

Topics



Digital Asset Markets



Types of Digital Assets: 1,300+



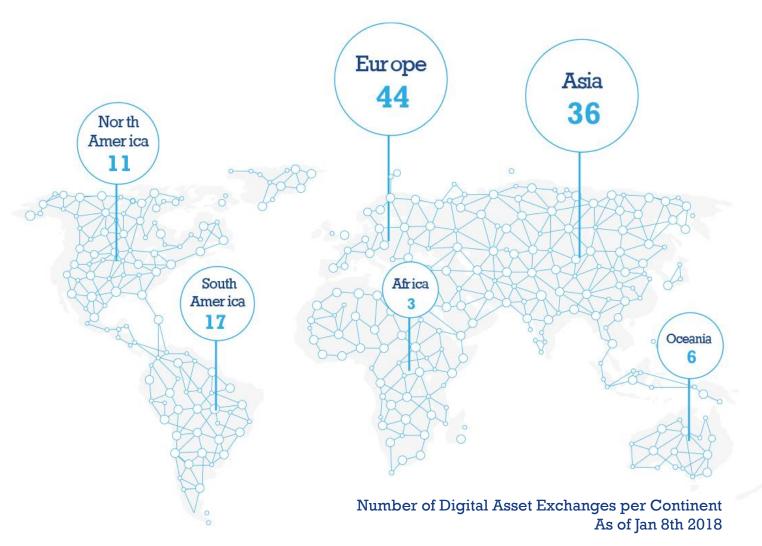
Market Capitalization of Digital Assets: \$700bn+



Total 24h Trading Volume: \$44bn+



Number of Digital Asset Exchanges: 100+



Industry Pain Points

Exchanges:

- are <u>localized</u> and <u>isolated</u>
- have <u>limited</u> trading pairs
- struggle to maintain adequate <u>liquidity</u>

Users:

- encounter real-time price discrepancy
- face inefficient & costly cross-exchange transactions
- Need to <u>verify multiple accounts</u> on different exchanges (access to liquidity and new trading pairs)



Vision

"The first decentralized network, which enables instant and trustless trades between digital asset exchanges."







Who benefits?

Exchanges:

- larger user base
- increased volume & earnings
- increased liquidity
- robust decentralized trading infrastructure

Users:

- tighter spread
- best price
- all trading pairs
- No need for multiple verified accounts



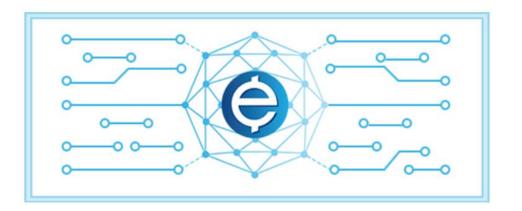
What do we do?

- ◆ We build the software for connecting exchanges: **XU Node**
- lack Open-source (YES!) \rightarrow Build community
- \bullet Bitcoin \rightarrow the new open-source is self-sustaining
- XUC token: Fees & Incentive system
- Similar solutions:
 - Missing incentives
 - Got technology stack wrong (slow or centralized)
 - Benefits one-sided (e.g. traders, but not exchanges)



How do we realize this?

XUC



How do we realize this?

XUC = Incentive System



XUC

XUC rewards:

- Exchanges: for joining Exchange Union allocate XUC to their users
- Users: for trading certain volume via Exchange Union
- Developers: for merged pull-requests, review, testing
- Anyone: for provide services in the union
 - Propagate Orderbooks
 - Validate Orderbooks
 - Other payment channels services like a watchtower

XUC

Token Data:

- Total supply: 3 billion
- Current circulation: 65 Million
- Larger parts locked long-term locked or burned
- Max. release amount per month: 5 Million (controlled by smart contract)



