Mojaloop PI-11 (July 20-24ᵗʰ)

The Mojaloop Foundation believes that everyone benefits from an economy that includes everyone.

Mojaloop Links

- https://mojaloop.io/decks
- http://mojaloop.io/slack
- https://community.mojaloop.io/
- https://mojaloop.io/documentation/
- https://mojaloop.io/
- https://community.mojaloop.io/c/events/community-events/11
- https://Mojaloop.io/vote

Level One Design Principles

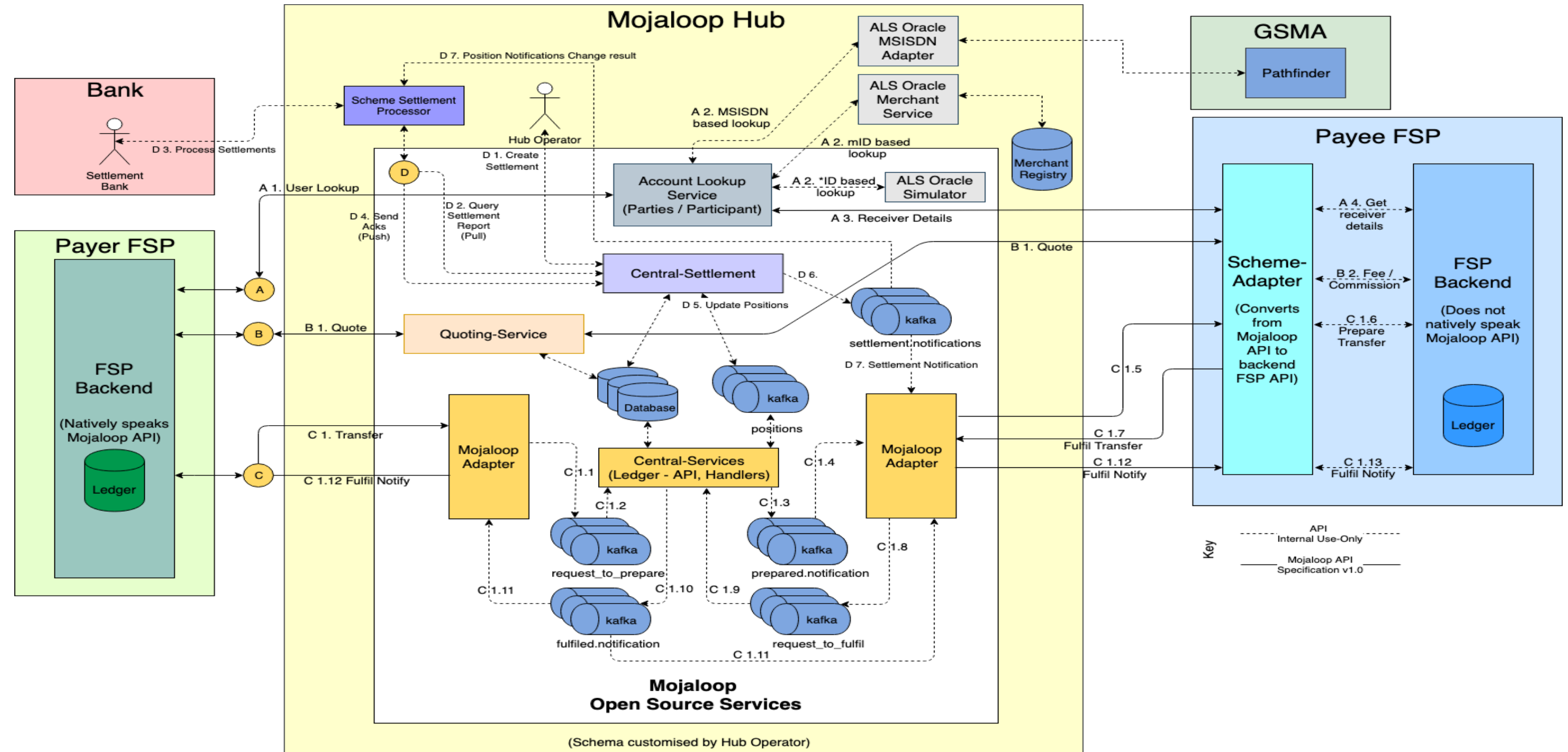- Open Loop
- Push Payments
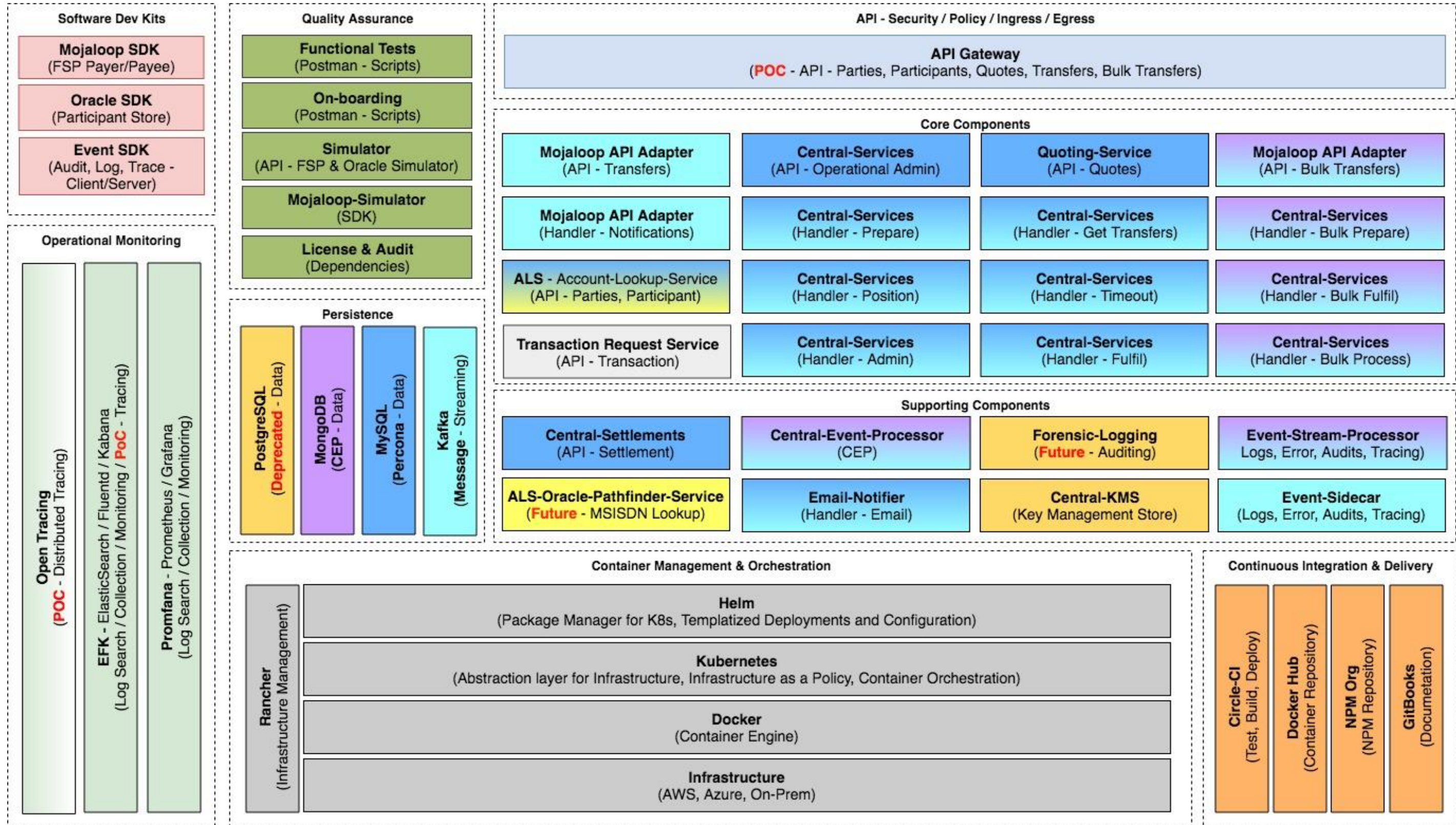- Immediate Clearing
- Net Settlements
- Irrevocable

