

The Road to Inter-Blockchain Communication (IBC)

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Interchain Vision

Interoperability is crucial to
blockchain economy

Cross-chain challenges

Transport

- Get data to the right place

Authentication

- Is it the right data?

Ordering

- Is it in the right order?

Dynamic topologies

- What if the set of chains/shards/
validators is changing?
- DoS-resistance / Can anyone DoS it?

IBC

Inter
Blockchain
Communication
Protocol

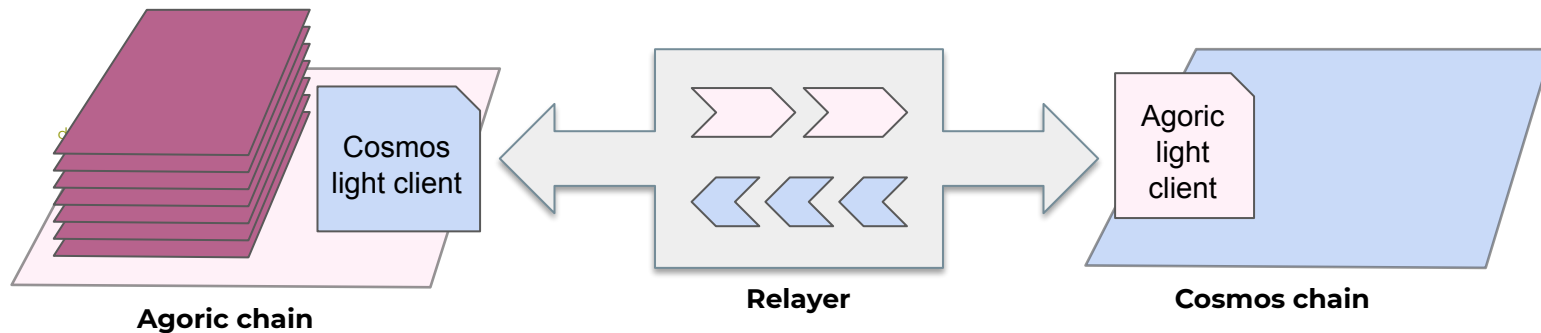
TCP for blockchains

Designed for broad adoption

- Blockchain-neutral
- Open-sourced
- Permissionless
- Extensible

Abstracts best-practices for chain interop

Released with Cosmos Stargate

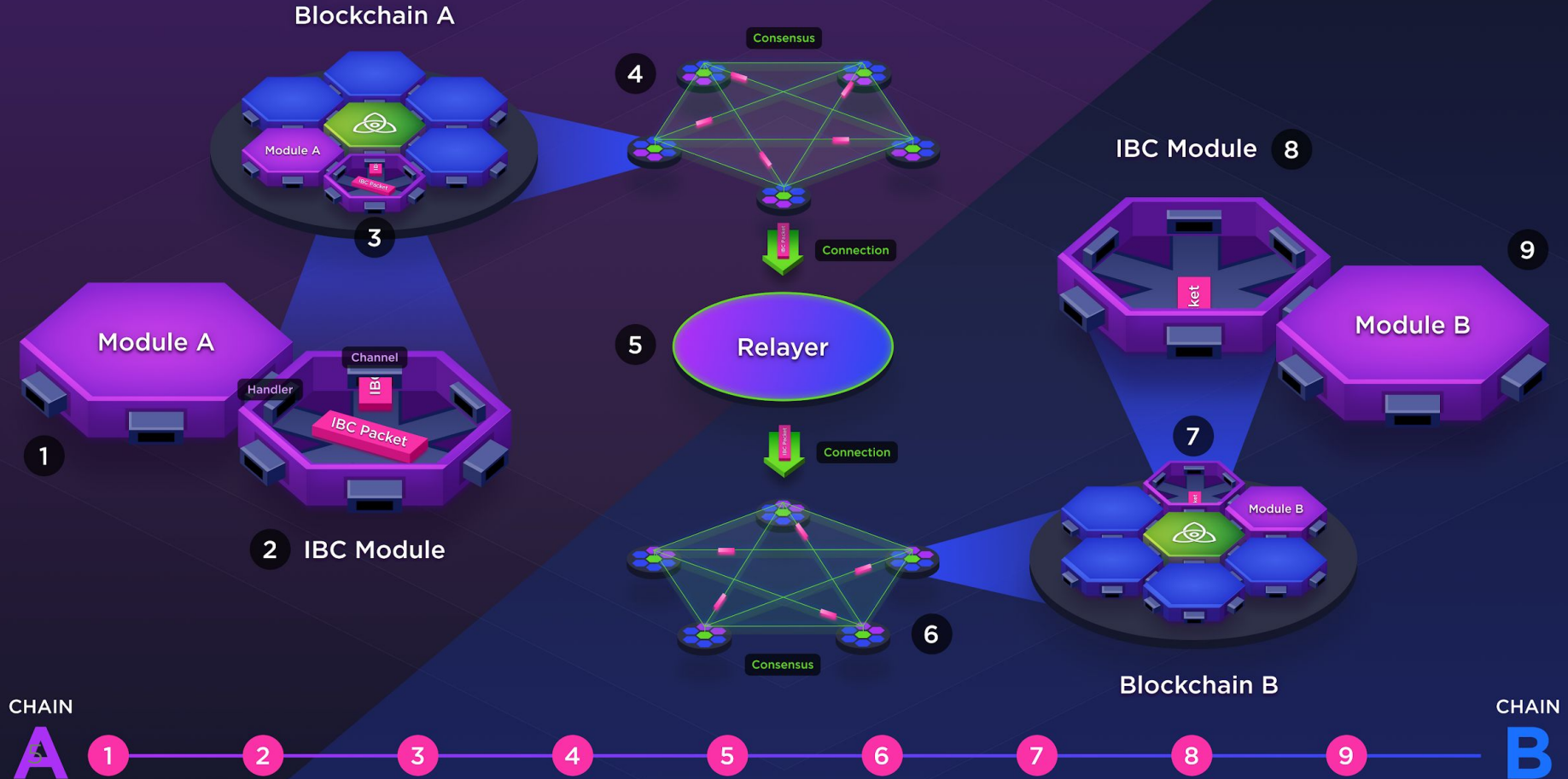


TAO Layer

Transport
Authentication
Ordering

- Application data and asset transport
- Assurance of integrity
- Relayer is untrusted

IBC



Application Layer

Permissionless innovation

Built on top of TAO

- Transfer of tokens
- Interchain account control
- Proof of Location
- Chain of Custody
- Accounts receivable Loans
- Bill of Lading

dIBC

Dynamic IBC
Protocol

VM chains for dynamic IBC

- Deploy smart contracts that support *new* protocols
- On existing chain
- No waiting for chain upgrades
- No trust required

Questions?



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