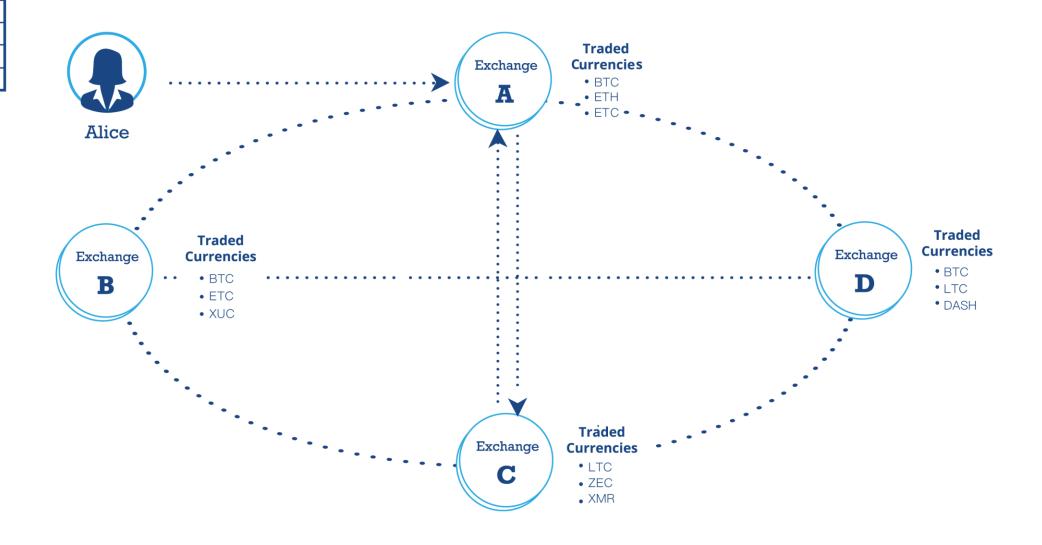




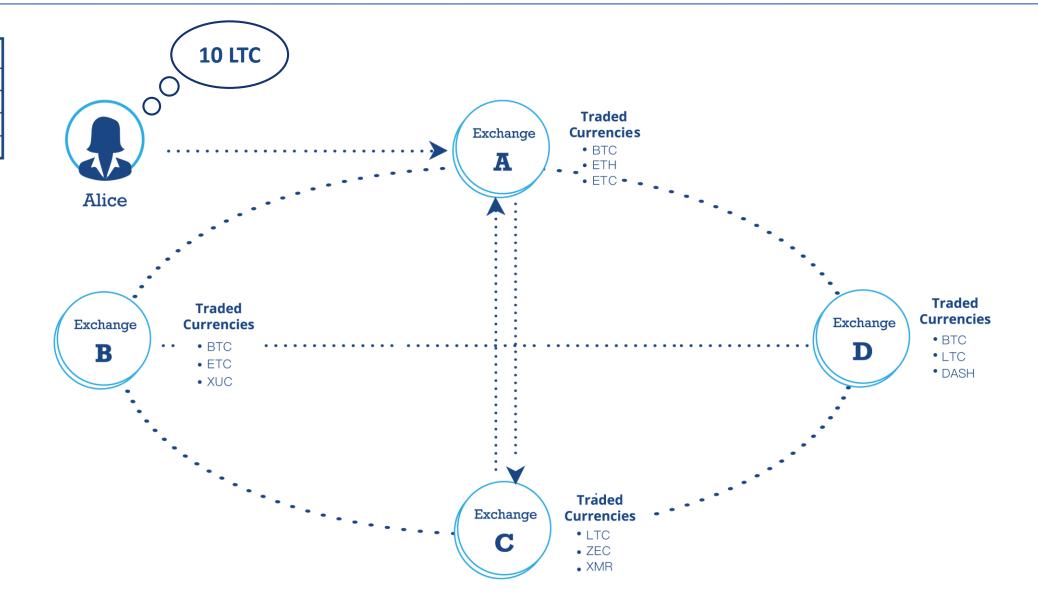




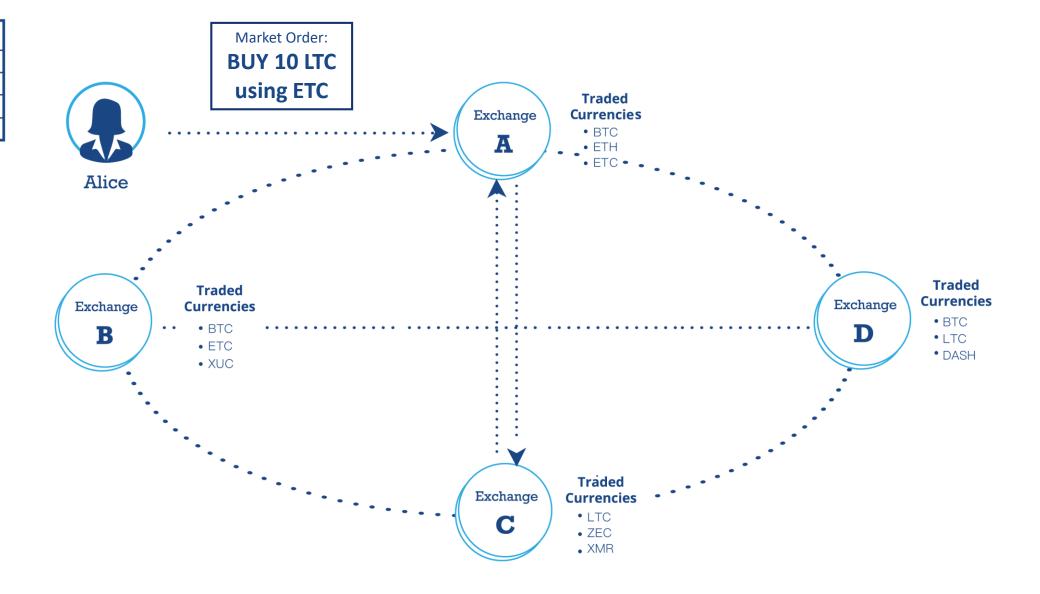
Portfolio		
	Before	After
втс	2	
LTC	0	
ETC	100	



