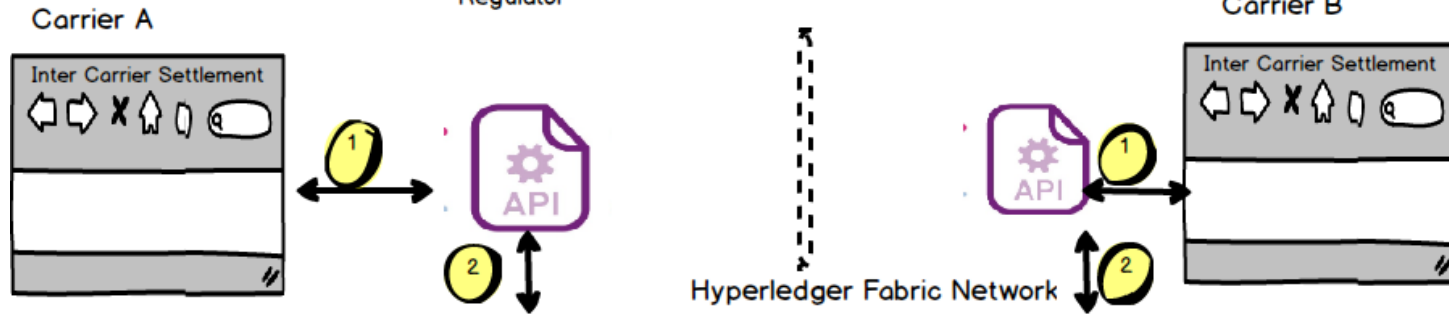


Example of InterCarrier Settlement with Two Carrier (A&B) and Regulator



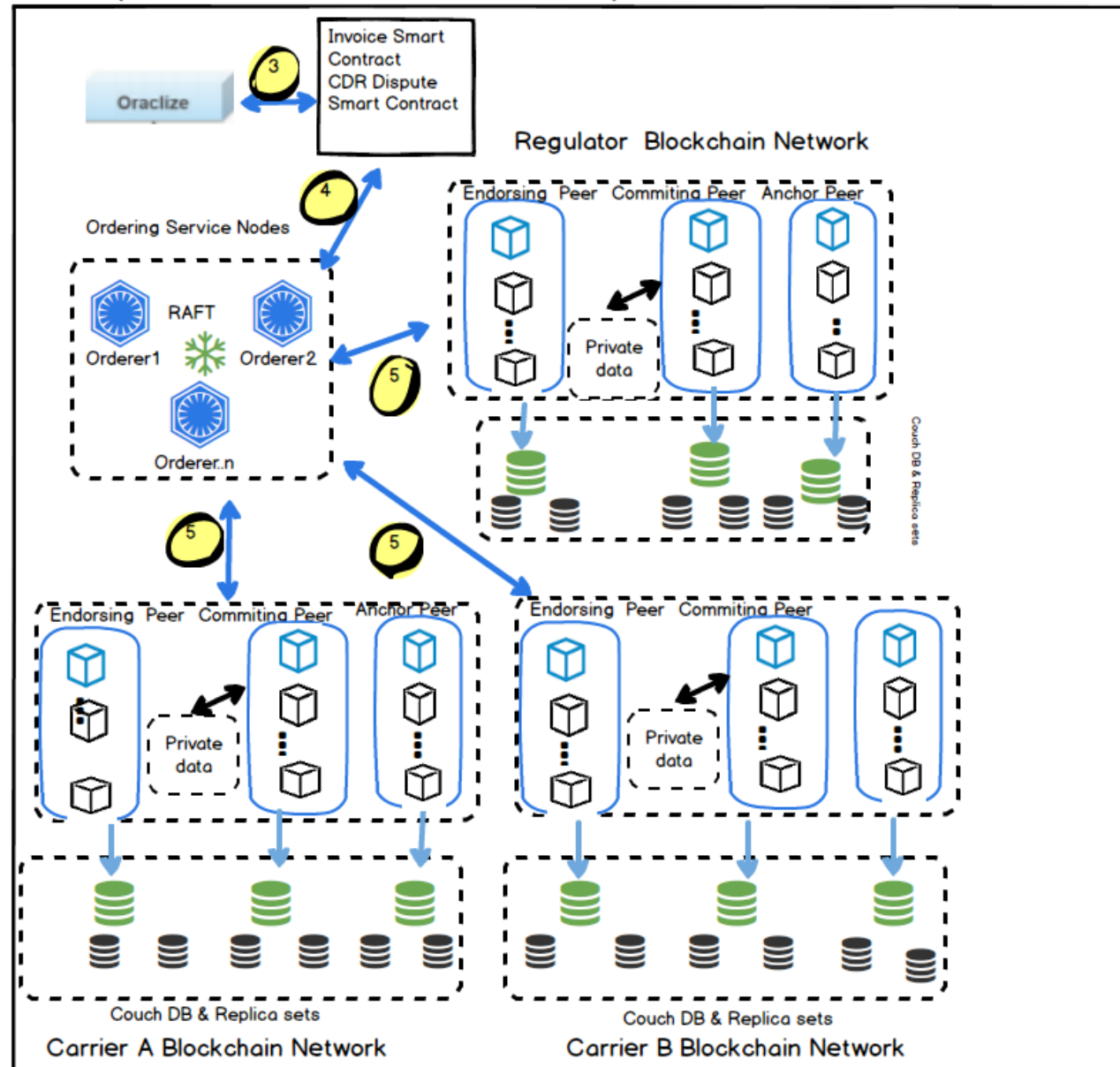
1. DAPP / Front-End Invokes Web API to fetch Invoice and CDR Dispute

