers
	oss-cutting Q2 20 oncerns	- FSPIOP A - Accoun Lookup - Participar - Accounts a Balances	t nts and s	- Transfers - Quotes - Settlements Ve're Here!	Q2 2023 Alpha release target

Alpha release is ready!



You can test it now!

mini-loop-vnext - for everyone

https://github.com/mojaloop/mini-loop/tree/vnext-alpha

docker-compose - for devs

https://github.com/mojaloop/platform-shared-tools/tree/main/packages/deployment

What's in the Alpha release?

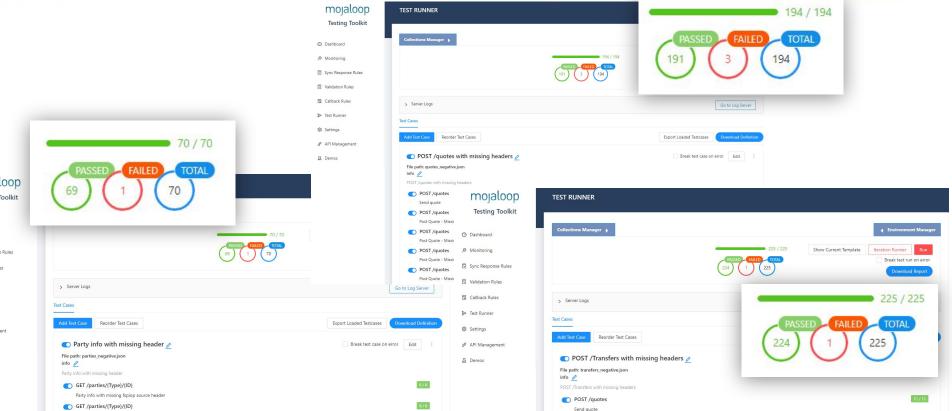


Happy paths and most non-happy paths for all main use cases - inc. cross cutting

- Onboarding Hub and participants
- Lookups ALS, Built-in Oracles, Remote Oracle
- Quoting Single and Bulk
- Clearing Transfer prepare and fulfil
- **Settlements** Generation, querying and execution/settling of Matrix
- Accounts & Balances CoA Backed by TigerBeetle or Built-in Ledger

Does it work?





How does it perform?



Very early test runs - this is alpha!

- 1 hour long with less than 1% above 1 sec
- Internal message based tests, with simulators (JMeter soon)
- Logs, audits, security and settlements enabled
- Optimizations not yet performed
- Single instance, minimal install
- Using the built-in ledger implementation

How does it perform?



~100

transfers per sec

~500

lookups per sec

(get party and get participant)

How does it perform?





What's missing from Alpha?



- Certificate and JWS validation Already designed
- Transfers Timeouts WIP
- Bulk Transfers
- Proper Performance Optimizations
- Custom Notifications
- More tests, more code cleanup and better documentation

What's missing from Alpha?



Feedback from

Brave Implementers

willing to try it!



Next Steps

Roadmap to Production (WIP)



Alpha
Released
Q3 2023

release
target

Q2 2023

Alpha release target - Feedback incorporation

- Perf Optimizations
- Missing features
- More tests and Docs

Q4 2023

- Feedback incorporation
- Perf Optimizations
- Missing features
- More tests and Docs

Release candidate target

Q1 2024



How we work



Fortnightly Workshops - Thursdays at 11:00 UTC

For developers - snapshot releases for docker compose and K8s available in GitHub

For non-developers - mini-loop:

https://github.com/mojaloop/mini-loop/tree/vnext-alpha



Team work - Thank you!



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Team work



ThitsaWorks

Experience Sharing