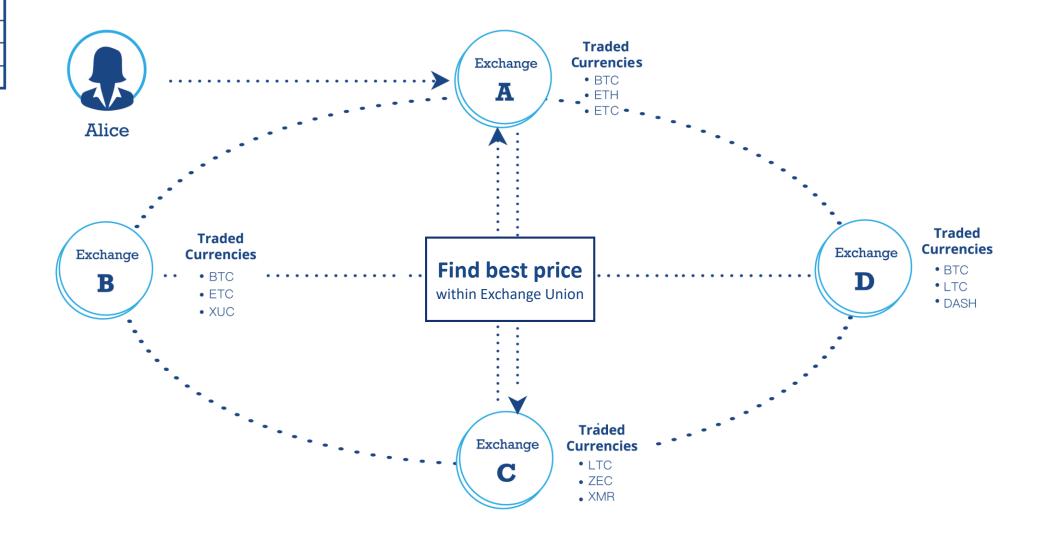
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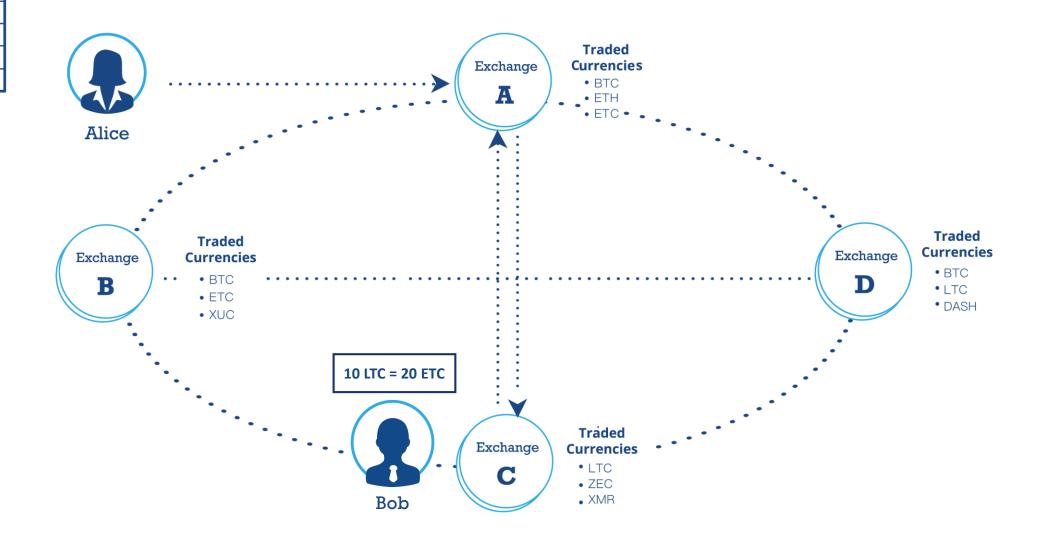
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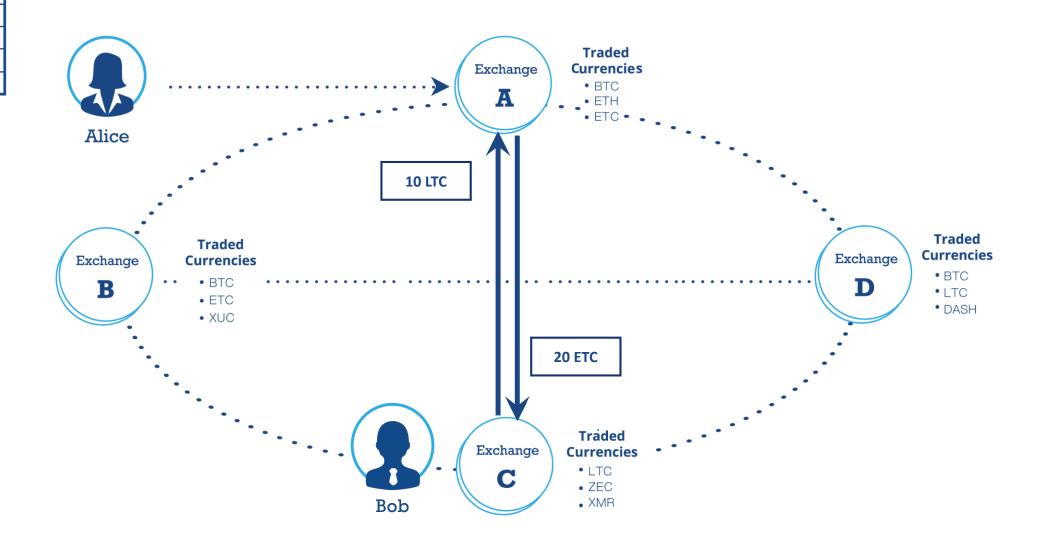
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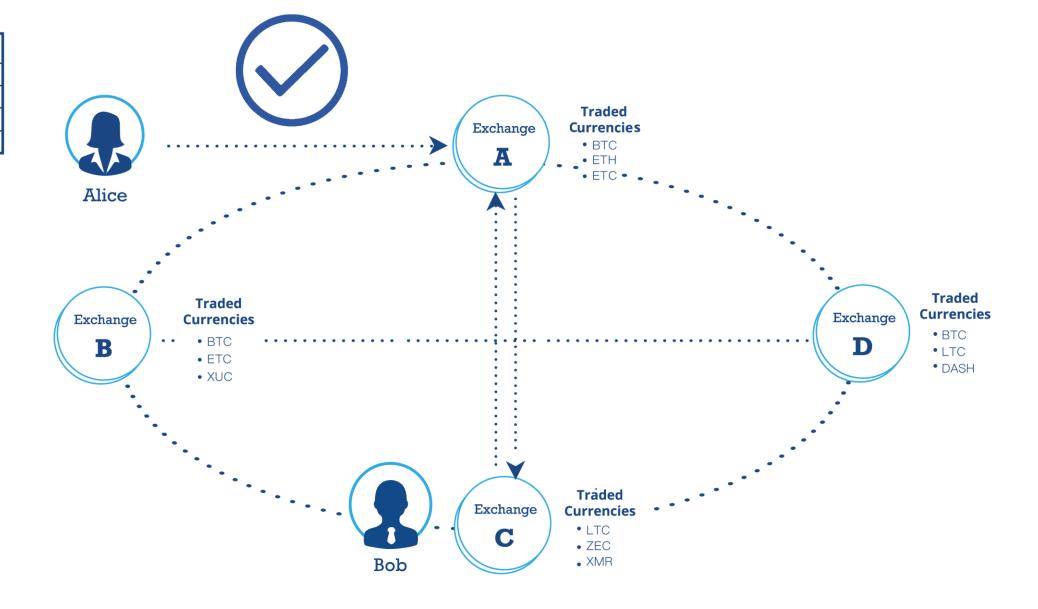
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втс	2	
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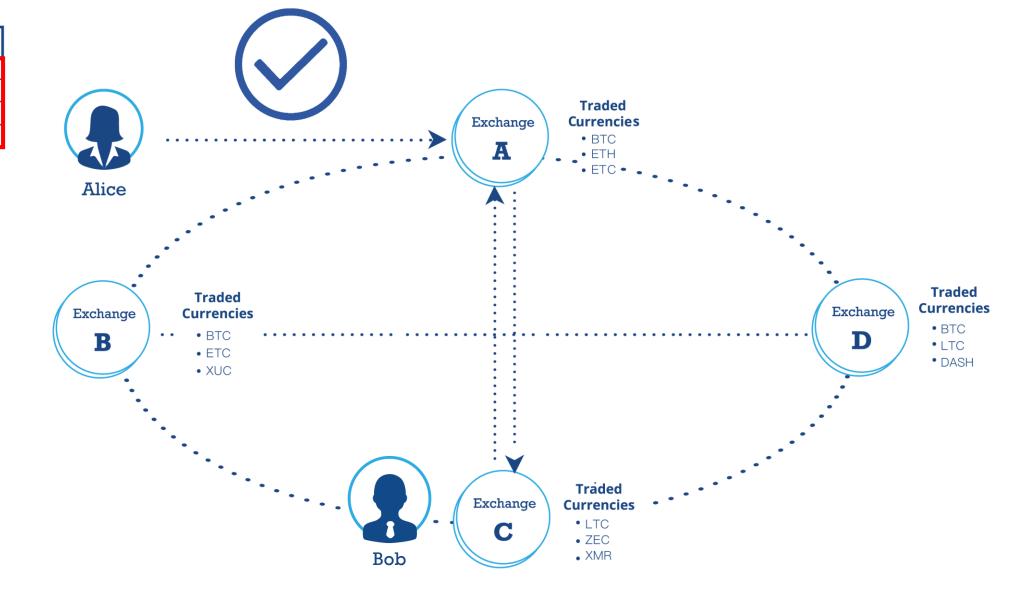
Portfolio		
	Before	After
втс	2	
LTC	0	
ETC	100	



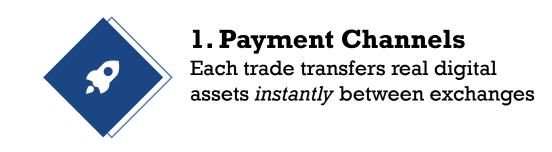
Portfolio		
	Before	After
втс	2	
LTC	0	
ETC	100	



