OATH Protocol

Blockchain Alternative Dispute Resolution Protocol

Yin Xu
Oaths.io
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CONTENTS

INTRODUCTION

BACKGROUND

Blockchain provides the general public with a useful mechanism for reaching consensus. It combines the world's leading technologies and theories, namely, theoretical computer science, mathematics, algorithms, cryptography, game theory, and economics. Blockchain brings to the world a promising decentralized internet, new ideas, and business opportunities.

To protect the decentralized communities and keep them running, we need a highly secure and trustable system. Smart contracts generally remove the barrier of trust between users. They reduce the intermediary costs that may exist in the transaction process. With unsupervised, self-executing "contracts," individuals can do business and collaborate without ever meeting or knowing each other. The design and concept of smart contracts applies to many different scenarios, such as e-commerce, insurance, home rental, banking, financial services, import and export, and many others. Smart contracts, however, have been neither widely accepted nor utilized due to several limitations: difficulties in contract preparation, inability to verify off-chain information, functional limitations, lack of on-chain governance and dispute resolution, and pseudonymity.

CORE ISSUES

DIFFICULTIES IN CONTRACT PREPARATION

Smart Contract is written in a computer programming language, such as Solidity, C++, et al. Few users have the requisite knowledge and experience to write a correct and secure smart contract. This creates an extremely high bar for potential smart contract users.

UNABLE TO VERIFY OFF-CHAIN INFORMATION

Smart contracts cannot effectively verify or authenticate off-chain information for real-world businesses, therefore creating loopholes for contract fraud.

FUNCTIONAL LIMITATIONS

Because a smart contract is a self-executing program written in a computer programming language, it works according to the terms and conditions originally written in the code. This limits its ability to resolve disputes not included in the codes.

LACK OF GOVERNANCE AND DISPUTE RESOLUTION

Decentralization is the key feature of a blockchain application. When a dispute arises, it is difficult for both parties to find a credible third party to resolve the dispute. In the decentralized world, it is particularly difficult for traditional courts or arbitration institutions to enforce the rules and resolve the disputes.

PSEUDONYMITY

Identity protection is one of the most prominent features of blockchain. Blockchain's identity protection, however, also enables potential manipulation of the system and even fraud. Although all blockchain transactions are public and immutable, one's identity is concealed (i.e., all transactions are not anonymous, but they are pseudonymous), and disreputable users may simply change their identity and commit fraud over and over again.

Those core issues we mentioned above are extremely important for smart contracts. We will have to resolve them, so that smart contracts can be safer and more useful.

CASES IN POINT

BLOCKCHAIN E-COMMERCE C2C

Party A: Seller of a pre-owned luxury handbag in "like new" condition

Party B: Buyer

Party B purchased a pre-owned luxury handbag from Party A on an e-commerce blockchain platform. After receiving the handbag, Party B argues that the bag is not in "like new" condition and requests to return it. Party A argues that the photos provided on the platform clearly show the condition of the bag, which matches the provided description. Party A refused to refund. Both sides hold their own views and cannot reach a resolution.

BLOCKCHAIN INSURANCE SERVICE

Party A: Blockchain health insurance service provider   Party B: Patient

Party B signed a smart contract with a blockchain health insurance service provider. When Party B submits a claim for compensation from Party A, it is difficult for Party A to determine the truthfulness of the claim. For a decentralized service provider, it's difficult to decide whether the customer's claims are in compliance with the terms of the insurance, or whether the amount claimed is in accordance with the circumstances.

BLOCKCHAIN SHORT-TERM RENTAL

Party A: Landlord   Party B: Tenant

Party B rented a house through a blockchain 'airbnb-alike' platform. After the lease ended, Party A found that the TV was damaged and asked for compensation. Party B insisted that he is not responsible of the damage and refused to pay. As there is no centralized customer service, the two parties cannot effectively resolve this dispute.

BLOCKCHAIN COPYRIGHT PROTECTION

Party A: Blockchain Content Copyright Platform User
Party B: Copyright Owner

Party A registered IP on a blockchain-based copyright protection platform. The actual copyright owner, Party B, finds out that his copyright is pirated and appeals to the platform. Due to the lack of an arbitration mechanism, the merits of both parties' claims cannot be determined easily.

BLOCKCHAIN BET OR PREDICTION

Blockchain prediction platforms have become wildly popular. People like to use the platforms to predict game results, campaign results, and even the weather. It is, however, difficult to determine the authenticity of some of the controversial results without external input.

As the above cases illustrate, a comprehensive smart contract system and a fair dispute resolution mechanism are much needed in the blockchain community.

OATH PROTOCOL

OVERVIEW

OATH is a blockchain-based alternative dispute resolution protocol. It is an infrastructure layer between chains and dApps. By using a decentralized juror community with a complete new consensus mechanism, Proof of Common sense, OATH provides a robust, fair, transparent, and extensible dispute resolution protocol.

OATH serves as a blockchain governance system that provides an effective warranty for smart contracts. If one side is dissatisfied with an outcome, resulting in a dispute, there will be a decentralized third party with no conflict of interest to resolve the dispute. The availability of a dispute resolution mechanism improves the reliability of smart contracts and provides a dependable protection mechanism for blockchain users.

OATH acts as an insurance protocol for dApp users, protecting them from undesirable counterparty behavior. Once the OATH protocol is initiated, OATH jury community will vote on the verdict to resolve the dispute. OATH protocol will greatly improve users' credibility and ensure that all contracts are guaranteed by an objective system and that, in case of a dispute, the parties have an unbiased, objective jury handling it.

