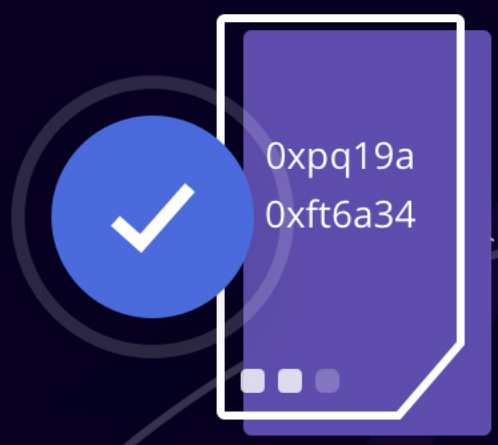
Verifiable Claims



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Introduction

The internet has transformed every aspect of our daily lives and all of global commerce. It's brought us so far but there are still a lot of limitations that inhibit progress.

What we have today is a world of misinformation, unnecessary intermediaries, and non-compatible systems that reward the abuse of our personal information. Web 2.0 centralization has restricted the machine-to-machine processing potential of the internet, creating unnecessary inefficiencies at great costs.

Blockchains promise the ability to create privacy-protected content with trustless verification, removing intermediaries and producing the necessary conditions for wide-spread, frictionless record sharing and validation anywhere in the world.

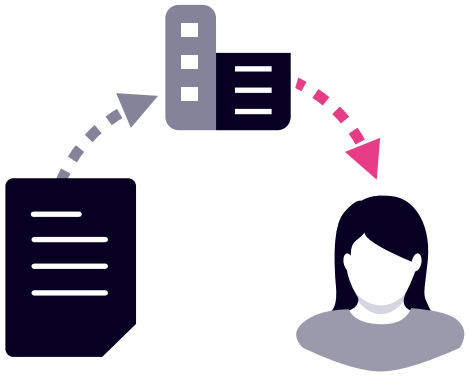
Dock is on a mission to bring these promises to reality with an autonomous network making it simple for organizations to issue blockchain-anchored records and take advantage of the transformative power. The Dock network unlocks universally verifiable data, standards-compliance for interoperability and empowers individuals with ownership and control of important personal data.

Existing Landscape

We have identified four points of failure in existing data solutions.

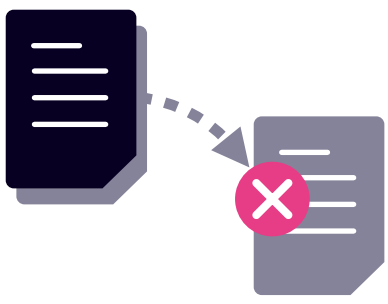
Unknown sources

It is impossible to track the origin of data in traditional systems to understand its trustworthiness.



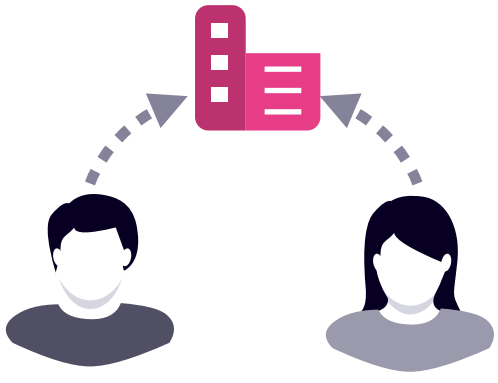
Intermediaries

Centralized databases create gatekeepers who choose what, where and when, creating friction, slowing down processes and increasing operational costs.



Lack of compatibility

The vast majority of data online does not adhere to common standards or schemas making data incompatible with other systems.



No control for users

Internet users are at the mercy of for-profit corporations with sensitive personal information that often gets exploited and abused.

Our Mission

To create an internet of trust - by producing verifiable data and returning control to owners.

Our Approach

The internet today is a world of misinformation, unnecessary intermediaries, and non-compatible systems that reward the abuse of our personal information.

Dock is changing this by:

- **Promoting collaboration and efficiency.**
- **Enabling organizations to seamlessly produce interoperable and universally verifiable data.**
- **Returning control to users and data owners.**

Dock Blockchain

In designing Dock's technology stack, priority was given to solution leaders in interoperability, modular and portable code, developer tools and support, scalability, developability and the ability to create seamless experiences for users of the system.