Portfolio		
	Before	After
втс	2	2
LTC	0	10
ETC	100	80



3 Key Technologies



3 Key Technologies



1. Payment Channels

Each trade transfers real digital assets *instantly* between exchanges





2. Atomic Swaps

Trustless trades directly between two exchanges

3 Key Technologies



1. Payment Channels

Each trade transfers real digital assets *instantly* between exchanges



2. Atomic Swaps

Trustless trades directly between two exchanges



3. Decentralized Orderbooks

Solving the pain points of digital asset exchanges – *connect buyer & seller*

Status Quo







Status Quo

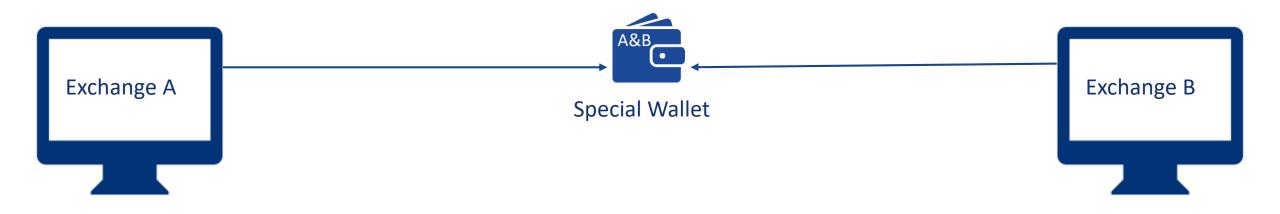


Source: https://blog.bitmex.com/the-lightning-network/

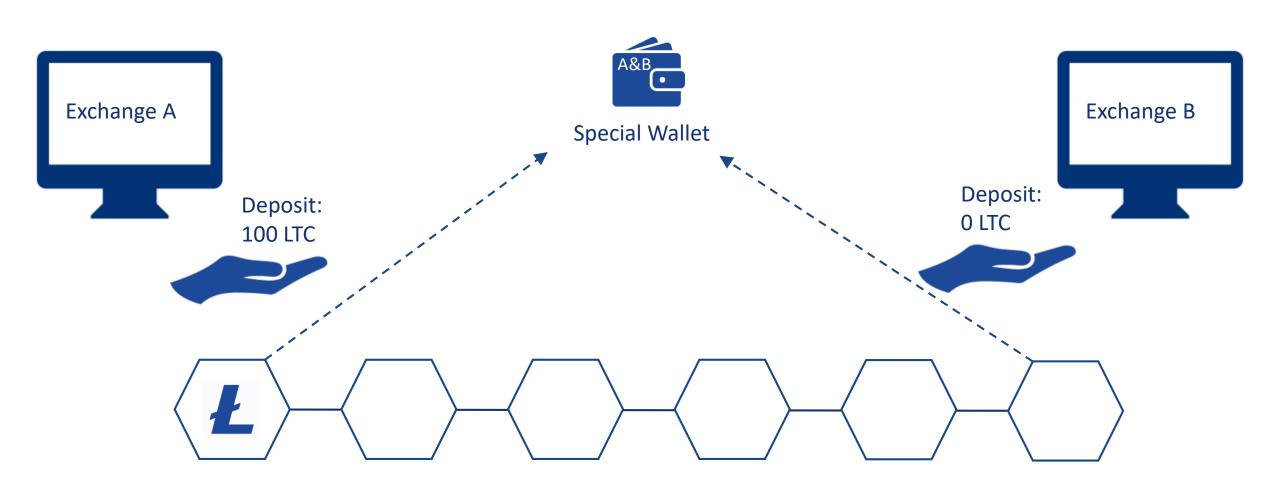
Yes, we are talking about Lightning & Raiden!

Old idea, obviously Satoshi already came up with the basics:

One use of nLockTime is high frequency trades between a set of parties. They can keep updating a tx by unanimous agreement. The party giving money would be the first to sign the next version. If one party stops agreeing to changes, then the last state will be recorded at nLockTime.

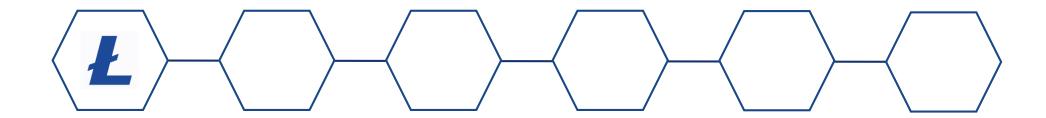








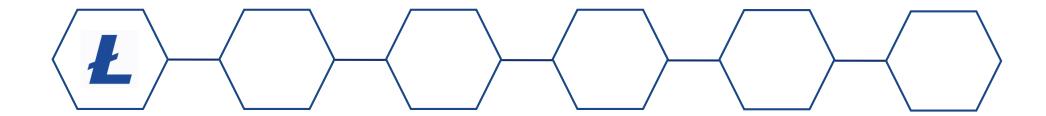


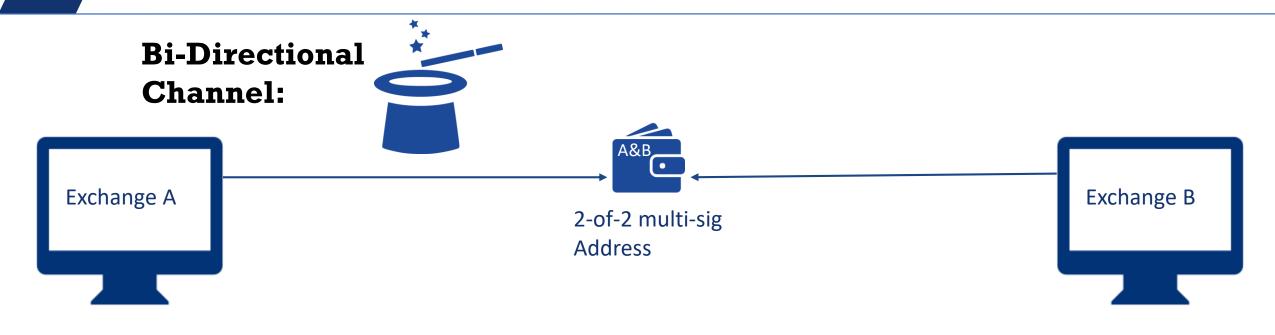


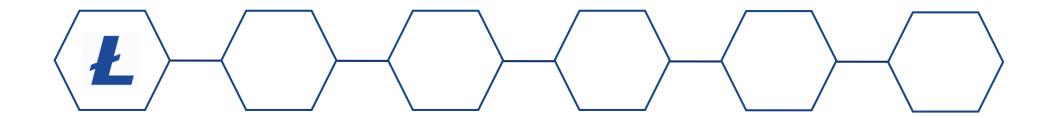




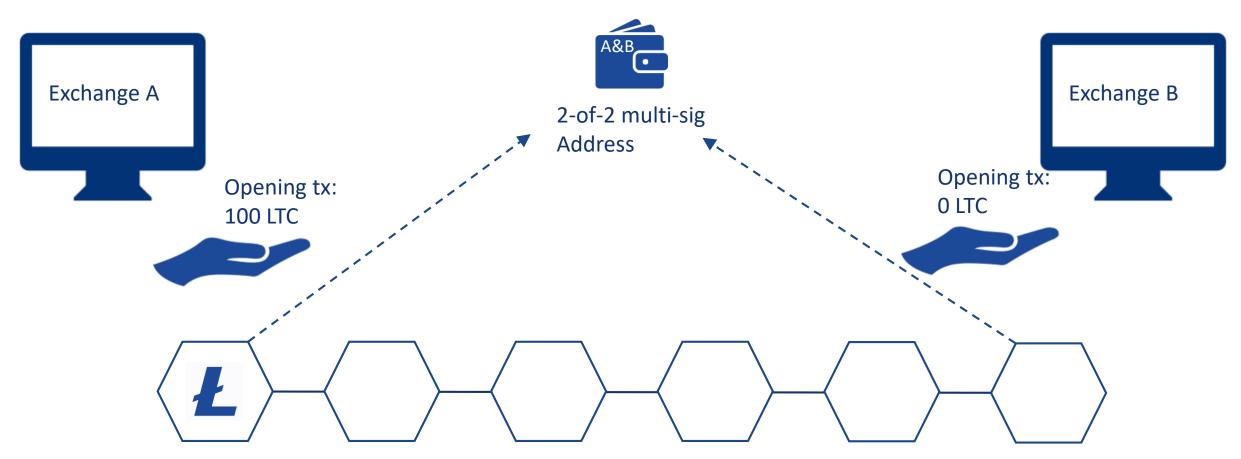








Bi-Directional Channel:



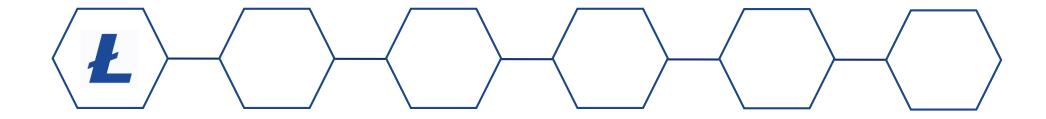
Bi-Directional Channel:

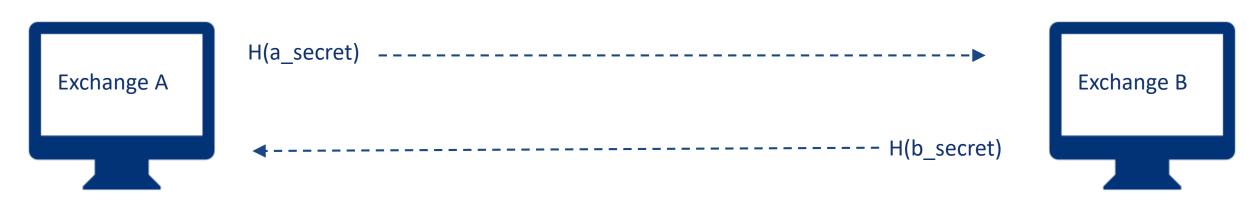


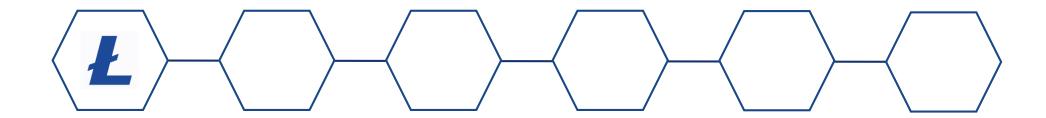
H(a_secret)

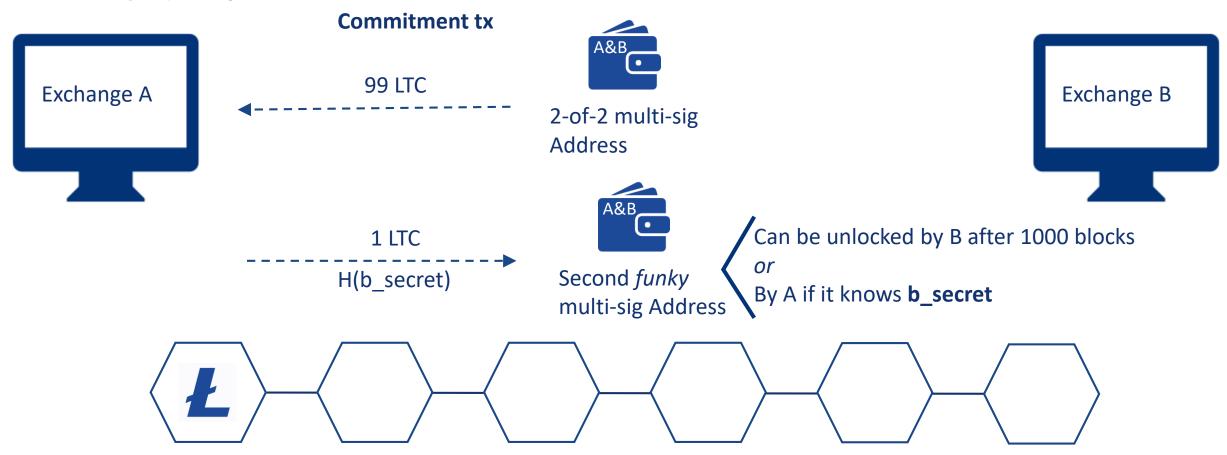
Exchange B

H(b_secret)















