



Mojaloop vNext PI 22 Update

2 Nov 2023
Mojaloop vNext Team



Agenda

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



Mojaloop vNext Introduction

Path to Mojaloop vNext?



Performance PoC

(Q4 2020)

Reference Architecture

(Q2 2021)

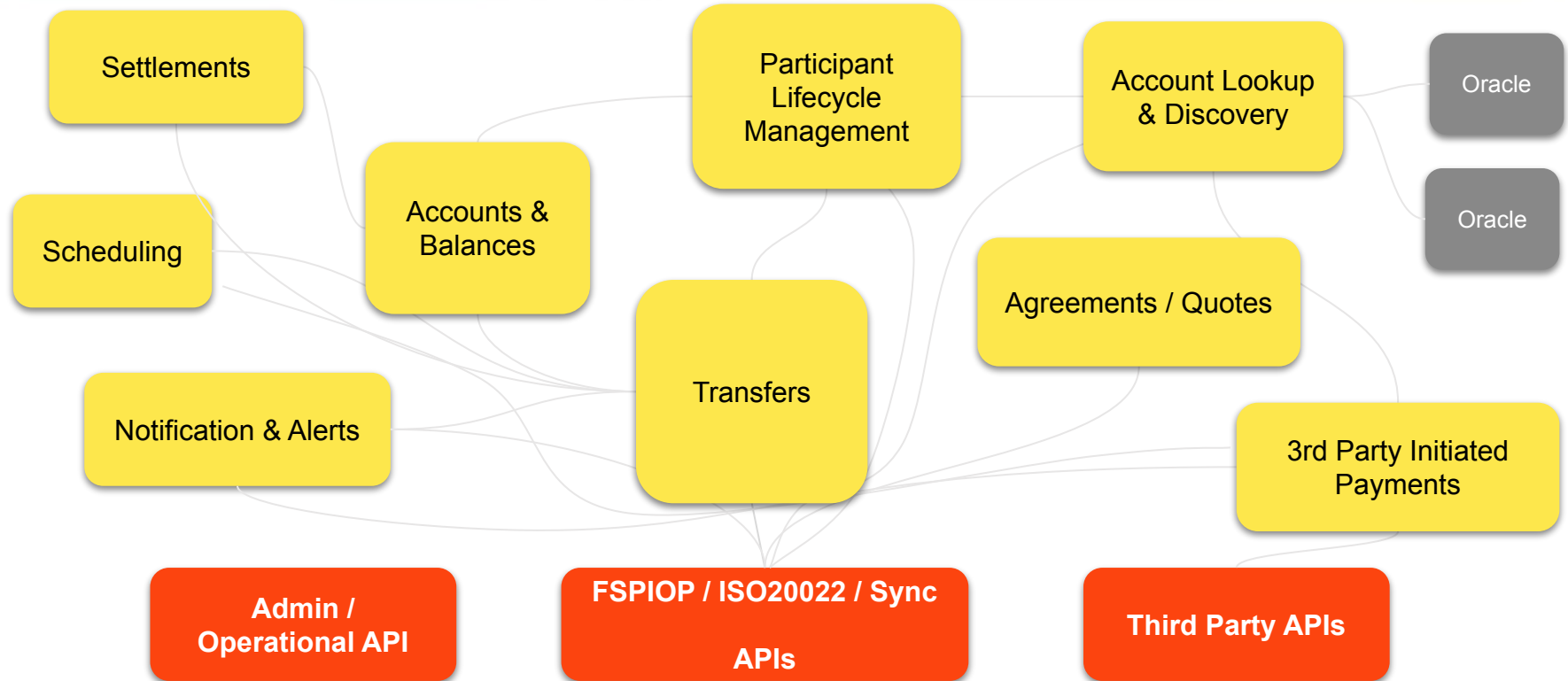
Reference Architecture Refresher



Goals for a reference architecture implementation

- Cleaner and Smaller codebases, with Less Dependencies
- Easier to Contribute and Extend
- Easier to Test, Deploy and Operate
- Secure, Performant at Scale and Cost Effective
- Mojaloop Marketplace

Bounded Context Approach



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?



