

Fiat Payment Provider

HKT Finance

Tokenization Provider

VSFG

1. Account Operator (AO Service)

Provides public REST API with main PwG functionality: sys.admin functions; user onboarding; user's account and permission management, finance management. Proxies queries from institution app through to pw.g, validating authentication and resolving (e.g.) account references

Maintains (primarily config / preference) data on participants (wallet providers - clients of pw.g) available for use in account management, on/off-ramping and other operations

Masters data on pw.g accounts, exposed through lifecycle management and querying (i.e. CRUD) APIs on account objects. Includes setting/getting compliance-related restrictions on accounts to participate in transactions.

2. Dashboard WebApp

Showcases capabilities from an AO perspective. Exposes AO-specific features, e.g. credentials & permissions management

3. Identity Service

Vends access token to all kind of users (including 3rd party services) in response to authentication flows

4. KYC AML Hub

Smart gateway to forward and schedule updates for user's KYC from different providers.

5. KYC Connector (Gateway)

Service for integration KYC provider to PwG ecosystem. Transforms all standardized requests from KYC HUB to KYC provider REST API.

6. Finclusiv

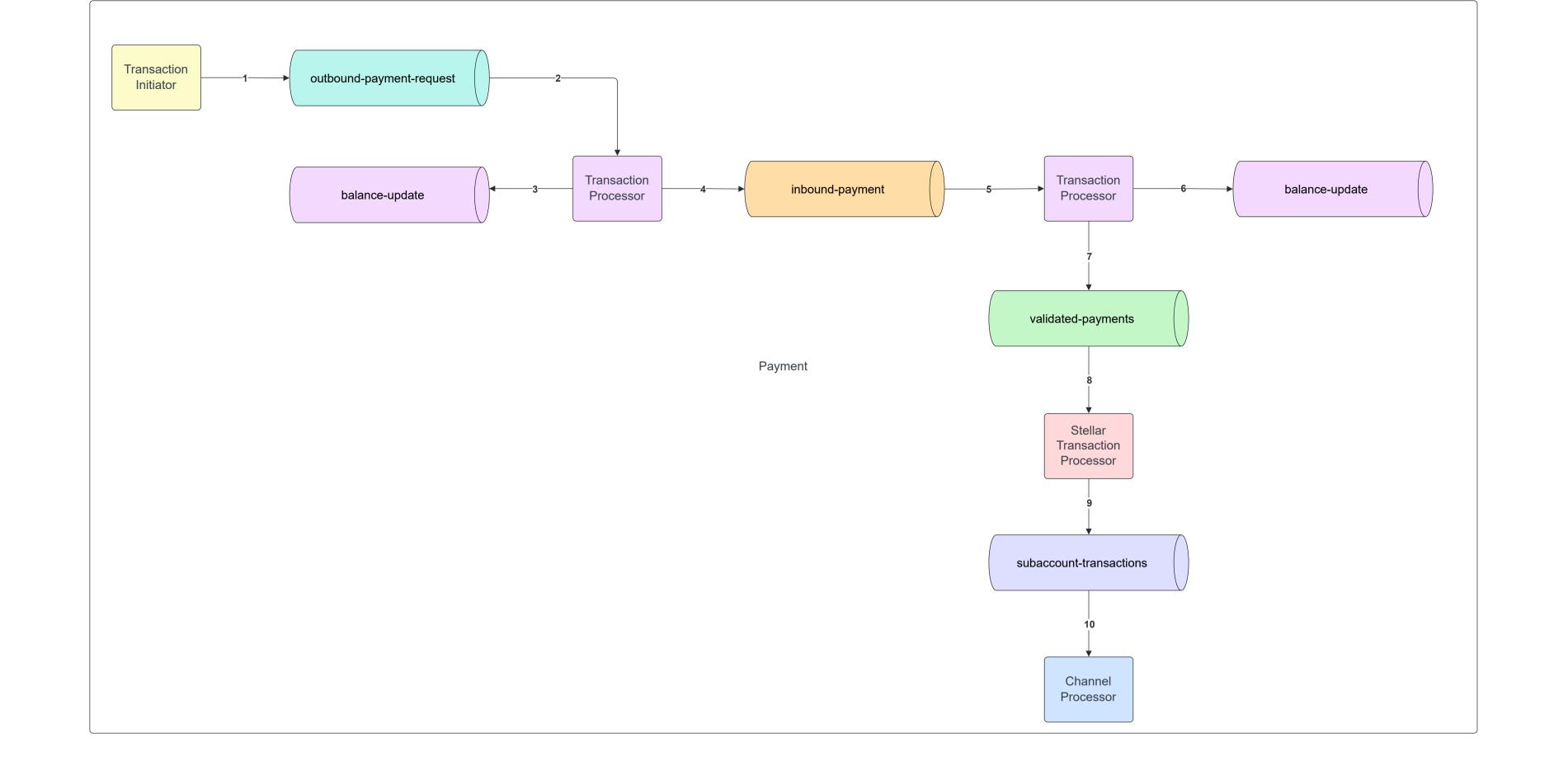
Main KYC Parntner. Provides due diligence on individuals and legal entities. Used to source data for asserting KYC compliance over end-users