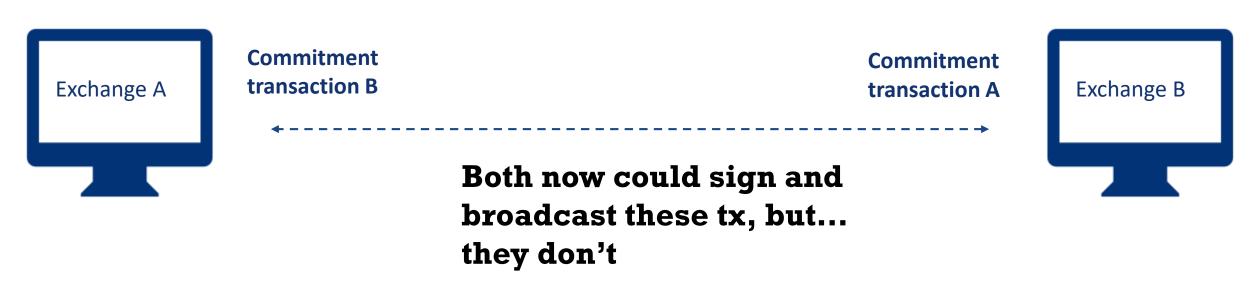




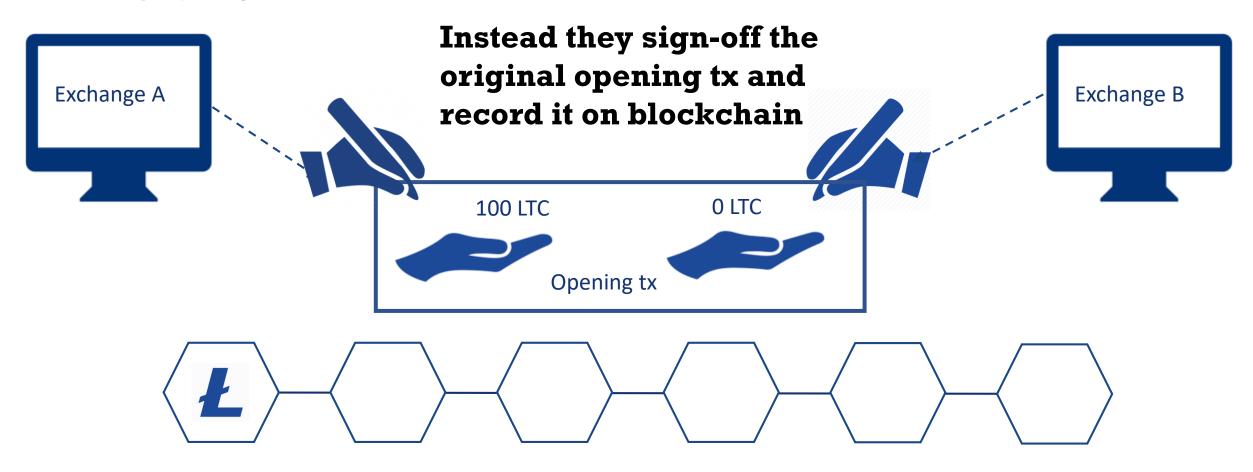








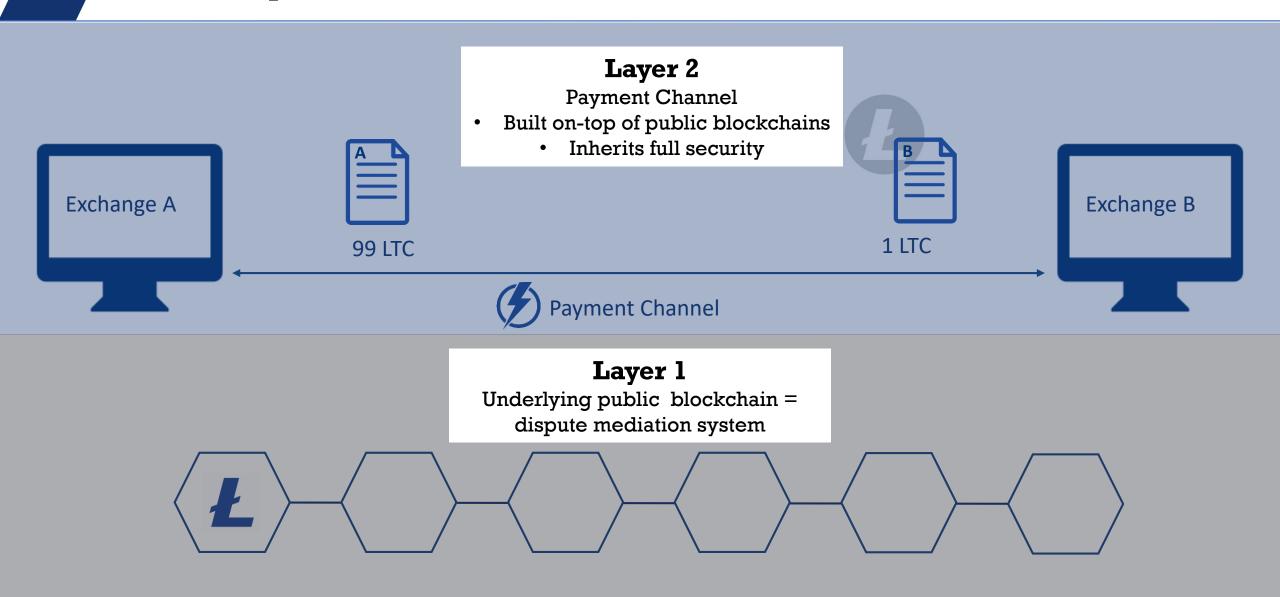




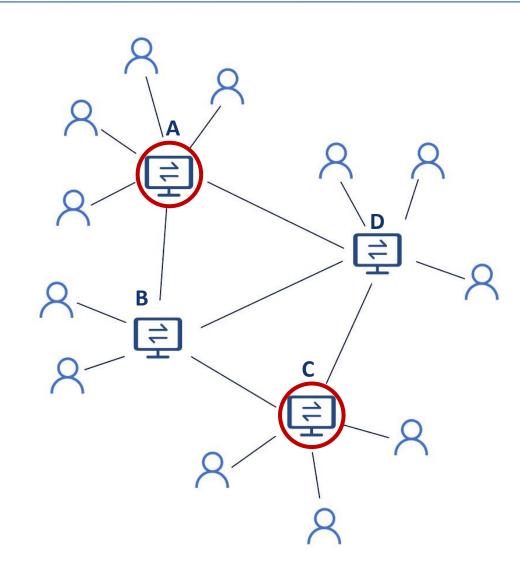


Bi-Directional Payment Channel is now officially open

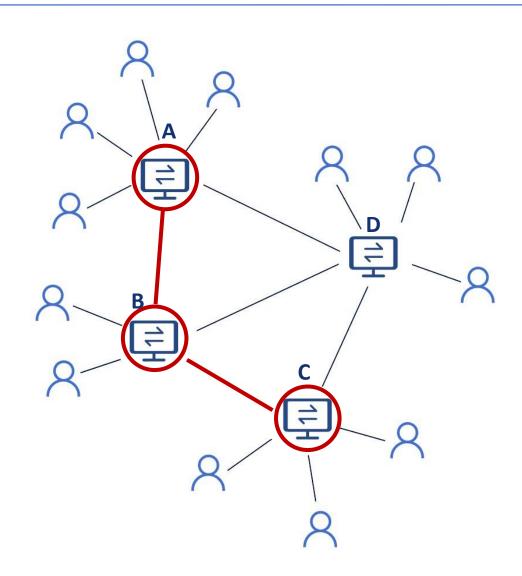


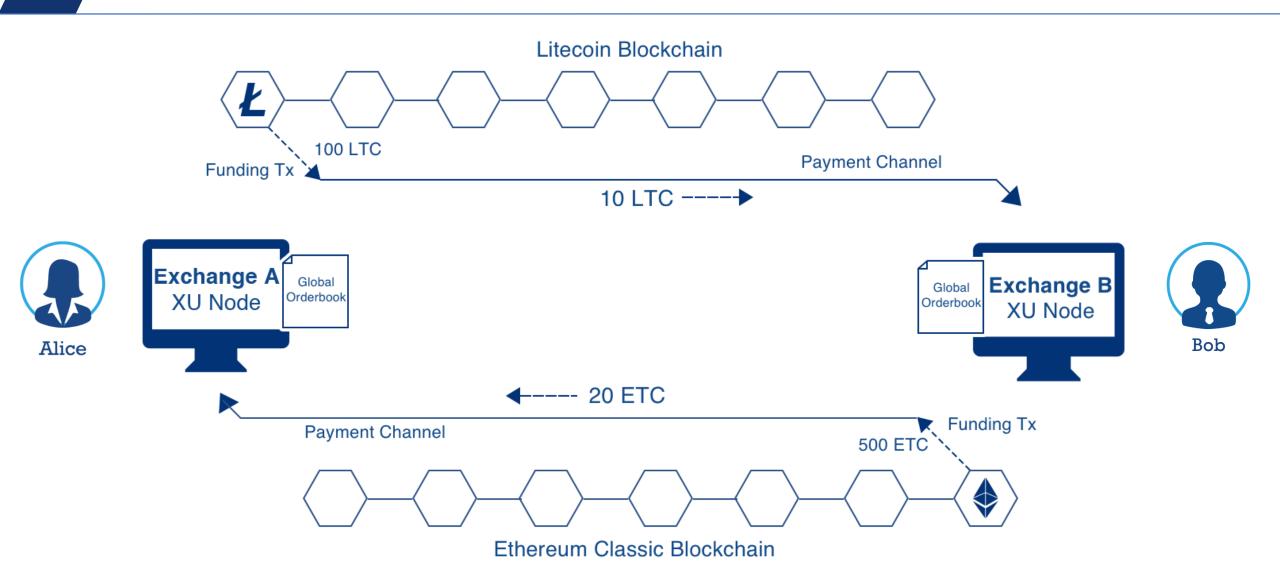


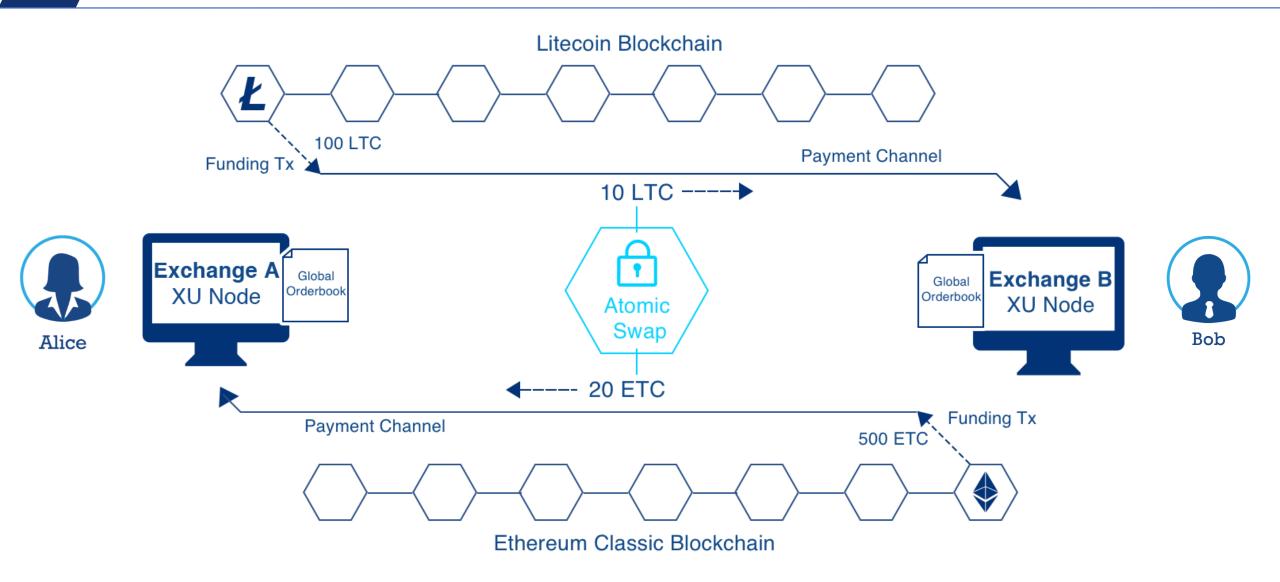
Routing:



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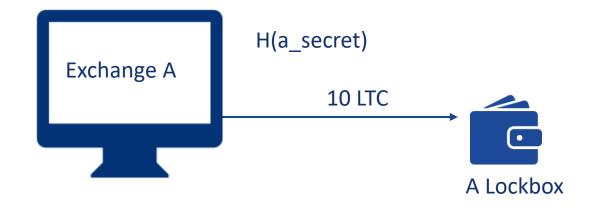






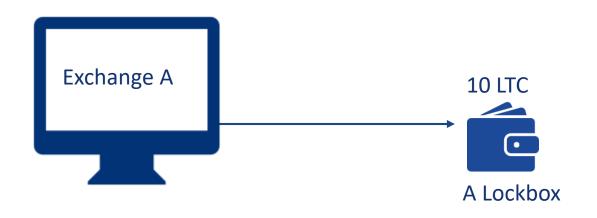
- Trustless exchange of two different assets
 - No middleman/escrow service needed.
- How: guarantee atomicity