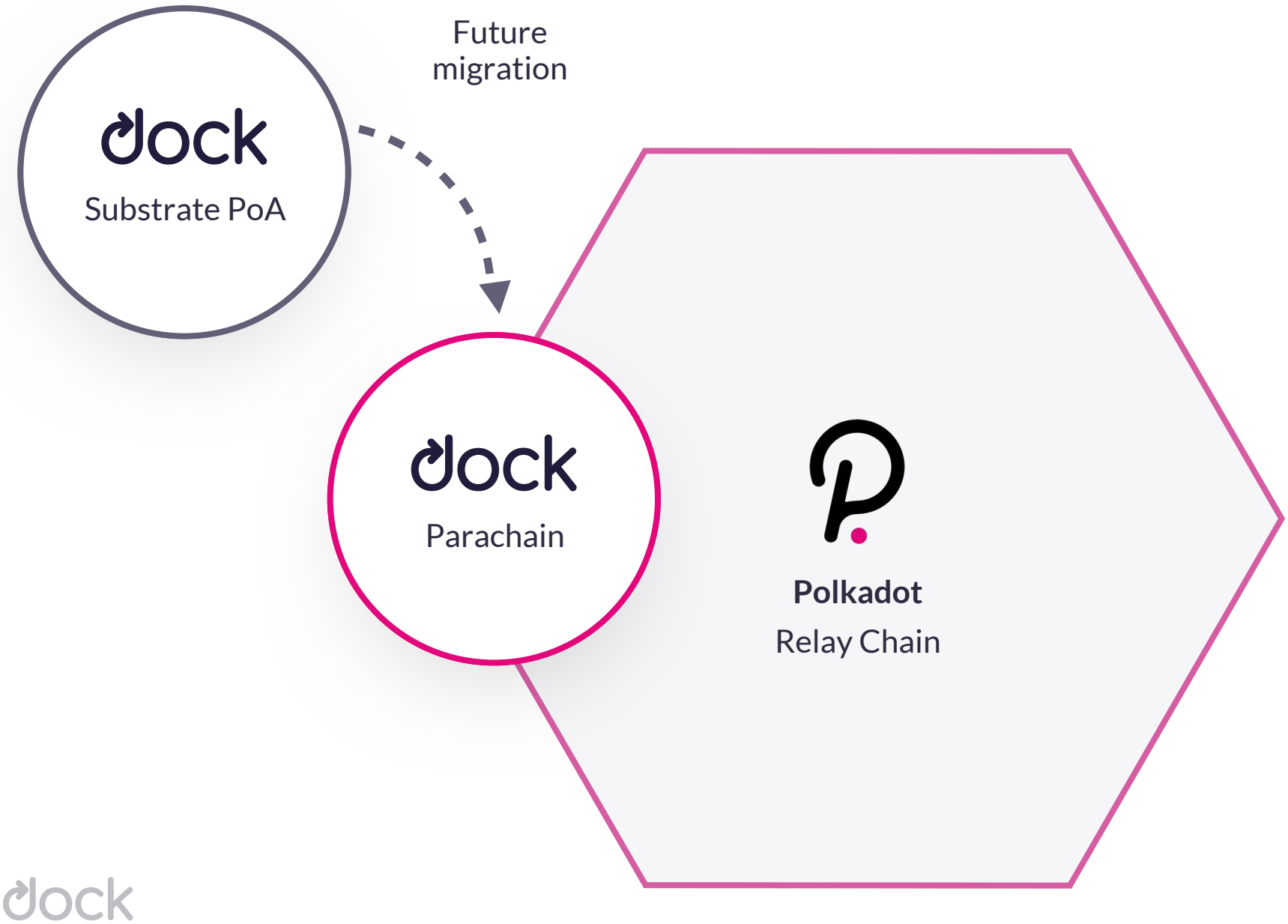
These considerations and a vote from the Dock community, DGP 2, concluded the Polkadot interchain ecosystem would be optimal for Dock. As Polkadot, and the entire ecosystem, are still under active development, our current development roadmap reflects this through a Substrate solochain as the basis for a custom parachain implementation.