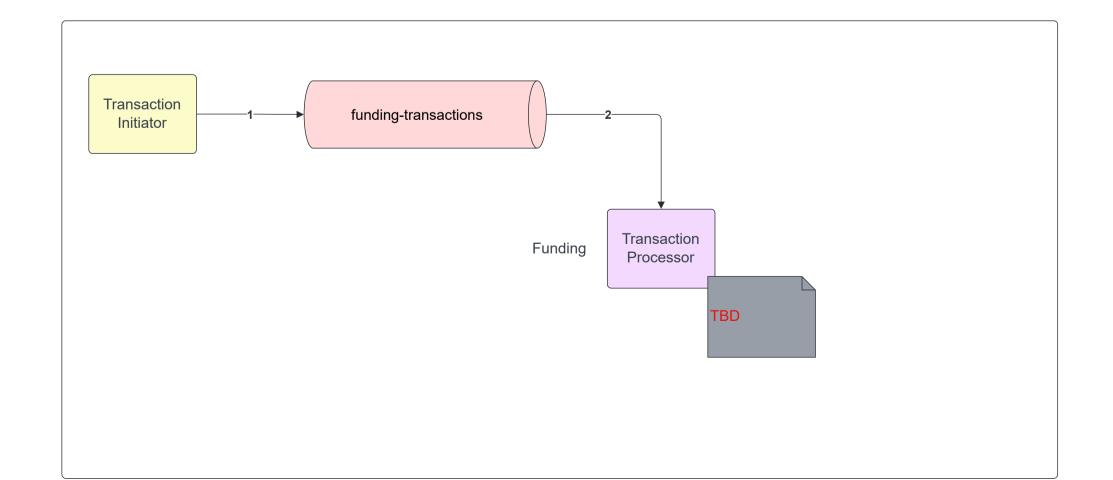
7. API Gateway (Request Router)