 - ◆ Either both sides of the trade happen or none
 - ◆ Technology: Hashed TimeLock Contracts (HTLCs)





Exchange B

Lockbox only opens with 'a_secret' + B's signature



H(a_secret)

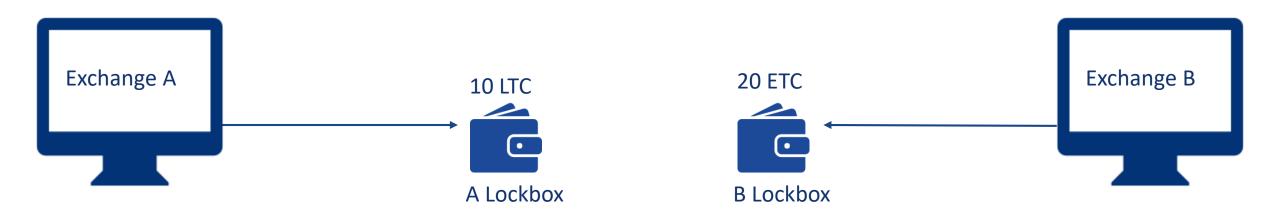
20 ETC

Exchange B

B Lockbox

Lockbox only opens with 'a_secret' + B's signature

Lockbox only opens with 'a_secret' + A's signature

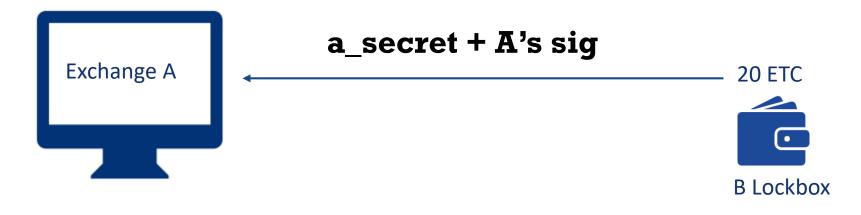


Lockbox only opens with 'a_secret' + B's signature

Lockbox only opens with 'a_secret' + A's signature

Both lockboxes need the **same "a_secret"** to be opened!

If now A wants to open B's lockbox it has to reveal it's a_secret on the payment channel