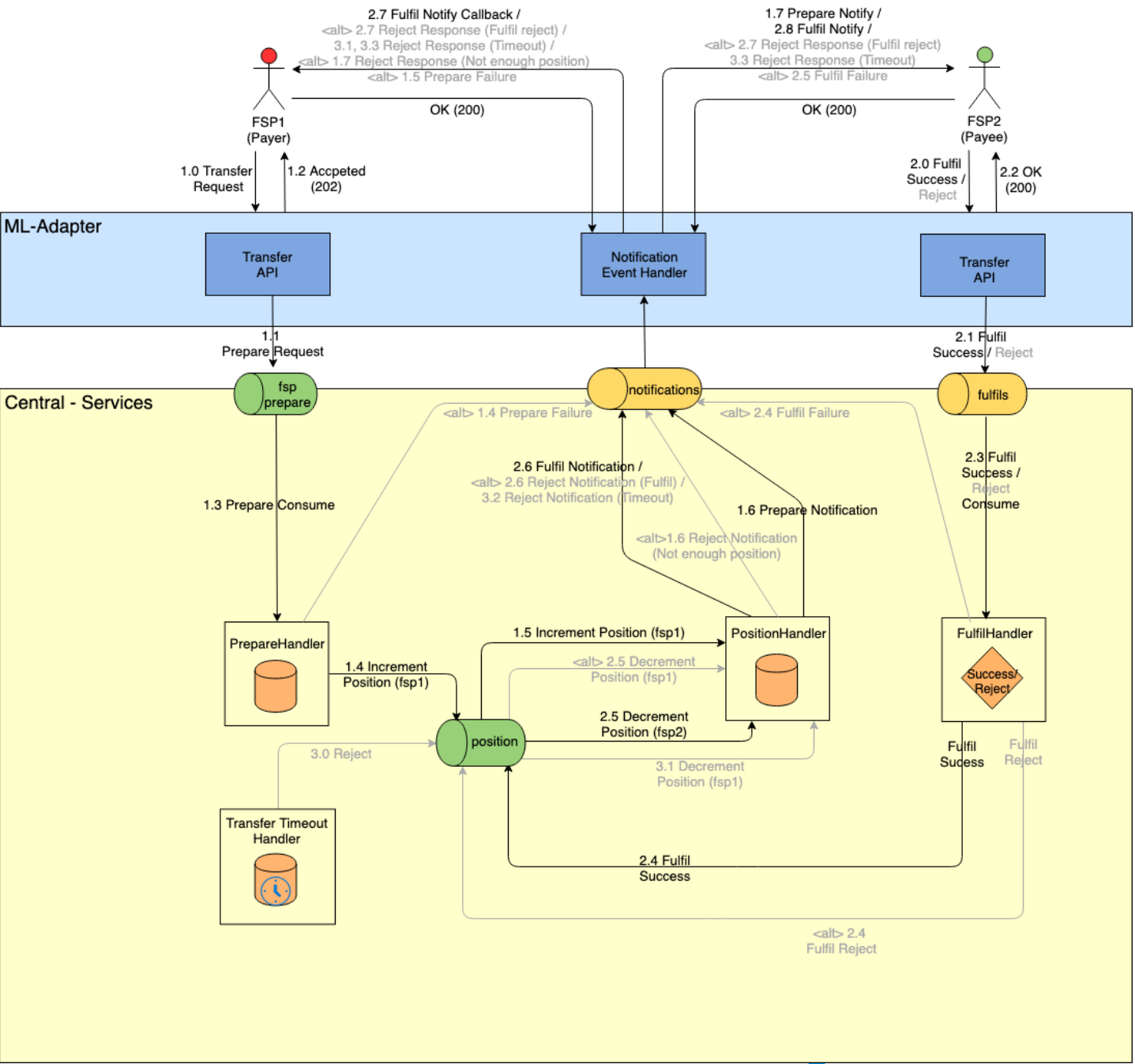| Phase 4 - Program Increment Schedule				
Phase 4: PI 11	7/20/2020	7/24/2020	5 days	*Remote*
11.1	7/27/2020	8/9/2020	2 weeks	
11.2	8/10/2020	8/23/2020	2 weeks	
11.3	8/24/2020	9/6/2020	2 weeks	
11.4	9/7/2020	9/20/2020	2 weeks	
11.5	9/21/2020	10/4/2020	2 weeks	
11.6	10/5/2020	10/18/2020	2 weeks	
Phase 4: PI 12	10/19/2020	10/22/2020	3.5 days	*Zanzibar*
12.1	10/26/2020	11/8/2020	2 weeks	
12.2	11/9/2020	11/22/2020	2 weeks	
12.3	11/23/2020	12/6/2020	2 weeks	
12.4	12/7/2020	12/20/2020	2 weeks	
12.5	12/21/2020	1/3/2021	2 weeks	
12.6	1/4/2021	1/24/2021	3 weeks	
Phase 4 Wrap-up	1/25/2021	1/28/2021	3.5 days	*Johannesburg*