2. Web API Communicates to Smart contract(Invoice / CDR Dispute) in Blockchain

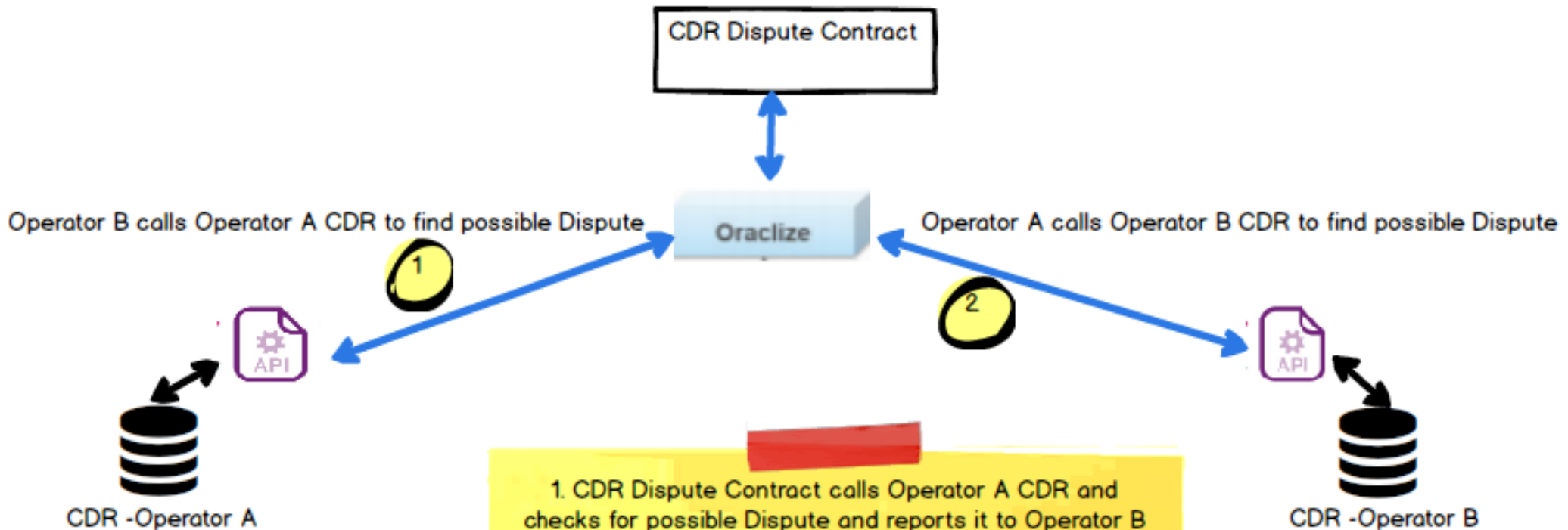
3. Invoice Smart Contract responsible for generating Invoice based on CDR
CDR Dispute Smart Contract responsible for pro-actively identifying CDR Dispute
** Oraclize / Provable is used Considering Volume of data to fit better performance /Scalability

