

FINL CHAIN OVERVIEW

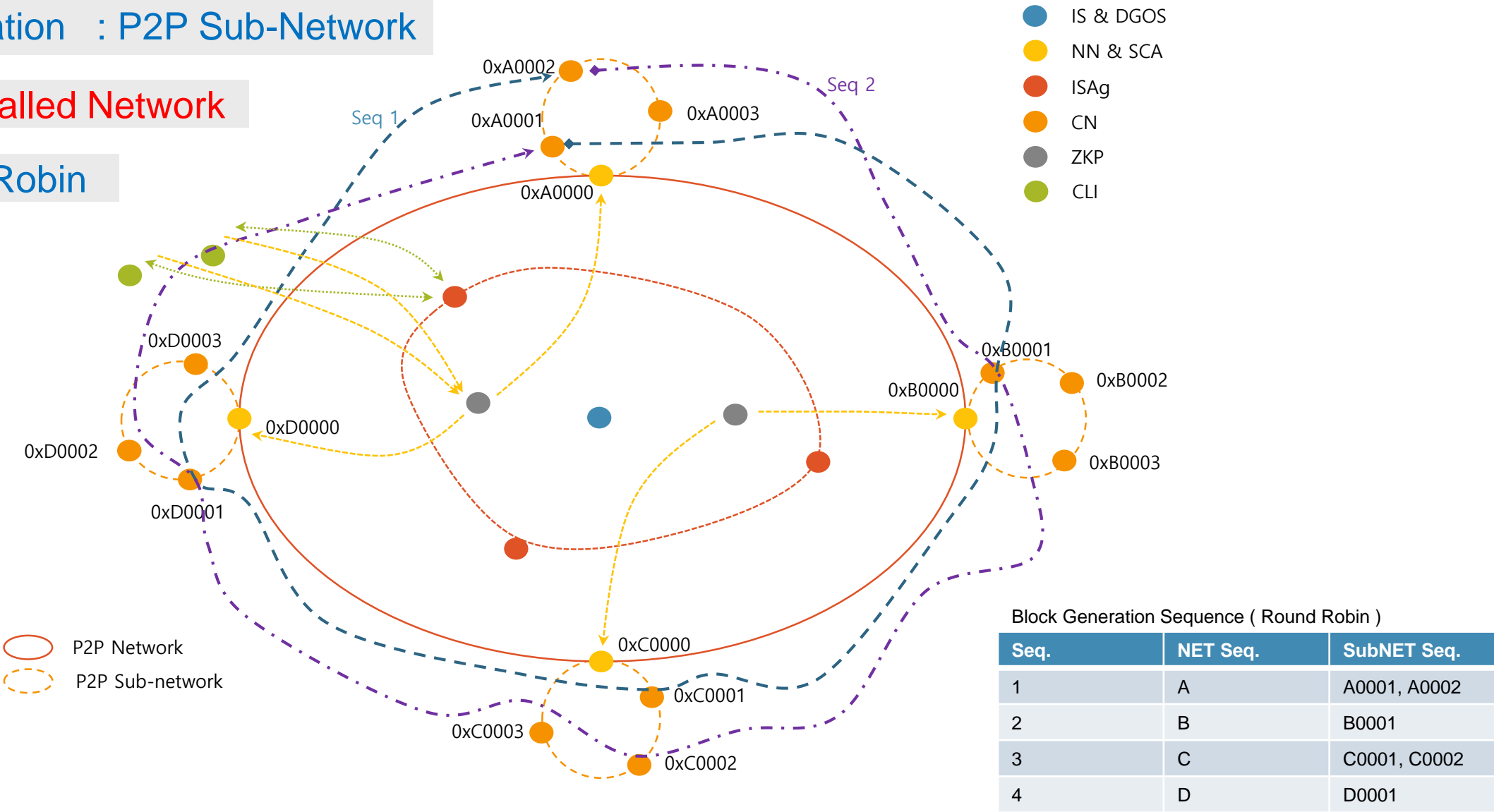
HACKERS R&D DEVELOPER

Overall Architecture – Network Architecture

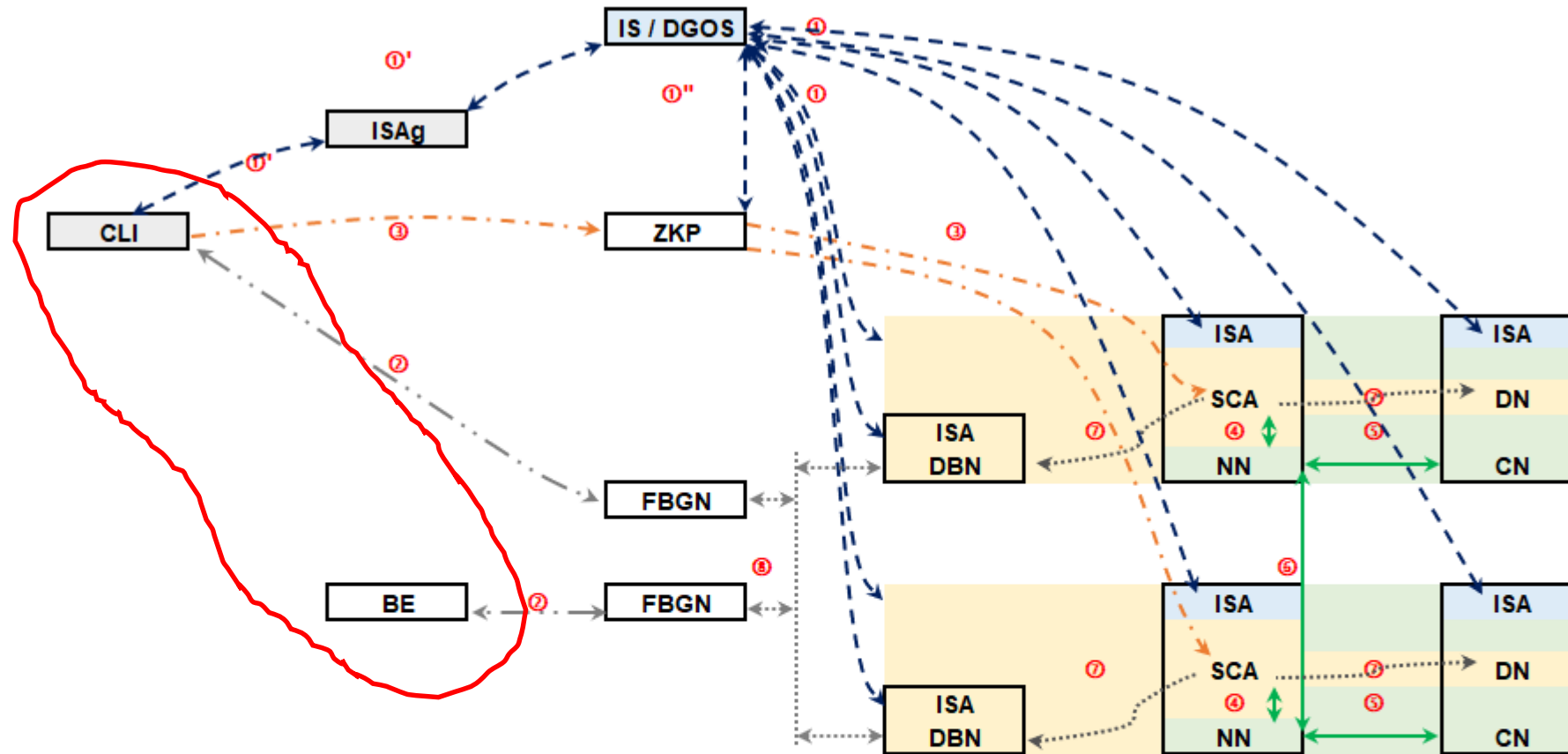
- * Globalization : P2P Network
- * Localization : P2P Sub-Network

* Pre Installed Network

* Round Robin



Overall Architecture – Packet Flow



①	IS <-> ISA	Control Packets	Global IP
①'	IS <-> ISAg <-> CLI		Global IP
①''	IS <-> ZKP	Control Packets (Topic List)	Global IP
②	CLI / BE <-> FBGN	Look up DB	Global IP
③	CLI -> ZKP -> SCA	Data Packets (Contract)	Global IP
④	SCA <-> NN	Data Packets (Transaction)	Local Redis
⑤	NN <-> CN	Sub Network (MN)	Local IP 1
⑥	NN <-> NN	Main Network (Block)	Global IP
⑦	SCA -> DN / DBN	Database	Local IP 2
⑧	DBNs <-> FBGNs	Database Gateway	Global IP