OATH can also provide verification of real-world information, which is presently a big issue for blockchain. As a standard protocol, any dApp that utilizes OATH may request any kind of real-world information from our jury community, our jurors will provide information, and the rest of the jury community will vote to verify the information's authenticity and accuracy.

PROOF OF COMMON SENSE

OATH Protocol introduces a new consensus mechanism, Proof of common sense. It is not used by nodes to confirm the on-chain data. Instead, it is a consensus mechanism that is used within the OATH jury community.

OATH jurors only need to rely on their common sense to decide cases based on contract terms, evidence, and testimony. They do not need to be experts in any field or area. As blockchain users, they have sufficient knowledge to evaluate the evidence and determine the case outcome.

OATH jury is a community of regular blockchain supporters and dApp users. Not only will they help regulate the chain or dApp they support, but they can also provide their knowledge and service to other ecosystems. They will be rewarded for using their common sense to resolve disputes.

SOLUTIONS

OATH will provide extensions for multiple smart contract programming languages, allowing users to agree on dispute resolution solutions and default claims agreements when writing smart contracts or blockchain applications. OATH will also provide an infrastructure layer for dApps so that developers can directly integrate OATH protocol..

At the same time, OATH will also provide a smart contract construction interface that will greatly reduce barriers to using smart contracts. By providing common contract templates, OATH will improve the usability of smart contracts in a variety of scenarios. The templates will include many typical applications and scenarios, such as e-commerce, copyright protection, OTC transactions, and others. OATH protocol will be built into the template and include a dispute resolution plan, compensation agreement, and other related fields. All smart contracts written through the OATH smart contract interface are automatically secured by the OATH protocol.

The heart of the OATH protocol is our jury community. They protect the integrity of smart contracts that incorporate the OATH protocol by adjudicating any potential disputes. The OATH jury community will also serve to link news, events, and predictions between blockchains and the real world.

DISPUTE RESOLUTION MECHANISM

In the Anglo-American common law legal system, the jury operates with distinct blockchain characteristics. The jury is usually comprised of 12 jurors (each country's particular details vary slightly), randomly selected from the general adult population. At trial, the judge presides over the proceedings and resolves questions of law and procedural issues. The jury is tasked with the responsibility of resolving issues of fact at the judge's direction based on presented evidence and, based on the facts, deciding the outcome of the case.

After the closing arguments in court, the jury has the opportunity to privately deliberate and discuss the evidence presented in court. According to the judge's instructions relating to the law, the jury then decides, based on the evidence presented in court, which side prevails and returns a verdict.

The jury pool is comprised of citizens who are randomly selected from the general population, without any additional requirements of knowledge or skill. Jurors use their common sense and understanding to evaluate the arguments and evidence presented by the parties and render a verdict. Random selection results in a diverse jury composition, and the jury's diverse backgrounds and experiences ensure that the facts are considered from different viewpoints, resulting in a fair verdict. At the same time, the randomly selected jury fairly represents the general population, and the verdict based on their consensus fairly represents the consensus and understanding that the general population would reach based on the same evidence.

The jury system aligns with the decentralization of the blockchain democratic idea. All community members share the consensus that underlies the verdict, and the decisions are made by randomly selected representatives of the community.

The OATH dispute resolution protocol, therefore, is modeled on the common-law jury system and utilizes blockchain, cryptographic algorithms, random algorithms associated with categories and attributes, credit level, and case-tracking technology. OATH jurors, from different backgrounds and variant professions, guarantee to provide resolution of contract disputes by contents, evidence, testimonies and debates.

Blockchain technology will ensure the authentication of smart contracts agreements and immutability of the evidence provided by both parties.

Identities of the OATH jurors are kept strictly confidential and encrypted to make sure that their decisions are objective and free from external influence. Jurors will provide information relating to their relevant categories like age, gender, nationality, occupation, and educational level. OATH's categorized random

algorithm then randomly selects jurors based on those categories.   OATH will also assign a credit level to jurors to assess and reward the jurors' behavior. Jurors will get higher ratings for correctly voting for the prevailing party. On the other hand, serial wrong judgments will reduce jurors' ratings. Higher credit level results in higher awards and better odds of being selected for disputes.

OATH will establish relationship attributes for jurors to reduce the probability of joint participation in cases. This means that the same group of jurors is unlikely to be selected to resolve consecutive disputes, preventing the jurors from colluding on their votes.

The OATH platform allows the contracting parties to control the process by allowing them to set parameters for the dispute resolution process, such as the number and categories of jurors and the number of votes necessary to prevail. The verdict will be transparent, and the jurors' votes and reasons of voting will be made public once the case is closed. The decisions are appealable. The case details and dispute resolution result will be encrypted and saved on blockchain. Cases are classified and indexed as well for future reference, subject to the privacy policy.

OATH protocol aims to provide a warranty for blockchain contracts and improve their reliability, preventing the blockchain and smart contracts from being plagued by unresolved disputes. Along with the blockchain development, the OATH protocol will launch additional services for blockchain security and governance built on the principles of decentralization, justice, reliability, and efficiency.

ADVANTAGES

BLOCKCHAIN SECURITY

A fair, robust, transparent, and extensible blockchain governance protocol can greatly improve the reliability of dApps and blockchain.

QUICK AND EFFICIENT

In the event of a dispute, OATH dispute resolution cases can be generated automatically if signed and confirmed by any party, with no additional process required. Both parties will then have five days to provide relevant evidence, and the jury will have two days to review and decide the case. In most cases, it only takes 7 days to render the verdict.

JUSTICE AND FAIRNESS

OATH takes advantage of the transparency and reliability of the blockchain to make sure that the contents of each case cannot be modified or deleted. It also helps keep the jurors' identities are kept in strict confidence to preserve objectivity and prevent external influence. In addition, OATH algorithms ensure that jurors selected for each case are from diverse backgrounds.