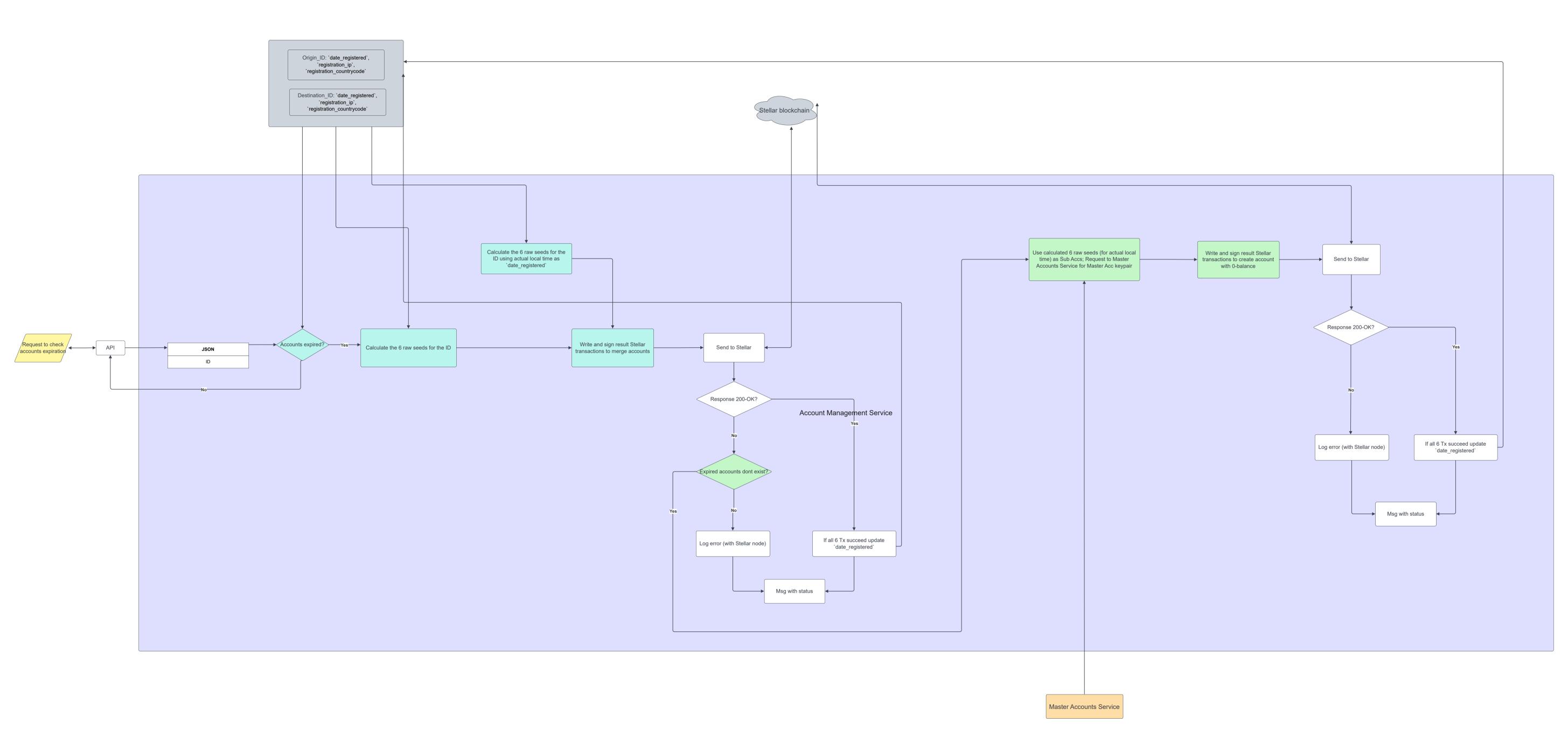
Routes inbound requests to the relevant core service for a given data