Dock Blockchain

Consensus

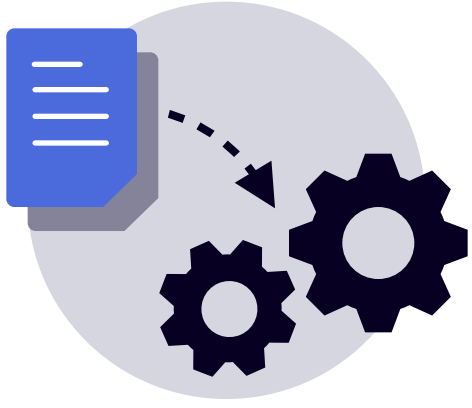
The first incremental release of the Dock network will ship as a Proof-of-Authority(PoA) Substrate solochain implementation prior to a Proof-of-Stake(PoS) “hot-swap” and subsequent custom parachain based on the evolution of the Polkadot network.

Substrate’s on-chain upgrade mechanism enables this evolution from PoA, simplifying development requirements and enabling the Dock network to soft-launch and begin driving value to ecosystem participants without dependencies.



Dock Blockchain

Participant Roles



Issuer

Places order for records to be issued.

Issuing Operator

Executes order as they are placed by Issuers.

Validator

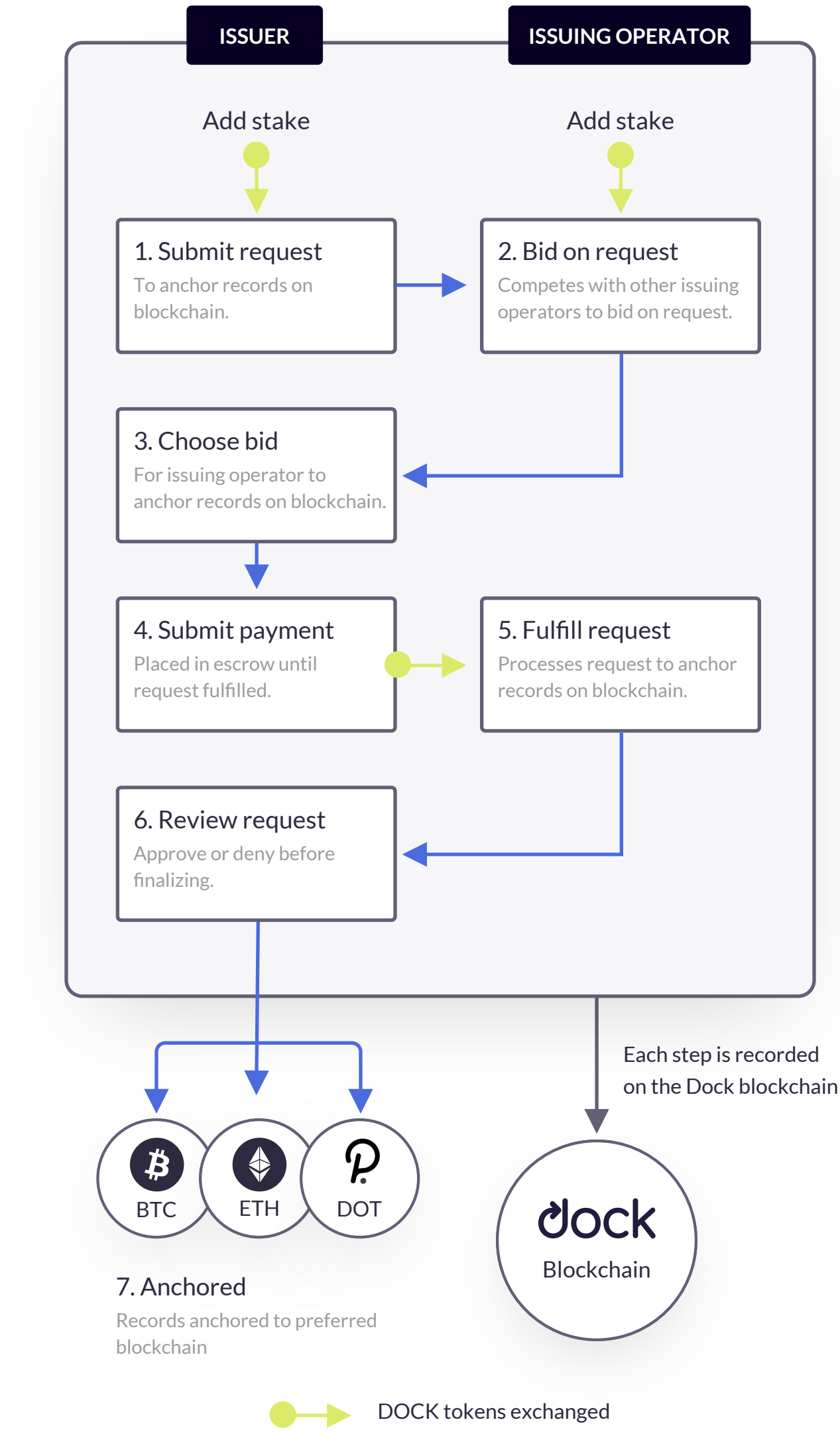
Validates transactions in the network and participates in consensus.