OATH provides several options for the contracting parties to set the criteria of the dispute resolution process. For example:

Number of jurors (odd number, from 11 to 101)

Percentage of votes needed to prevail (51% - 100%)

Categories of jurors required (e.g., gender, age, nationality, language, occupation, education background, credit level, etc.)

During the voting process, neither the jury nor the parties can see the votes. After the verdict has been rendered, the votes and jurors' reasons therefor will be released publicly. Any party may appeal the result. The appealed-from outcome will not be disclosed to make sure that the new jurors are not biased. The results of the appeal will also be included in the credit level evaluation system for jurors.

MANAGEABLE COST

Users will deposit OATH tokens to facilitate the dispute resolution plan in their smart contract, which will serve as the arbitration fee for disputed cases. If the contract is successfully executed, the deposit will be returned to both parties without any additional cost. In the event of a dispute, the arbitration fee will be awarded to the jurors who correctly choose the prevailing party.

To have enough jurors willing to provide their time and effort to resolve cases, once the case is initiated, OATH will notify its jurors about key details of the case, such as arbitration fees, number of jurors required, and so on. Once they receive the notification, the jurors may decide whether they want to participate in the the case. If not enough jurors accept the case, OATH will reject the resolution plan and require the parties to change the plan details to incentivize juror participation, for example, either by increasing award to jurors or reducing the number of jurors required. This allows the parties to control and manage the cost of resolving their dispute.

EFFECTIVE EXECUTION

When constructing a smart contract, both parties may set a default compensation plan in advance. In the event of a dispute, once the results are confirmed by both parties (or neither party objects), OATH will automatically send the result back to the smart contract, and it will automatically execute based on the the rules originally defined by both parties.
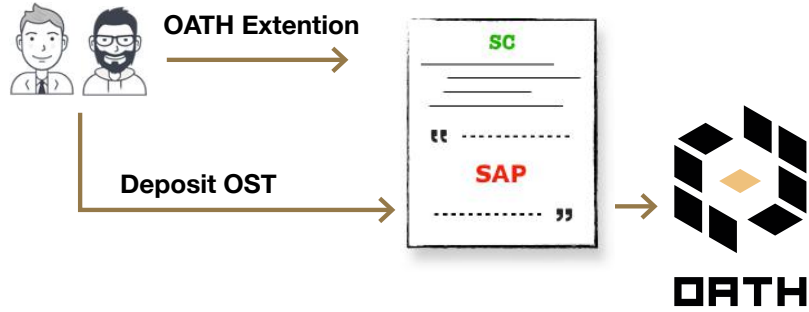
TRACKABLE CASES

OATH will encrypt the contents of smart contract disputes and store them in the OATH blockchain. This will create an immutable case record and increase the security of smart contracts, allowing jurors and other interested parties to review the previously decided case verdicts at any time.
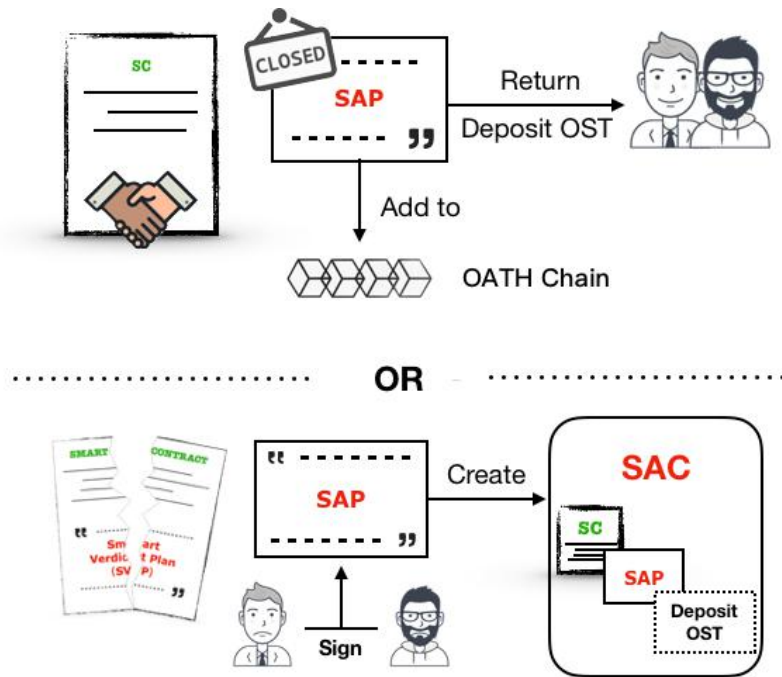
USER FLOW

01

OATH works as a smart contract extension and protocol. Through OATH, both parties can add the Smart Arbitration Plan (SAP) and set dispute resolution parameters to their smart contract at the time of its creation. SAP will require a deposit of a set amount of OATH tokens (OATH) to resolve potential disputes.

02

Once the smart contract is deployed, OATH tracks the contract progress. In the event that each party is satisfied with the result, the case is closed and the SAP returns the deposited OATH. The SAP information is then encrypted and placed on the OATH chain.

03

If either party initiates a dispute, the SAP gets converted into a Smart Arbitration Case (SAC) and the deposit into an award fee.