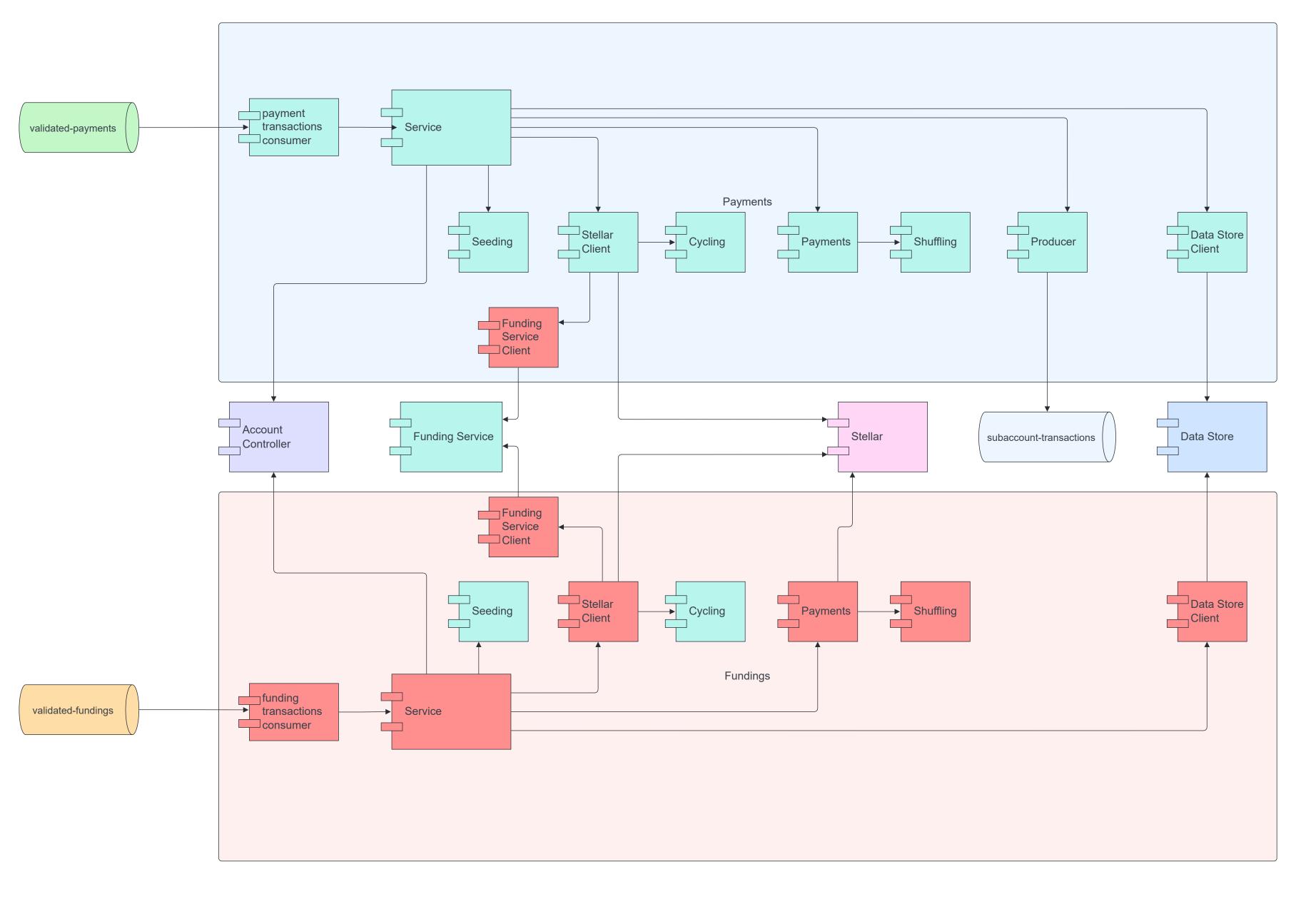
8. Core Service Mock (Sandbox)