- Based on the reference architecture, currently codenamed vNext, Future version name: Baobab, Release date (June 2024)
- Same feature set
- From the outside it is exactly the same FSPIOP v1.1 API
- Contains a standard upgrade mechanism
 - Current pre-release versions already available for SI's to work on custom upgrades



Mojaloop vNext build progress update

Team focus in PI 22



Non-happy paths

Participants - Contacts

Participants - Account Details

Settlements Enhancements

Transfers Timeouts

Bulk Transfers

User and Role Management

Team focus in PI 22



Auditing View

Reporting

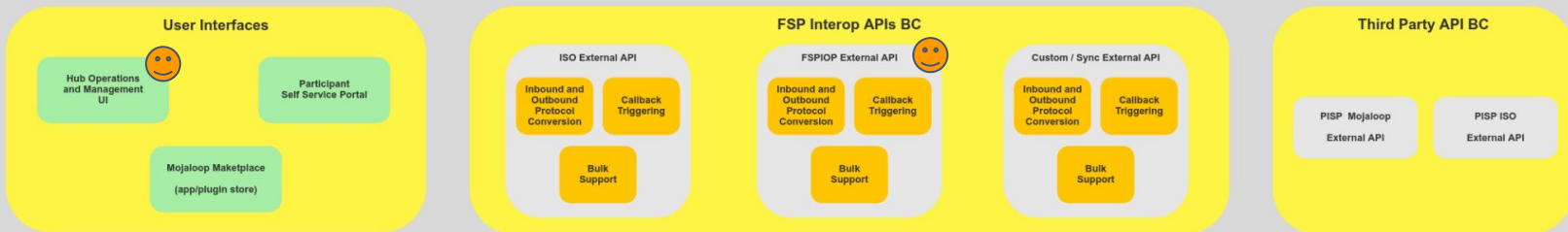
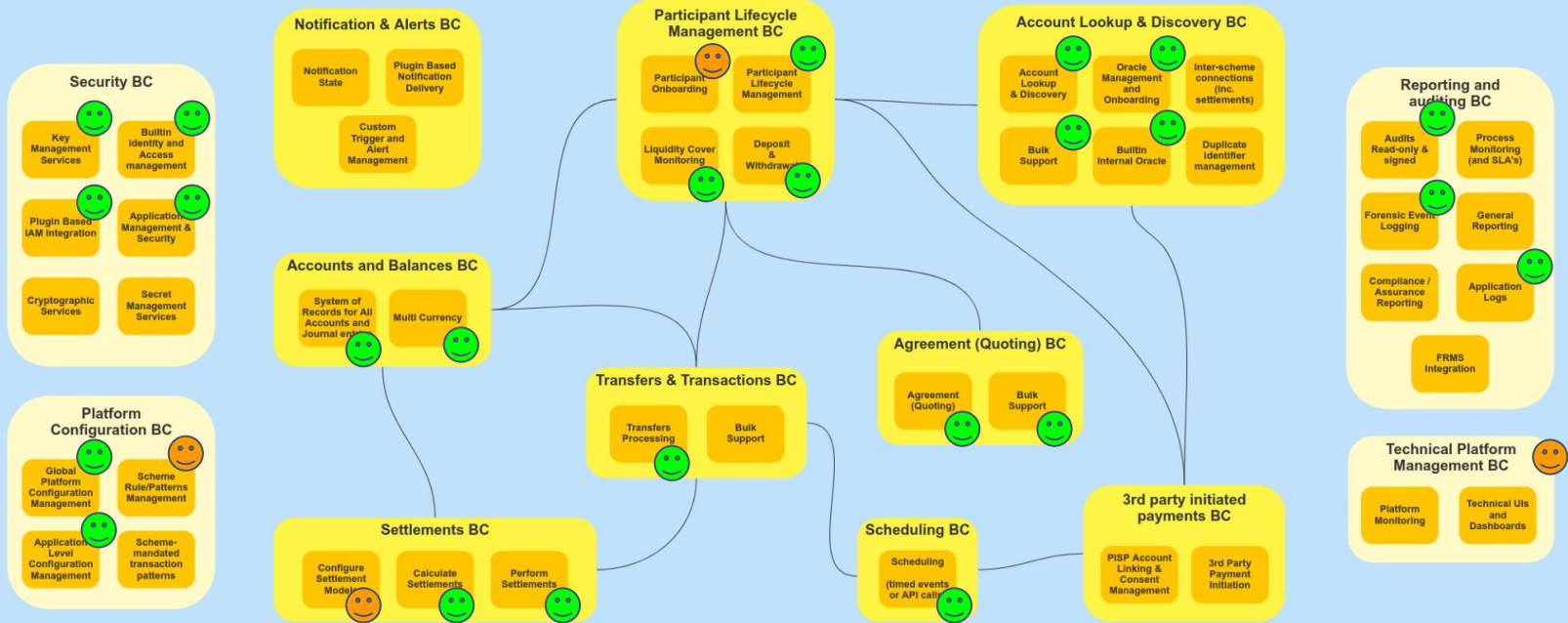
Application Performance Monitoring and Health Checks