After that, both parties may set the following criteria for the dispute resolution process:

Number of jurors (odd number, from 11 to 101)

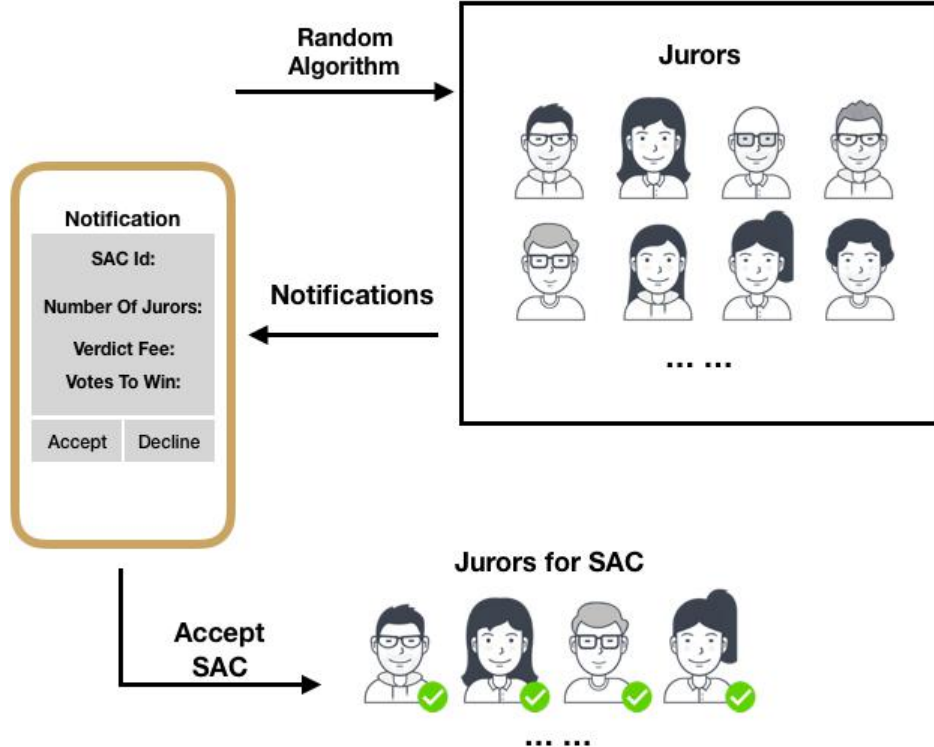Percentage of votes needed to prevail (51% - 100%)

Resolution fees (by default, amount of OATH deposited into SAP)

Categories of jurors required (e.g., gender, age, nationality, language, occupation, education background, credit level, etc.)

All these settings will be encrypted and saved on the OATH chain.


04

OATH chooses the jurors using the Categorizing Random Algorithm based on their categories and attributes within SAC settings. Two thirds of the jurors will fit the categories set by the counterparties (One third each, and if the number of jurors in full compliance is insufficient, the rest shall be filled by those partially qualified). The remaining third will be randomly selected through the OATH algorithm, excluding the

categories specified by both parties.

OATH will identify twice the required number of jurors and notify them of the basic SAC details, such as the total number in jurors, percentage of votes needed to prevail, award fees, and so on. Juror candidates may decide whether to accept the case on the based on the provided information. The jury is filled on a first-come-first-employed basis, i.e., after the three major category groups (both parties and the OATH platform) have enough jurors, no more jurors will be accepted to the jury. If there is an insufficient number of jurors willing to take the case, both parties can modify the SAC to attract more candidates, e.g., by increasing the award fees or lowering the total number of jurors required.
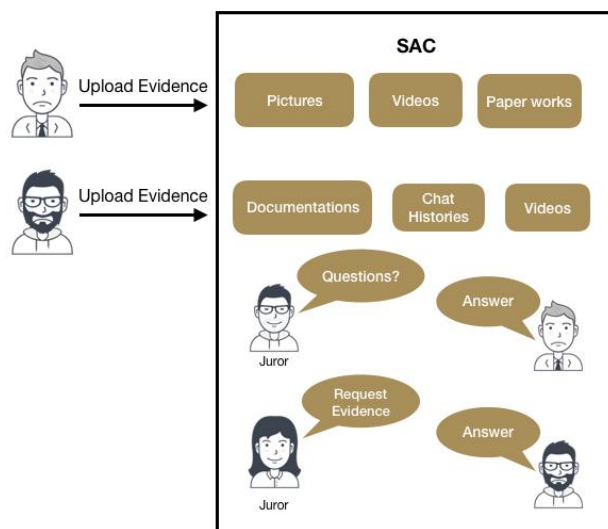

The counter-parties will have five days to upload their arguments and supporting documents (text, pictures, videos, etc.). During this period, either side may apply for an extension, paying an additional deposit in proportion to the extended days. For example, a five-day extension requires an extra 100% deposit of OATH Token.

Jurors can comment on the provided materials and ask follow-up questions or request additional evidence. To incentivize participants to address critical points and participate in the discussion, community will reward their interactions by awarding token bonuses and credit scores. Jurors' identities are concealed to ensure that they remain objective and free from external influence throughout the process.

