COINPORT PAY

AccountActor

- manager accounts
- manager access tokens
- manage api calling history/stats

api: CreateApiToken
api: DestoryApiToken
api: DestoryAllApiTokens
api: DisableAccount
api: ValidateToken

InvoiceActor

- generate new invoices
- keeps invoices that could change status in memory
- update invoice status
- notify InvoiceAccessActor new invoice states

api: GetBestBidRates

SellBitcoin GetBestBidRates

BestRateUpdated

L2MarketActor

(singleton)
- maintains level-2 market depths
- calculate exchange rates for different levels
- submit orders on external markets
- periodically update external balance

api: GetPlatformBalances

NotifyMerchants

CreateInvoice BitcoinTxSeen BitcoinBlocks

InvoicesUpdated

SendBitcoin GetPlatformBalance

PlatformBalanceUpdated

SellBitcoin

L1MarketUpdated BitcoinSold

NotificationActor

(shardable)
- should be shared for parallel ping back
- need to schedule ping back if failed
- support ping back strategy

InvoiceAccessActor

- read from HBase events and update MongoDB
- answers all queries

api: GetInvoice

BlockchainActor

- generate new address
- monitor related tx and blocks
- monitor re-orgs
- connect to bitcoind
- delete unused keys (0 balance in 6 block)
- periodically update L2Manager regarding total platform balances

api: CreateInvoice

L1MarketActor

- periodically update L2MarketActor
- sell bitcoin at expected price