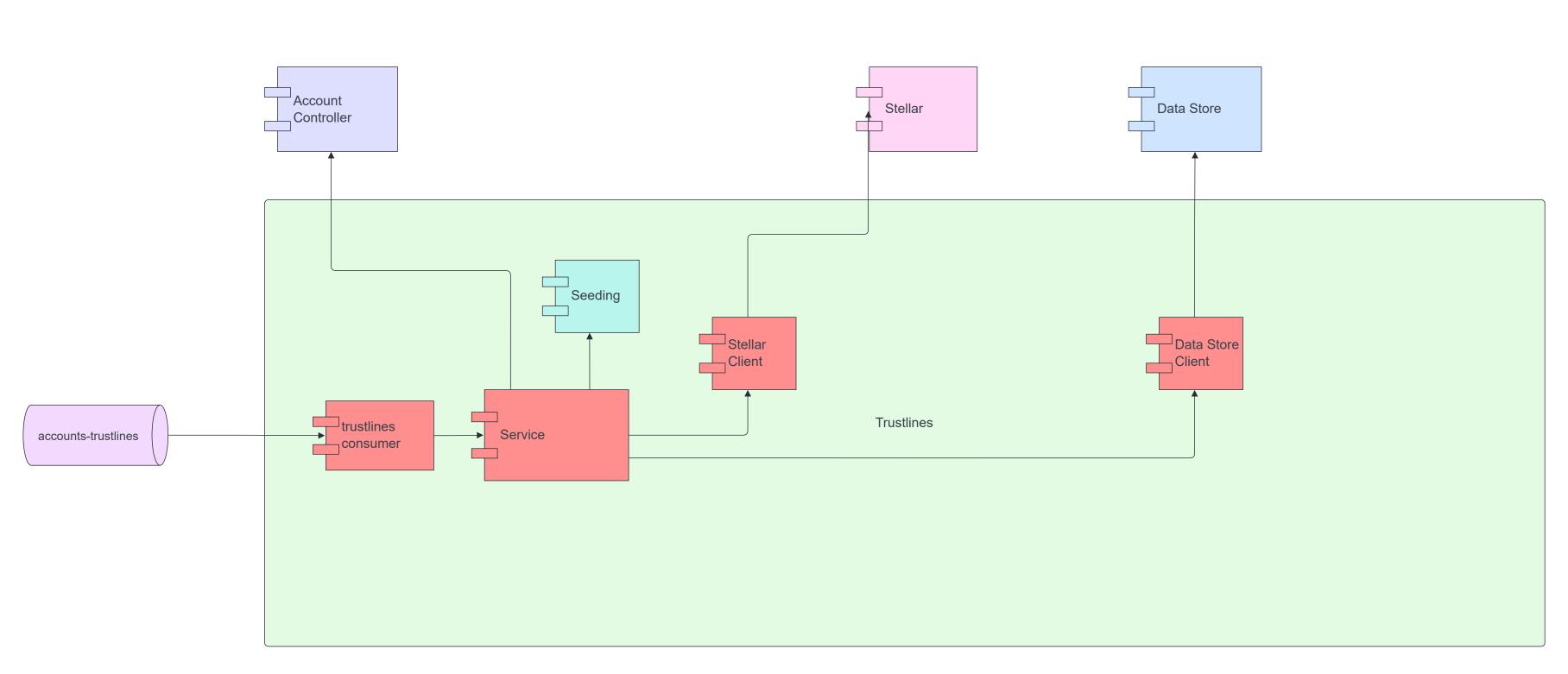
Emulates all Core service functionality for test user's account for finance management and transaction processing without use of real components like blockchain