Once the evidence has been fully submitted, jurors will have three days to vote and provide rationale for their votes. Both parties and jurors may access the votes and written opinions only after the case is closed, and certain information (like jurors' identities) will remain
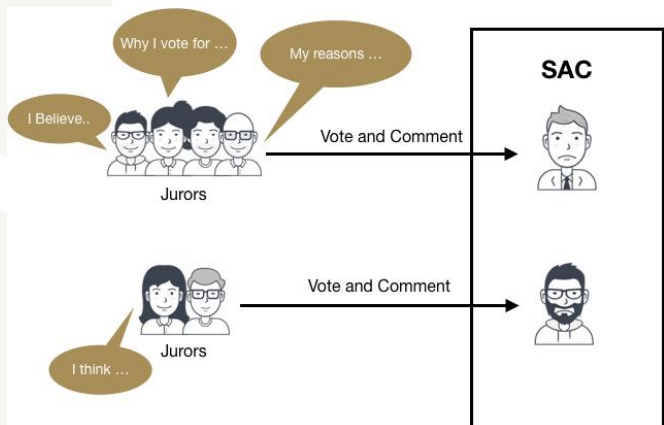
confidential. Jurors who correctly identify the prevailing side will be awarded dispute fees as well as credit scores.
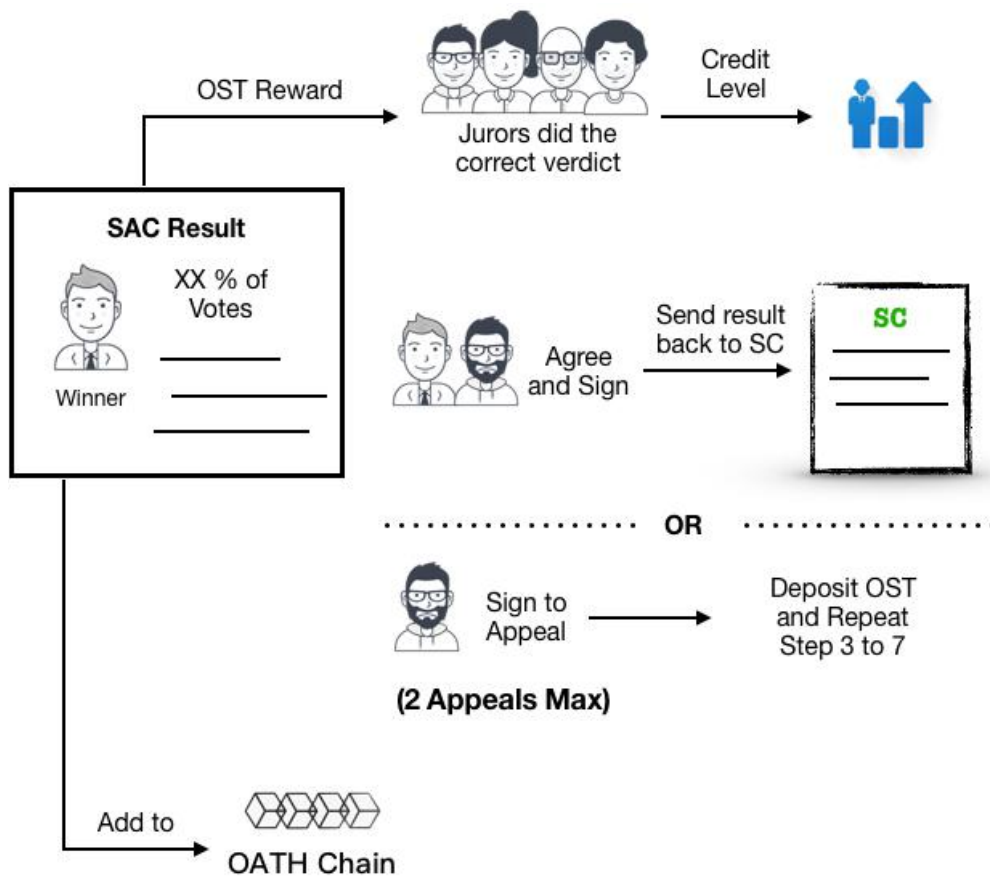
After the votes are collected, the case resolution result will become public. The result will include the votes, rationale for voting, prevailing party, and selected jurors' categories so that the parties and juror community may have a clear understanding of the result. Jurors who correctly identified the prevailing side will receive weighted awards according to the credit level formula. Judges are incentivized to achieve higher credit levels because as one's credit level increases, so do the awards.

Parties will have five days to either confirm or appeal the verdict. If both parties confirm the verdict or fail to appeal within that timeframe, OATH will send the result back to the smart contract, and the smart contract will execute automatically according to the result.

Either side may initiate an appeal, which requires an additional deposit to facilitate another round of dispute resolution. In case of an appeal, OATH will open a new SAC, repeating steps 3-7 above. Appealed-from case results will not be disclosed to new jurors to prevent bias. Appeal fees are higher, and appellate juries will be comprises of jurors with higher credit levels so that the most experienced judges are invited to decide the case on appeal. Each SAC is programmed to accept up to two appeals, and the final appeal result will be automatically returned to the smart contract.

USE CASES

OATH offers dispute resolution services for a wide range of commercial contracts covering a variety of subject matters. For instance, OATH can effectively settle disputes on e-commerce platforms, including B2C and C2C. We also help secure cryptocurrency and blockchain transactions that may present unequal trading risks. Oath's use cases include - but are not limited - to the following dispute resolution examples:

BLOCKCHAIN E-COMMERCE DISPUTES

Party A: Seller of a pre-owned luxury handbag in "like new" condition
Party B: Buyer

Party B purchased a pre-owned luxury handbag from Party A on an e-commerce blockchain platform. After receiving the handbag, Party B argues that the bag is not in "like new" condition and requests to return it. Party A argues that the photos provided on the platform clearly show the condition of the bag, which matches the provided description. Party A refused to refund.

The platform incorporates the Oath Protocol, and the dispute resolution agreement contains the following conditions:

The dispute is decided by 21 jurors, no category requirement, with prevailing ratio set at 60%;
If Party A prevails, the payment is automatically released to Party A;
If Party B prevails, the payment is automatically refunded to Party B once the item is returned to Party A.

Once Party B initiates the dispute, an SAC is created automatically. Party A uploads relevant photos, communication history with Party B, as well as a statement detailing the condition of the item. Party B also uploads relevant evidence to the evidence pool.

Once the jury reviews the evidence, over 60% of the jurors side with Party A, eliminating the need for a refund. Once both parties confirm the dispute resolution result, OATH returns the result to the smart contract, which then automatically transfers the money to Party A. Jurors are allocated their award, and the case is closed.