System Diagram

Component Diagram

Software Dev Kits

Mojaloop SDK
(FSP Payer/Payee)

Oracle SDK
(Participant Store)

Event SDK
(Audit, Log, Trace - Client/Server)

Quality Assurance

Functional Tests
(Postman - Scripts)

On-boarding
(Postman - Scripts)

Simulator
(API - FSP & Oracle Simulator)

Mojaloop-Simulator
(SDK)

License & Audit
(Dependencies)

Operational Monitoring

Open Tracing
(**PoC** - Distributed Tracing)

EFK - ElasticSearch / Fluentd / Kabana
(Log Search / Collection / Monitoring / **PoC** - Tracing)

Promfana - Prometheus / Grafana
(Log Search / Collection / Monitoring)

Persistence

PostgreSQL (**Deprecated** - Data)

MongoDB (CEP - Data)

MySQL (Percona - Data)

Kafka (Message - Streaming)

API - Security / Policy / Ingress / Egress

API Gateway
(**POC** - API - Parties, Participants, Quotes, Transfers, Bulk Transfers)

Core Components

Mojaloop API Adapter (API - Transfers)	**Central-Services** (API - Operational Admin)	**Quoting-Service** (API - Quotes)	**Mojaloop API Adapter** (API - Bulk Transfers)
Mojaloop API Adapter (Handler - Notifications)	**Central-Services** (Handler - Prepare)	**Central-Services** (Handler - Get Transfers)	**Central-Services** (Handler - Bulk Prepare)
ALS - Account-Lookup-Service (API - Parties, Participant)	**Central-Services** (Handler - Position)	**Central-Services** (Handler - Timeout)	**Central-Services** (Handler - Bulk Fulfil)
Transaction Request Service (API - Transaction)	**Central-Services** (Handler - Admin)	**Central-Services** (Handler - Fulfil)	**Central-Services** (Handler - Bulk Process)

Supporting Components

Central-Settlements (API - Settlement)	**Central-Event-Processor** (CEP)	**Forensic-Logging** (**Future** - Auditing)	**Event-Stream-Processor** Logs, Error, Audits, Tracing)
ALS-Oracle-Pathfinder-Service (**Future** - MSISDN Lookup)	**Email-Notifier** (Handler - Email)	**Central-KMS** (Key Management Store)	**Event-Sidecar** (Logs, Error, Audits, Tracing)

Container Management & Orchestration

Rancher (Infrastructure Management)

Helm
(Package Manager for K8s, Templatized Deployments and Configuration)

Kubernetes
(Abstraction layer for Infrastructure, Infrastructure as a Policy, Container Orchestration)

Docker
(Container Engine)

Infrastructure
(AWS, Azure, On-Prem)

Continuous Integration & Delivery

Circle-CI (Test, Build, Deploy)

Docker Hub (Container Repository)

NPM Org (NPM Repository)

GitBooks (Documentation)

Bulk Transfers	Transfers Architecture

Event Framework

PISP Transfers