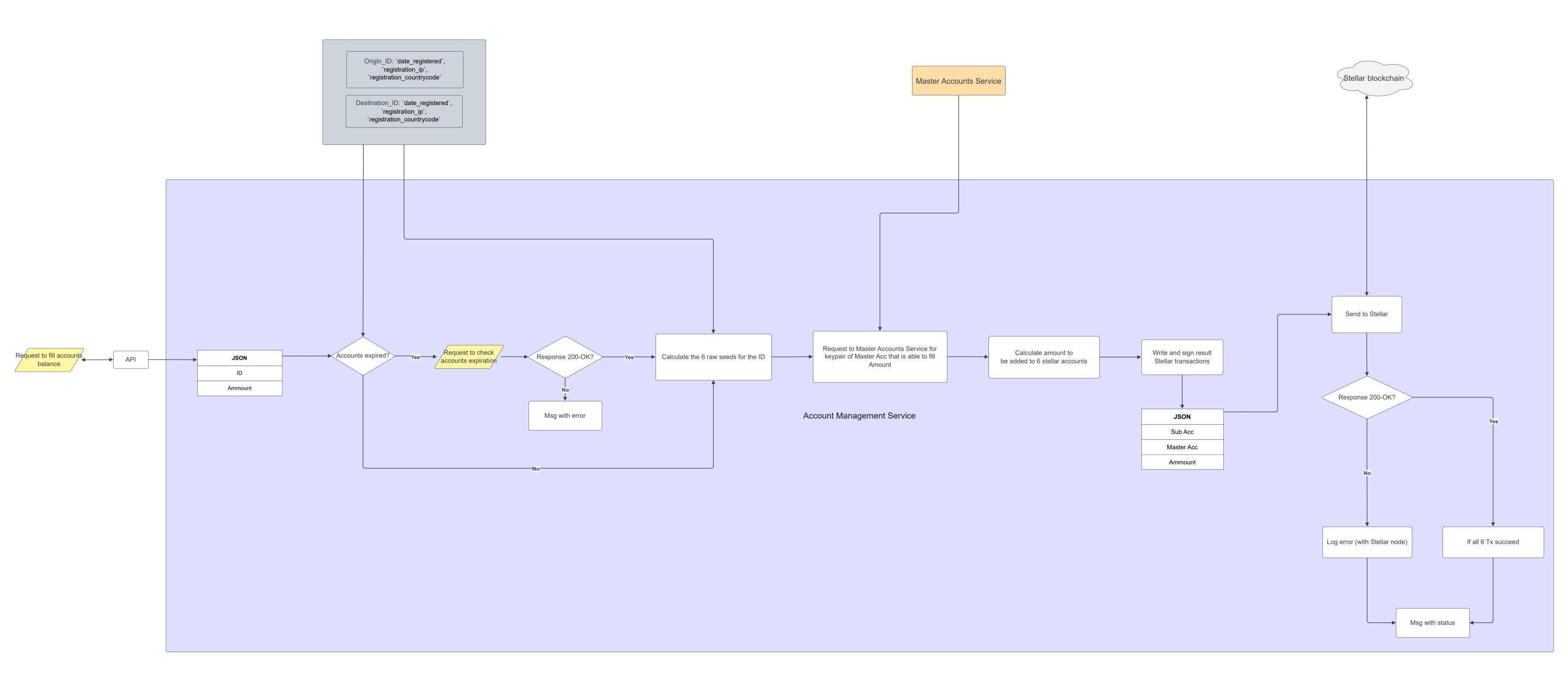


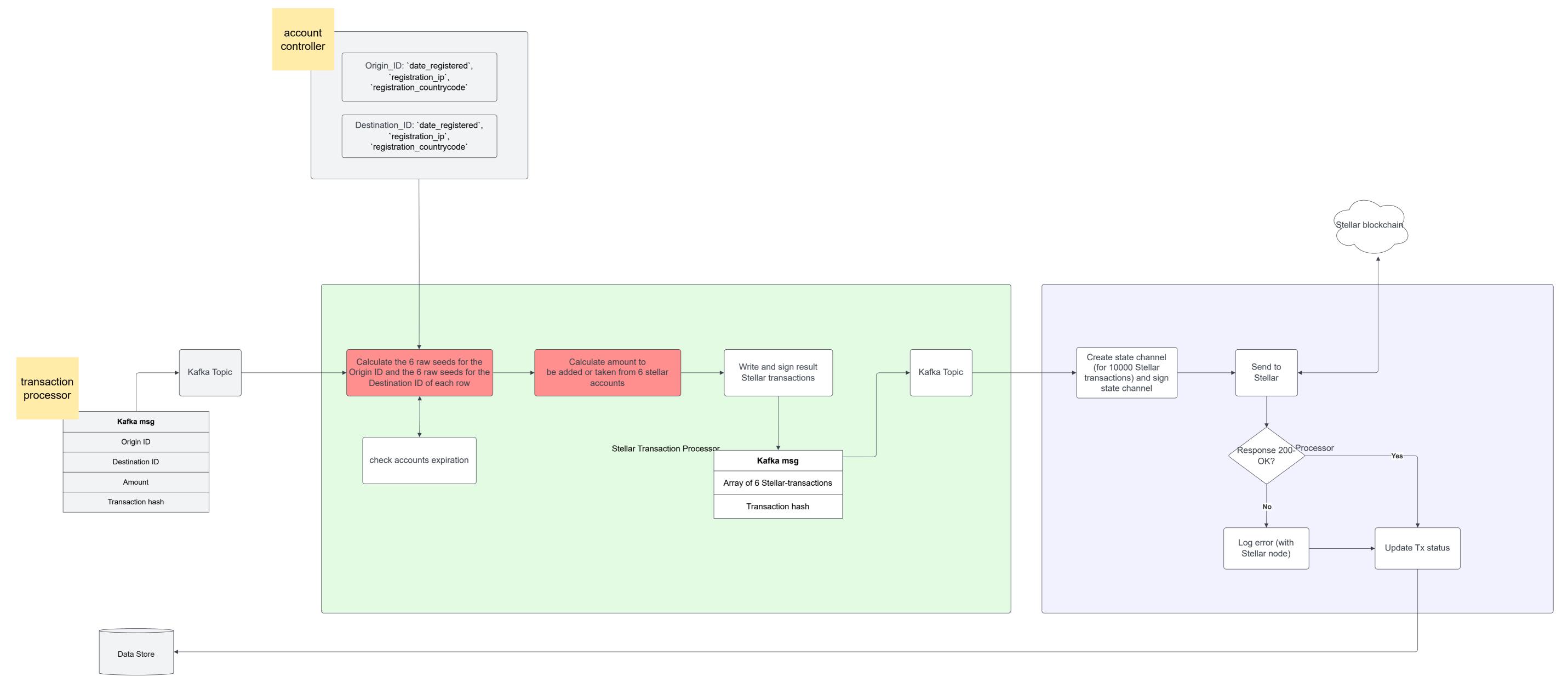






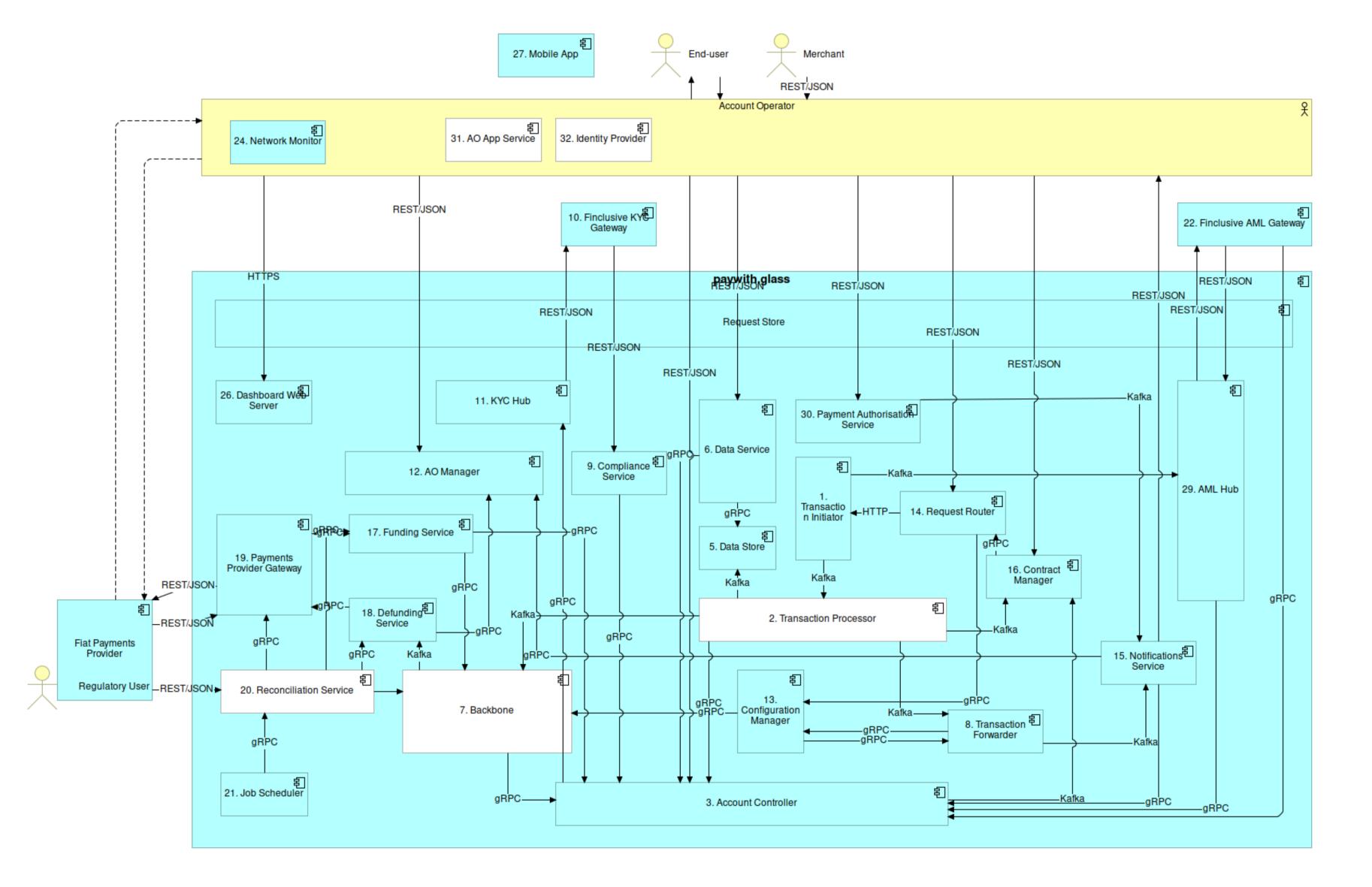






The platform comprises a number of discrete, loosely-coupled applications/services interconnected using standard technologies.

All services will have high-availability support with state data replicated between host nodes. Each service is designed to be independently deployable, hence supporting a range of deployment models with varying degrees of centralisation.



1. Transaction Initiator: Passes transactions to request queue and listens for outcomes to respond to user	17. Funding Service: Listens to inbound payments to dFMI and triggers corresponding issuances of dSterling onto the ledger
2. Transaction Processor: Performs checks to validate inbound transaction reque	18. Defunding Service: Listens for transactions which reflect off-ramping of dSterling and executes corresponding off-ledger payments
3. Account Controller: Masters data on pw.g accounts, exposed through lifecycle 客 management and querying (i.e. CRUD) APIs on account objects. Includes setting/getting compliance-related restrictions on accounts to participate in	19. Payments Provider Gateway: Provides format translation to generalise / connegt Modulr-specific interfaces to pw.g-generic services.