NEWS VERIFICATION

Party A: A group interested in accurate news reporting

Early news reporting is oftentimes vague and conflicting, due to the lack of verified information and the abundance of unverified rumors from multiple channels. OATH allows Party A to crowd-verify the facts.

To generate interest, Party A initiates an SAC and deposits OATH tokens to reward evidence-collection and verification. OATH users submit the facts and information they are aware of, and other users vote to confirm the veracity of the submitted information.

BLOCKCHAIN INSURANCE

Party A: Blockchain health insurance company
Party B: Insured individual

Blockchain technology facilitates innovative insurance models, and OATH works really well with those models, providing a fair and efficient decentralized claims-verification service.

Party A and Party B signed a smart insurance contract that uses OATH as a service provider for coverage determination. To obtain insurance payment, Party B, the insured, initiates an SAC for the insurance claim. Party B needs to upload all relevant evidence to support the claim, such as pictures, medical appointment confirmation, medical billing statement and diagnosis, and so on. The smart insurance contract contents are automatically added to the SAC evidence pool. Based on the contents of the contract and provided evidence, the jurors will vote to decide whether the insured's claim is covered and he or she is entitled to the payment.

TECHNICAL ARCHITECTURE

ARCHITECTURE
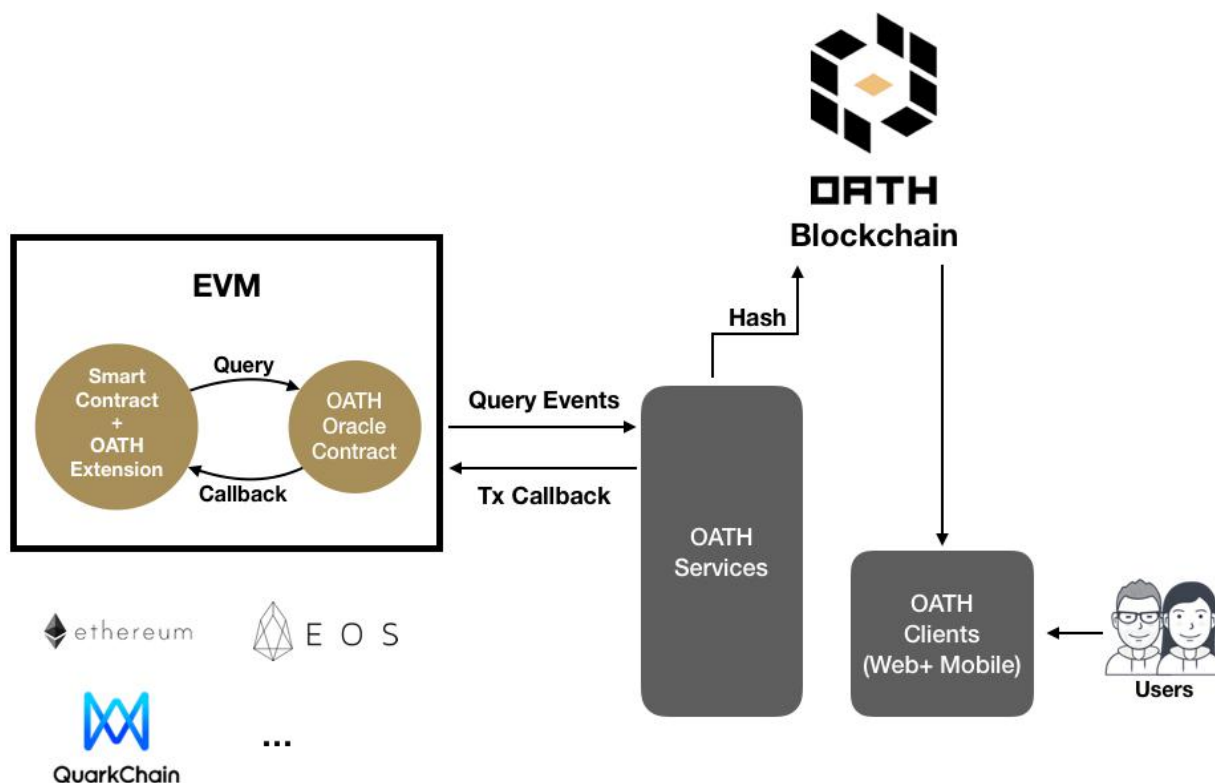
In blockchain, smart contracts are executed on a closed environment virtual machine, which is an isolated system that has no interaction with external environment. This means that smart contracts are unable to communicate directly with external world or obtain any outside information.

To address this issue, an Oracle may provide off-chain data to trigger the data source to execute smart contracts. The Oracle may receive queries from the contract by monitoring specific events, and the data is returned by the callback method by the Oracle. Therefore, OATH will employ an Oracle to bridge the gap between the public chain and the OATH platform.

OATH protocol will provide smart contract extensions for mainstream public chains (including, but not limited to, Ethereum (ETH), QuarkChain (QKC), EOS.io (EOS), etc.) that contain the APIs related to OATH dispute resolution services. OATH Oracle smart contracts will also be deployed onto public chains as bridges between smart contracts and external OATH services.

When a smart contract with built-in OATH protocol and filled APIs is successfully deployed to the public chain, it will send relevant Queries to the OATH Oracle on that chain. The OATH monitoring services will receive the relevant Query Event that the OATH Oracle sends out. OATH services will encrypt and store associated information in its blockchain (i.e., establishing resolution plans, putting on record resolution

cases, etc.). If any data, such as the case result, needs to be sent back, the data will be transmitted via external services to the OATH Oracle, which will then send the data to the relevant smart contract in API callbacks. To ensure the information's reliability and security, OATH provides trustworthy techniques for proofs based on TLS Notary. TLS Notary is primarily in accordance with the secure transport layer protocol, TLS 1.1, used to guarantee confidentiality and data integrity between two communication applications. Its advantage comes from its independence from the application protocol, and higher-level protocols can be transparently distributed on the TLS protocol.

