

## Blockchain (EVM L1s & L2s)



4P = Community-build Email & Chat Super App



4thTech = Web3 communication technology framework



Encryptor = communication and data encryption extension



PollinationX = Decentralized Storage Service



on-chain  
Chat message  
storage

### [Chat] Smart Contract

- (1) sendMessage: self-explanatory
- (2) deleteMessage: self-explanatory
- (3) addMessageToConversation: self-explanatory
- (4) createGroupConversation: self-explanatory
- (5) deleteGroupConversation: self-explanatory
- (6) addMembersToGroupConversation: self-explanatory
- (7) removeMembersFromGroupConversation: self-explanatory
- (8) getConversationHashes: each conversation has its own hash, this method returns an array of user-participation-conversation hashes
- (9) getConversations: self-explanatory
- (10) getConversation: self-explanatory
- (11) getConversationMessagesPaginated: self-explanatory

### [RTA] Smart Contract

- (1) lock: self-explanatory
- (2) unlock: self-explanatory
- (3) TBD

on-chain messaging;  
(1) 1 message = 1 L1/L2 TX  
(2) AES message encryption  
(3) 100% self-custodial  
(4) decentralization coefficient = L1/L2



encrypted messages



encrypted messages



## OCC SDK v.1 (TypeScript)

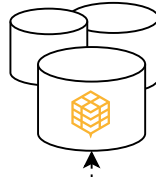


**AES Encryption**

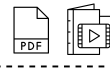
(secret key produced by ECDH)



data & media files



Decentralize Storage Node



data & media files



**AES Encryption**

(secret key produced by ECDH)

## 4P Framework

### 4P dApp Client

- 4P Basic;
- (1) Message DM
  - (2) Self-custodial Encryption
  - (3) Self-custodial decentralized storage
  - (4) Multi-chain

### 4P Pro (Four Token RTA);

- (5) TestNet availability
- (6) Message fee discount
- (7) Group chat creation
- (8) Chat attachment availability

RTA (i.e. right-to-access)



Wallet Client A



Wallet Client B