6. Data Service: Provides querying operations on historic transactions and accou balances	20. Reconciliation Service: Sources balance information from external payment processors, backbone and funding/defunding services to produce reconciliation reports demonstrating equality of assets on ledger vs. in backing reserves
7. Backbone: Receives and processes settlement (ensuring finality) of transactio	21. Job Scheduler: Executes arbitrary jobs at pre-scheduled intervals; reports on 訂 execution failures
8. Transaction Forwarder: Forwards transaction messages to topic(s) partitioned between the payee to enable timely refresh of local balances.	22. Finclusive AML Gateway: Sources compliance assertions from Finclusive when needed to maintain compliance for accounts
9. Compliance Service: Retains record of compliance assertions provided for eace account. Monitors compliance assertions against defined policy (minimum KYC	24. Network Monitor: Monitors network latency between AO locations and pw.g nodes, sending feedback to the configuration manager to inform account re-homing decisions
requirements) and applies account restrictions (via Account Manager) when	27. Mobile App: Showcases capabilities from an end-user perspective 复
10. Finclusive KYC Gateway: Sources compliance assertions from Finclusive whe	26. Dashboard Web Server: Showcases capabilities from an AO perspective. Exposes AO-specific features, e.g. credentials & permissions management
11. KYC Hub: Directory of KYC providers. Also handles pass-through authenticatie្នា	29. AML Hub: Routes transactions through to the relevant AML gateway for externঞ্ছা transaction monitoring
12. AO Manager: Maintains (primarily config / preference) data on participants (wallet providers - clients of pw.g) available for use in account management, on/off- ramping and other operations	30. Payment Authorisation Service: Caches payment requests to be processed following acquisition & approval by an account
13. Configuration Manager: Maintains / serves mappings of accounts to individua Kafka queues to enable accurate routing	31. AO App Service: Proxies queries from mobile app through to pw.g, validating authentication and resolving (e.g.) account references
14. Request Router: Routes inbound transaction requests to the relevant instanceg for a given account	32. Identity Provider: Vends session tokens to mobile app clients in response to
15. Notifications Service: Provides push notifications to the wallet providers for keger events (inbound payments, account lifecycle events, etc.)	authentication flows
16. Contract Manager: Allows definition and re-use of custom logic governing transactions - scheduled events, testing external conditions etc.	
Finclusive: Provides due diligence on individuals and legal entities. Used to source da asserting KYC compliance over end-users	ata for

Fiat Payments Provider: Provides account management and inbound/outbound payments for traditional fiat currencies. Used to enable on-/off-ramping of dSterling vs. GBP