TLS consists of three basic phases:

Key algorithms supported by peer negotiation;
Public key exchange based on private key encryption and authentication based on PKI certificates; and
Confidential data transmission based on public key encryption.

Throughout the transmission, the TLS master key can be divided into three parts: the server, the auditee, and the auditor. During the process, data sources from the OATH node serve as the server side, OATH services serve as the auditee, and a specially-designed, open-source service deployed on the cloud platform serves as the auditor. Everyone can review and verify the data provided by OATH in the past through this auditor service to ensure the integrity and security of the data.

OATH BLOCKCHAIN
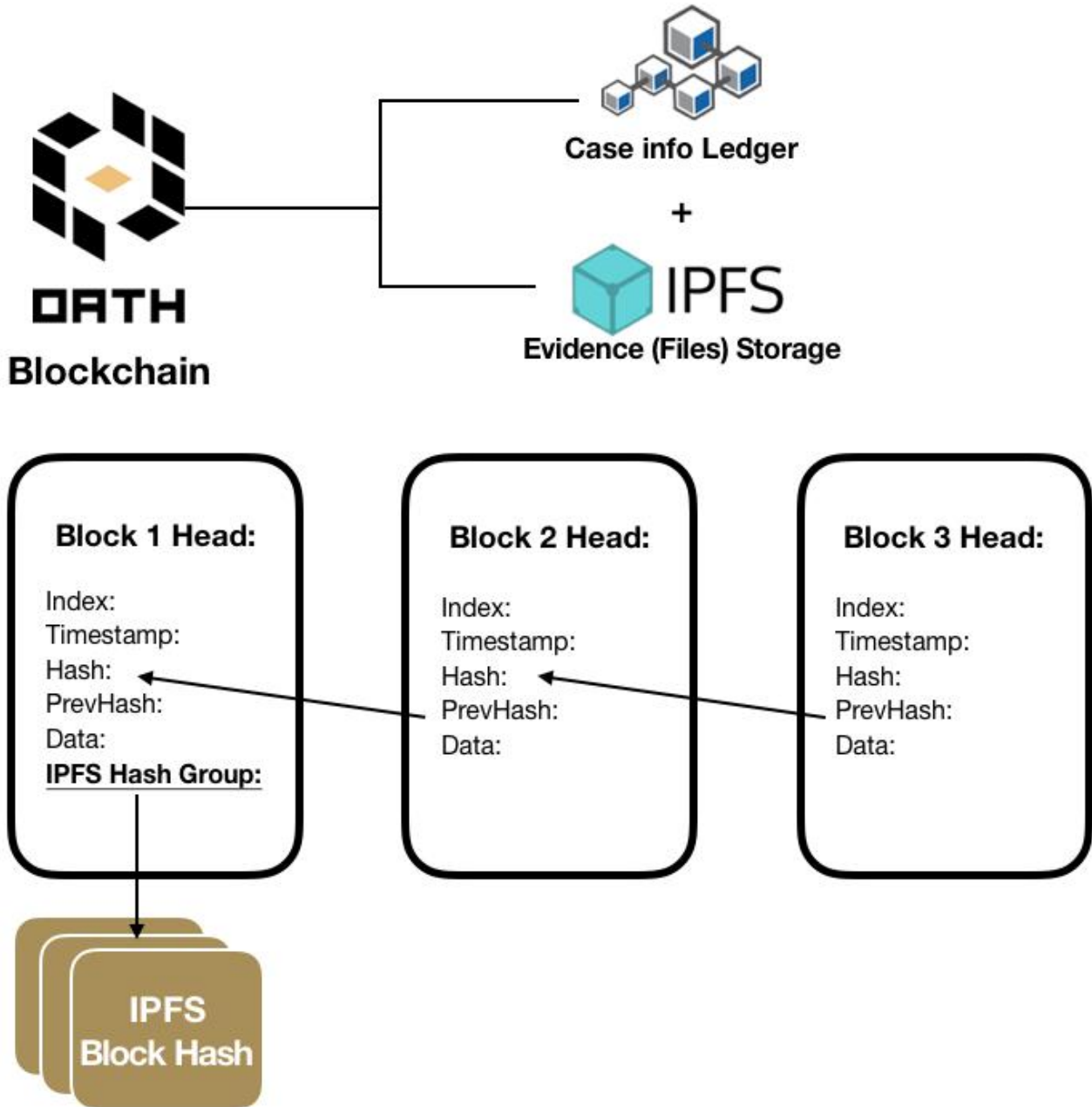
The OATH chain contains one case ledger and one IPFS for file storage.

The case ledger contains all case information, such as contracts, verdicts, voting reasons, selected jurors, etc. OATH will also have an IPFS to store case-related evidence files.

The IPFS (InterPlanetary File System) is a network designed to create a content-addressable, peer-to-peer method of storing and sharing hypermedia in a distributed file system. It replaces traditional domain names with content addresses so that users don't have to consider names and paths of file storage. Placing a file on the IPFS chain yields a unique hash value calculated based on its content. The hash value

directly reflects the contents of the file. Even a one-bit change can result in a completely different hash value. When IPFS is requested to calculate the hash value of a file, it will use a distributed hash table to find the node where the file is located, then retrieve the file and verify the data contained therein. IPFS is a general-purposed infrastructure with few storage limitations, in which large files are divided into small sections that can be downloaded from multiple nodes at the same time.