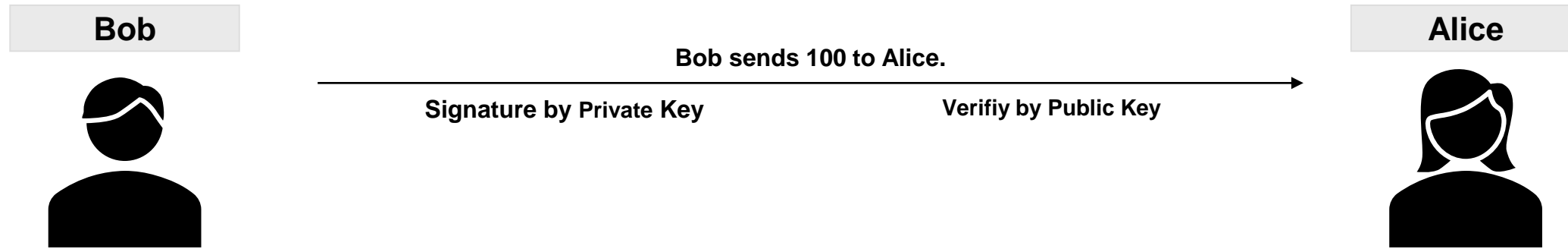
	Field Name	Comment				
Contract	revision (4)	From 0 to increased by ONE				
	prev_db_key (8)	Previous Revision DB Key ID				
	create_tm (8)	UTC milliseconds				
	fintech (1)	Financial Transaction				
	from (33)	Public Key				
	balance (8)					
	note_privacy (1)	0 : Private / 1 : Public				
	note (Blob)	To (33) Fee (4) Kind (4) Content (Blob) Date (4) (UTC sec)				
		To (33) Fee (4) Kind (4) Content (Blob) Date (4) (UTC sec)				
		To (33) Fee (4) Kind (4) Content (Blob) Date (4) (UTC sec)				
		To (33) Fee (4) Kind (4) Content (Blob) Date (4) (UTC sec)				
	signature (64)	From Revision to Note				

Kind

Security Coin
Utility Coin
Registration

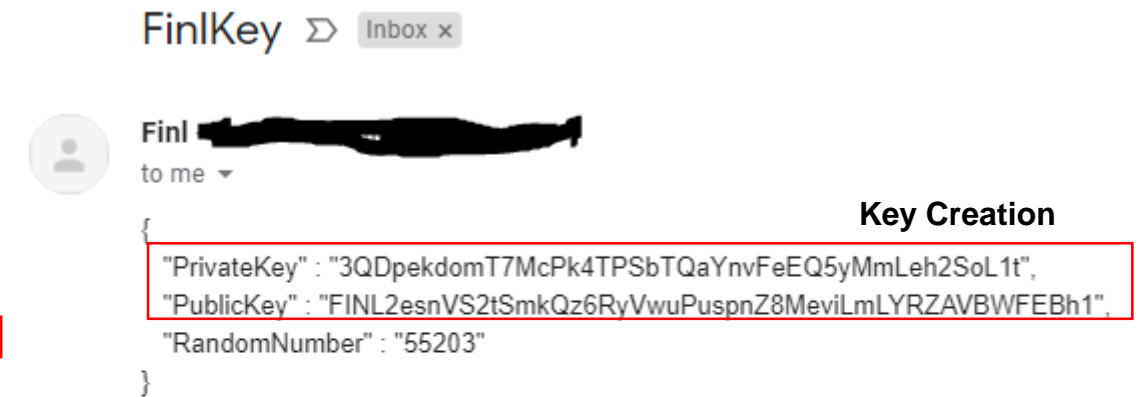
Overall Architecture – Wallet (Key Creation & Restoration)

- Key (Private Key & Public Key)



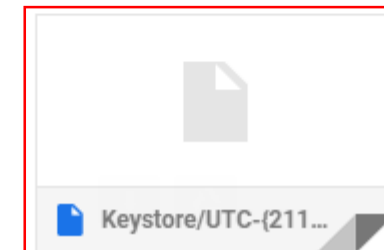
- Key Creation (Generation) & Restoration