4. Endorsed Transaction are routed by Orderer service to Peer

5. Peer Commits transactions considering **Private Data



Deep Dive of Smart Contract Functionalities



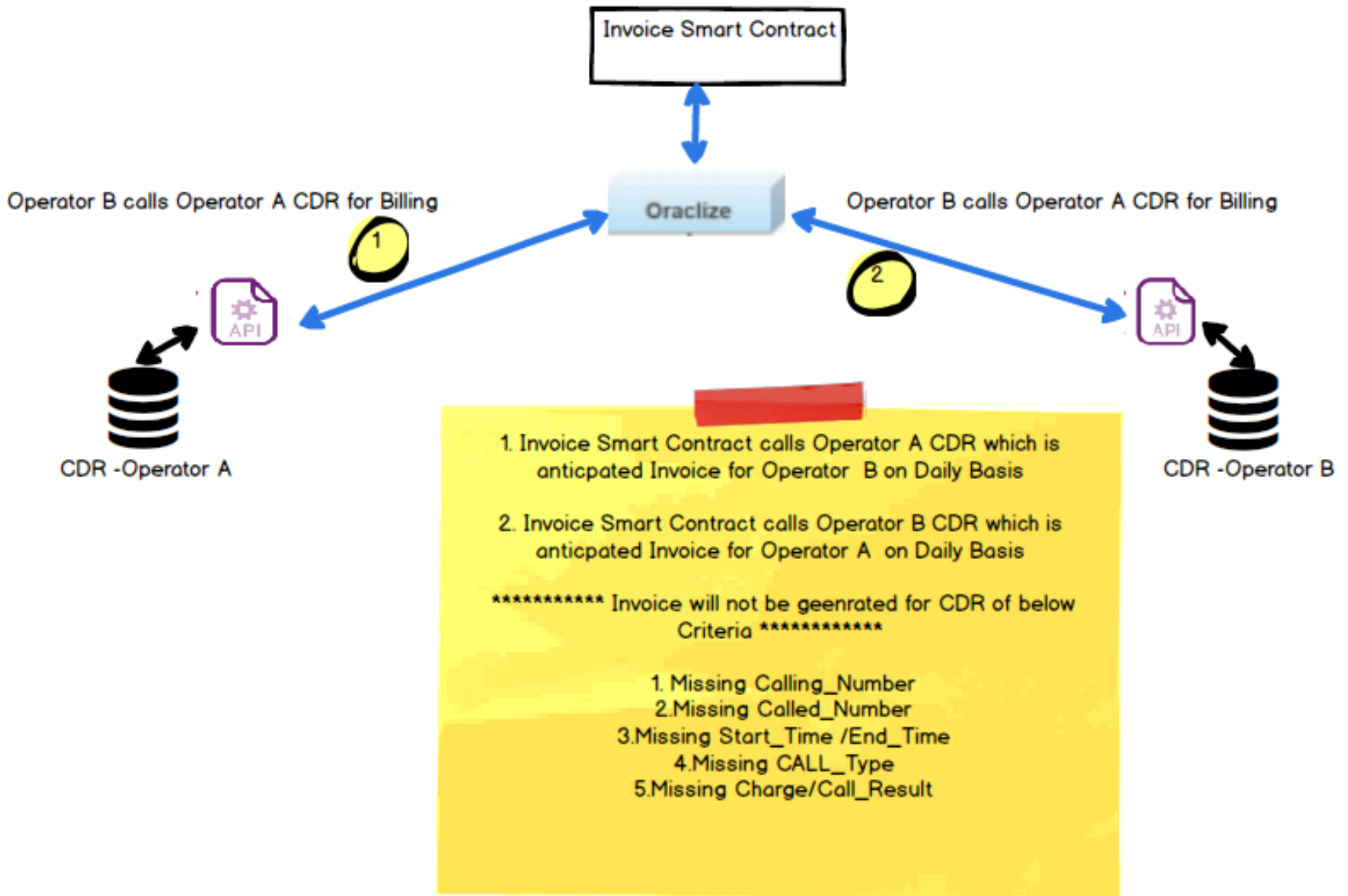
1. CDR Dispute Contract calls Operator A CDR and checks for possible Dispute and reports it to Operator B
2. CDR Dispute Contract calls Operator B CDR and checks for possible Dispute and reports it to Operator A

** Contract Parameters include API Url of Operator CDR ,
It is dynamic.

*****CDR Dispute Consideration*****

1. Missing Calling_Number
2. Missing Called_Number
3. Missing Start_Time /End_Time
4. Missing CALL_Type
5. Missing Charge/Call_Result

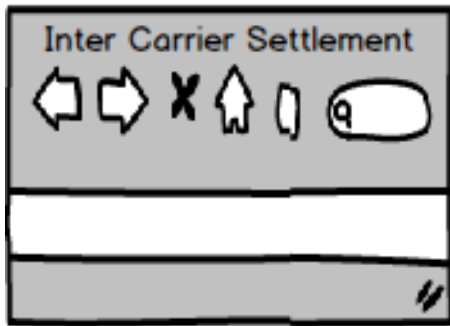
Deep Dive of Smart Contract Functionalities



POC Stack



Amazon EC2



Front End with Angular



Hyperledger runs over Amazon EC2

`{ } myjson`

Mock Data is exposed as JSON via Myjson

GitHub : <https://github.com/rangesh-/IntercarrierSettelment>