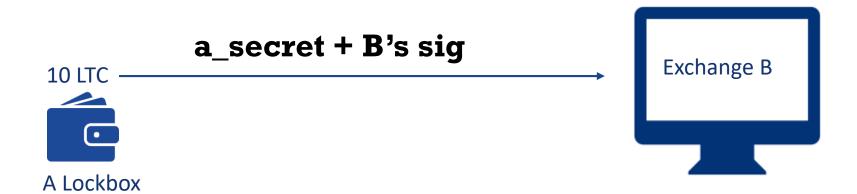












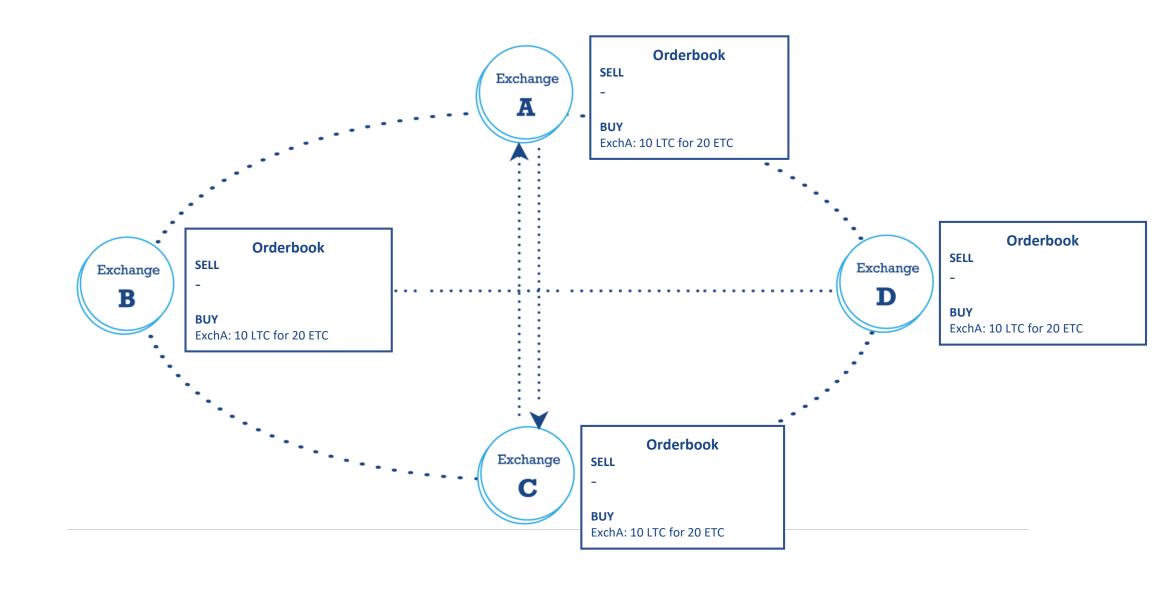


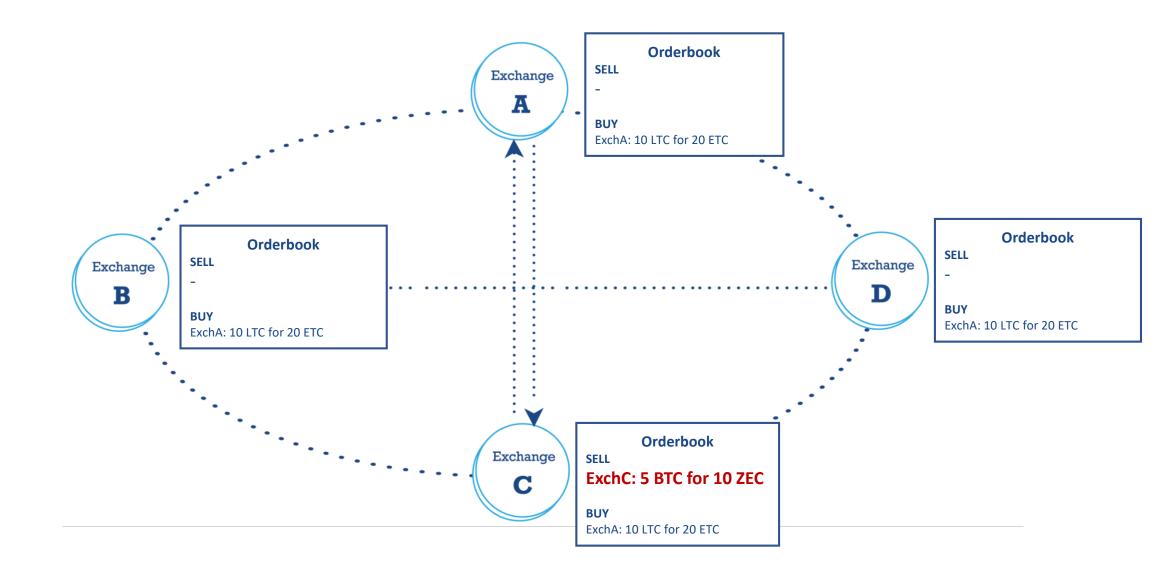


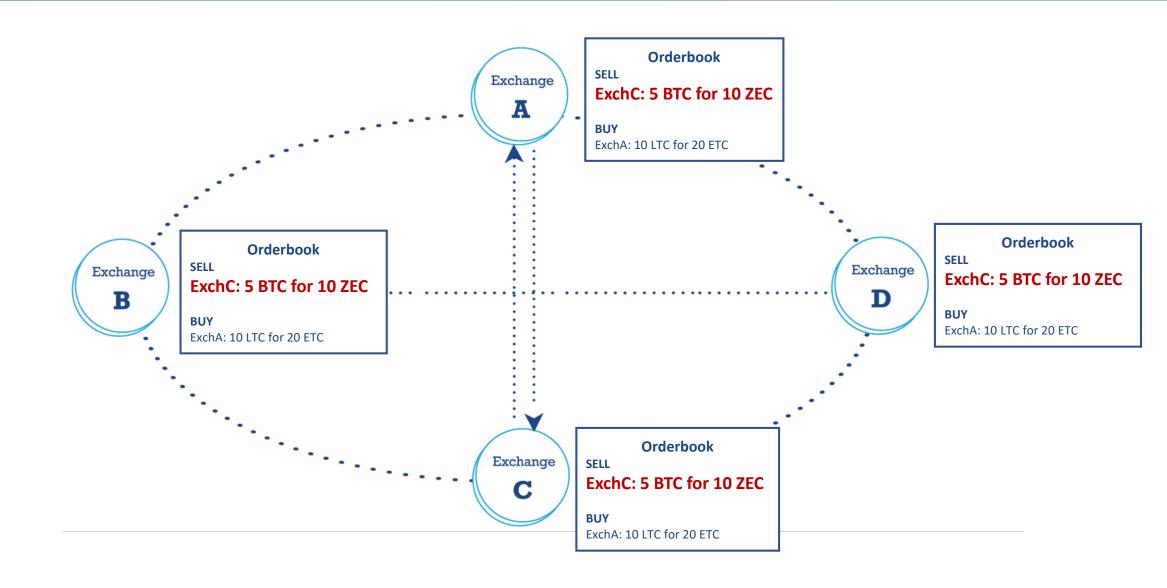




If something goes wrong, 10 LTC go back to A and 20 ETC back to B after certain time interval







- ★ XU node software will propagate order updates to peers
 → XUC reward for relaying orders
- Orders may be signed by known key to prove authenticity
- Takers ping maker node to ensure validity and create invoice & swap route

Summary

Decentralized & Open Source

Technology:

- Payment Channels
- Atomic Swaps
- Decentralized Orderbooks

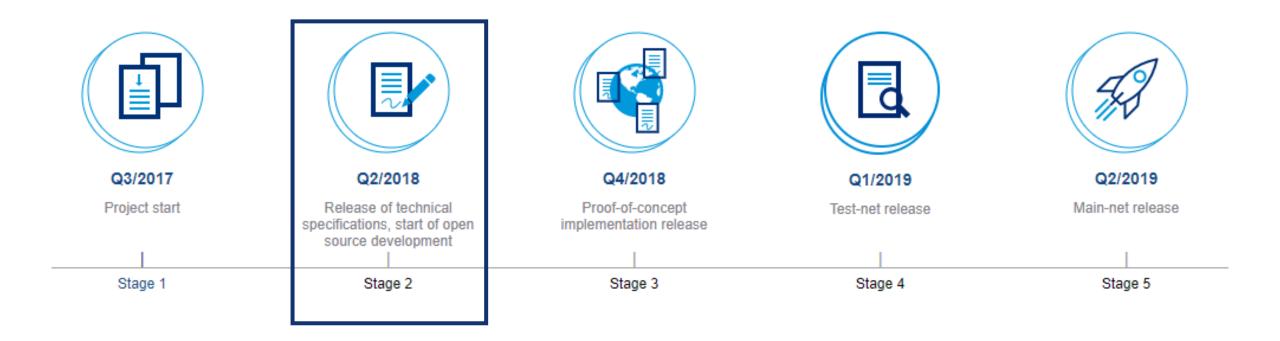
Benefits:

- Exchanges: increased revenue & liquidity
- Users: trade from one account & best price

XUC: fee and incentive system



Where are we?



Outlook

Exchange Union is infrastructure

Exchanges as first 'users', endgame: individuals

Base for entire new products:

- Wallets
- Merchant PoS

How to get involved?



We need YOU!

Open Source
 Lightning/Raiden
 Developer

Blockchain developerCryptographer



Participate!



github.com/ExchangeUnion



t.me/exchangeunioncoin



twitter.com/exchange_union