- Password
- Sentences (First Sentence & Second Sentence)
- Key Algorithm (ED25519 / SECP256r1 / SECP256k1)
- *Random Number (2 Bytes)* [NOTE : generate automatically]



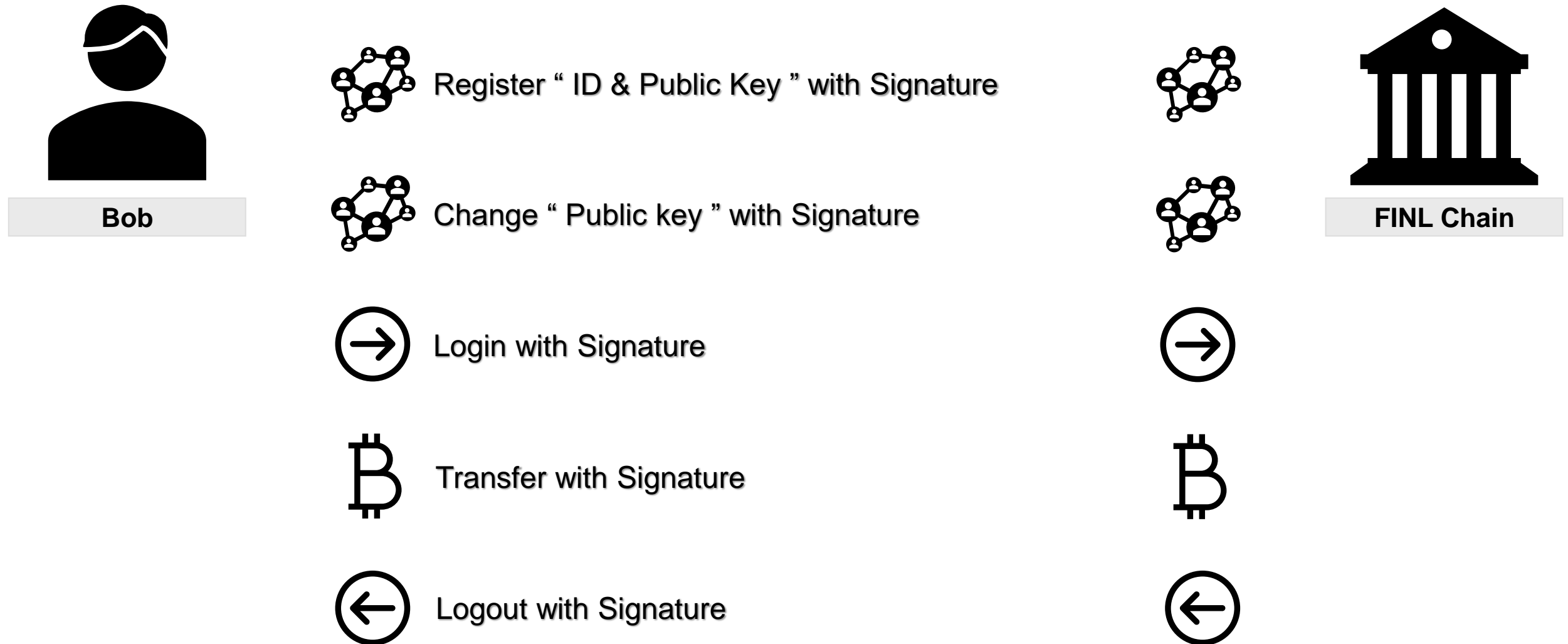
- Key Encryption

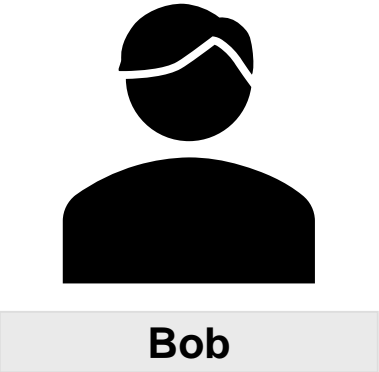
- Password
- Color (Red / Blue / Yellow)
- Shape (Circle / Square / Triangle)



The Encrypted Key File

Overall Architecture – Wallet (Key Registration)





Login with Signature



Check Account Information from FBGN



Transfer with Signature



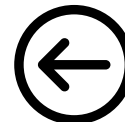
Check Account Information from FBGN



Logout with Signature



FINL Chain



Thank You