Governor

Any Dock token holder has the ability to vote on proposals and participate in consensus.

Dock Blockchain

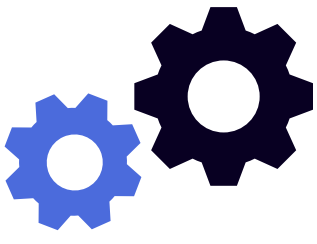
How it Works



Dock Token

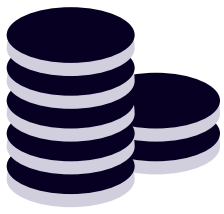
Governance

Token holders are able to submit proposals and vote on decisions contributing to network governance.



Operations

Good actors are rewarded for contributing to the network and bad actors are published by losing stake.



Bonding and Payment

Network participants use tokens to bond and for payments to place requests for issuing and executing those requests.

Governance

Governance is a vital element of building a decentralized network and Dock is committed to iterating towards a decentralized state.

Proposals and Voting

Community members are able to submit proposals, as outlined in DGP 1, while DOCK holders cast their votes for decisions that directly influence the success of the Dock network.

Consortium

The consortium will consist of influential network participants and issuers who will drive adoption of the network and standards in the best interest of all participants.

DAO

The ultimate goal of the Dock network is the evolution to a Decentralized Autonomous Organization(DAO) for the issuance of universally verifiable records and claims. The DAO will be directly responsible for the administration, operations, and evolution of the blockchain. This progression towards DAO governance will take some time but we will work closely with best practice solution leaders such as Aragon to accelerate these efforts.

Use Cases

Education

Transcripts, exam results, course completion, certifications, awards

Trade Associations

certifications, trainings, awards, merits

Government

ID’s, passports, birth certificates, social security docs, death certificates, marriage certificates

Healthcare

Healthcare records, exam results, licenses

Workforce

Skills training, awards, industry certification

Legal

Licenses, patents, wills, court verdicts

Roadmap

Dock is currently aiming for a Polkadot Parachain implementation in 2020. Here is a breakdown of the current plan for this progression:

2019

Q3

Substrate Core Module Integration

This will begin the integration of modules into our Proof-of-Authority chain for two tokens; a DOCK representation as utility and a proxy token as a temporary stablecoin.

Job Scheduler Runtime Module (Phase I)

This runtime module will process job requests, fire events, and accept bids for issuers and issuing engines.

Issuing Engine (Phase I)

This is the core engine implementation for job acceptance, bid response, award acceptance, and job fulfillment.

Q4

Job Scheduler Runtime Module (Phase II)

This extends Phase I to completion for dissemination of requests and bid acceptance to/from issuers and issuing engines, job delegation, and acceptance, verification, and settlement of completed jobs.

Issuing Engine (Phase II)

This extends Phase I for handling account and escrow management for chain stakes at the issuing engine level.

Q4 (Cont)

Staking and Slashing Module

Implementation of core chain and job staking and slashing mechanisms.

Issuing Engine (Phase III)

This extends Phase II to completion with engine staking and UI capabilities.

2020

Q1

Proof-of-Authority Solochain

This allows us to use Substrate in order to bring a working solution live prior to the custom Parachain implementation.

Q2

Parachain Bridge

This is the first stage of evolution from the Proof-of-Authority Solochain by bridging in to the Polkadot ecosystem.

Q3-4

Polkadot Parachain