Test Coverage and Documentation

CI/CD Pipelines and Deployment

Automatic execution of full integration tests

Beta version release work





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

Code Coverage Results



All files

91.70% Statements [1160/1261](#) 75.90% Branches [349/360](#) 65% Functions [333/334](#) 91.51% Lines [1396/1507](#)

Press n or / to go to the next uncovered block, b, p or k for the previous block.

Filter:

File	Statements	Branches	Functions	Lines
fsapi-api-ecv-ecv	86.54%	238/275	72.15%	577/9
fsapi-api-ecv-ecv-event_handlers	97.36%	37/38	94.11%	592/629
fsapi-api-ecv-ecv-http_routes	100%	6/6	100%	13/13
fsapi-api-ecv-ecv-http_routes/account-lookup-bc	93.33%	14/15	96.78%	269/309
fsapi-api-ecv-ecv-http_routes/quoting-bc	90.9%	10/11	96.81%	213/220
fsapi-api-ecv-ecv-http_routes/transfers-bc	81.81%	9/11	82.25%	172/209
fsapi-api-ecv-ecv-implementations/external_adapters	100%	3/3	88.88%	16/18
fsapi-utility-lib-ecv	87.23%	205/235	73.46%	304/49
fsapi-utility-lib-ecv-headers	100%	42/42	100%	9/9

All files

94.51% Statements [360/380](#) 93.87% Branches [245/260](#) 88.85% Functions [140/157](#) 94.49% Lines [360/380](#)

Press n or / to go to the next uncovered block, b, p or k for the previous block.

Filter:

File	Statements	Branches	Functions	Lines
account-lookup-ecv-ecv	97.24%	106/109	94.11%	32/34
account-lookup-ecv-ecv-http_routes	87.75%	85/98	60%	12/20
account-lookup-ecv-ecv-http_routes/base	100%	14/14	100%	5/5
client-lib-ecv	100%	4/4	100%	4/4
domain-lib-ecv	100%	4/4	100%	4/4
http-ecv-ecv-ecv	100%	4/4	100%	4/4
http-ecv-ecv-ecv-server	100%	4/4	100%	4/4
implementations-lib-ecv	100%	4/4	100%	4/4
implementations-lib-ecv-external_adapters	100%	4/4	100%	4/4
implementations-lib-ecv-http_routes	89.15%	74/83	100%	14/14
implementations-lib-ecv-http_routes/adapters/builtin	96.55%	56/58	57.14%	8/14
implementations-lib-ecv-http_routes/adapters/remote	95.12%	39/41	70%	7/10

All files

91.48% Statements [340/370](#) 92.06% Branches [245/265](#) 91.88% Functions [140/152](#) 91.48% Lines [333/365](#)

Press n or / to go to the next uncovered block, b, p or k for the previous block.

Filter:

File	Statements	Branches	Functions	Lines
external-handler-ecv-ecv	100%	4/4	100%	4/4
domain-lib-ecv	100%	4/4	100%	4/4
domain-lib-ecv-headers	100%	4/4	100%	4/4
event-handler-ecv-ecv	100%	4/4	100%	4/4
implementations-lib-ecv	100%	4/4	100%	4/4
implementations-lib-ecv-external_adapters	100%	4/4	100%	4/4
implementations-lib-ecv-http_routes	93.88%	133/142	84.63%	53/62
transfers-api-ecv-ecv	87.31%	117/134	88%	44/50
transfers-api-ecv-ecv-http_routes	97.43%	36/39	90.9%	20/22



5 failing

Testing Toolkit Results - Now



1319 Tests
Total

13 failing



Next Steps

Beta release end of November!



You can also test the alpha version already!

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>

Roadmap to Production (WIP)



How we work



Fortnightly Workshops - Thursdays at 11:00 UTC

All code on GitHub - Backlog on Zenhub

Pipelines and test results on CircleCi

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

For non-developers - mini-loop:

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

 **slack #vnext-build**

Team work - Thank you!



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