IPFS is a flexible, fine-grained, distributed network that is well suited to the requirements of content storage and distribution. If evidence is contained in the case information ledger, there will be additional IPFS Hash Group data that contains IPFS Hash Key for all related evidence files. An encryption algorithm will generate the private key for the IPFS-stored file, whose contents will not be disclosed to ensure the security and confidentiality. The case information will be formed by several linked blocks, such as:

SAP block, which contains encrypted contract contents, contract currency, billing addresses of both parties, etc.
SAC block, which contains its own hash value, information about the jurors who decided the case, IPFS Hash Group of the case evidence, etc.
SAC verdict block, which contains the hash value of the SAC block, encrypted voting results, voting processes, etc.

NODES

OATH Nodes: PoS
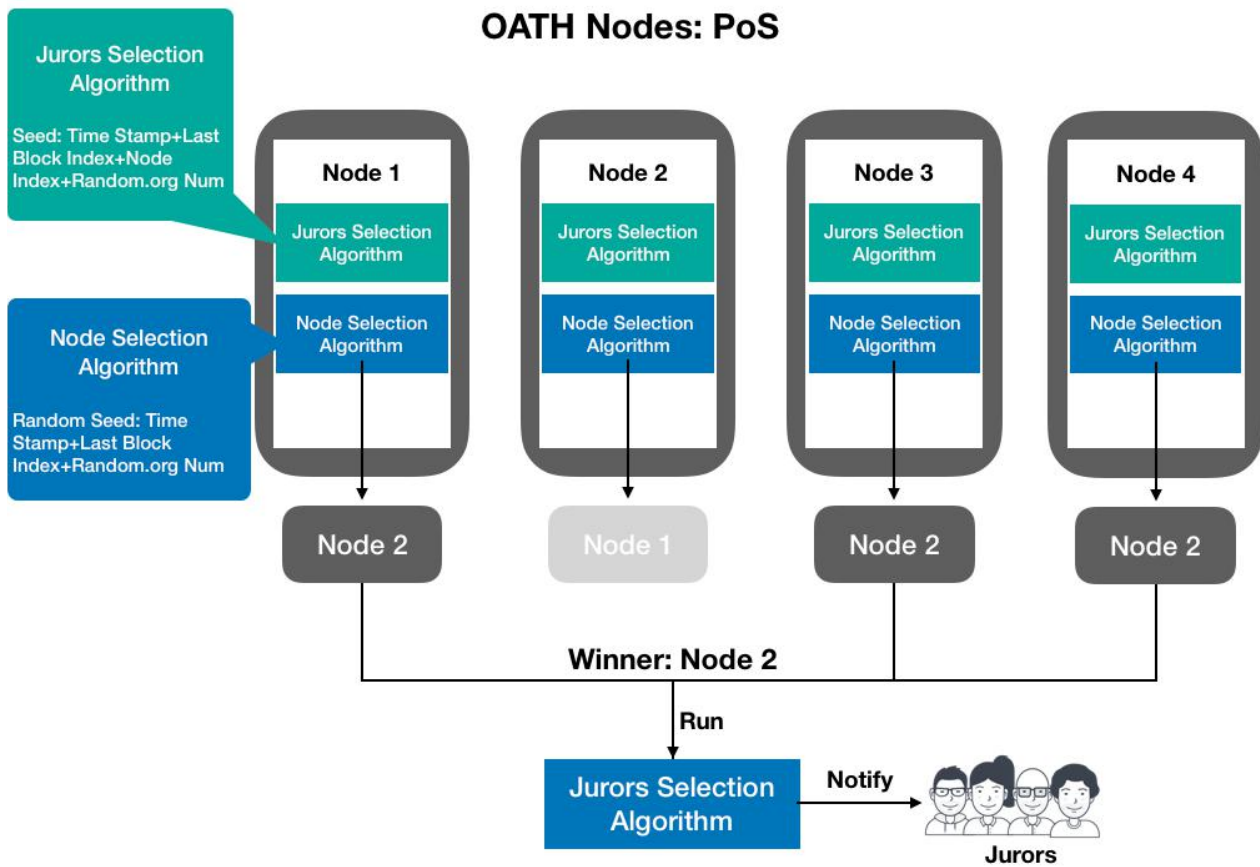
The OATH Chain nodes adopt the consensus mechanism of PoS. Each node is responsible for storing case information and evidence files. The nodes also run OATH's external services, such as Oracle Query Event monitoring services and juror selection algorithms.

The monitoring service on the Nodes monitors query events sent out by the OATH Oracle and conducts corresponding operations through the information contained within. All nodes will be monitoring collectively, and after receiving the Event information, the nodes will compare and confirm it with nearby nodes. Once more than half of them are confirmed, a Node will be selected by the 'PoS Node selection algorithm' to start running the relevant services.

For jurors' selection algorithm, OATH uses the categorized random algorithm, which will randomly select jurors based on certain categories. The random seed is constructed by current Timestamp with the latest block index and random numbers generated from Random.org. Adding random numbers from Random. org increases the randomness and security of the algorithm.

OATH will provide two user clients: a web app and a mobile app. The web app is mainly responsible for case presentation, initiation, evidence upload, voting, result presentation, etc. The mobile app will have similar functions to the web app, providing an additional convenience of push case notifications to the jurors.

JURY SYSTEM

KYC & IDENTIFICATION

Users may apply to serve as jurors on the OATH client. To do so, they will need to submit certain information, like gender, age, nationality, language, professional background, occupation, etc. For the purpose of providing fair and reasonable dispute resolution services, initially, OATH will have a Jury Community Management (JCM) team. The JCM team will examine the identities and qualifications of juror applicants and set initial credit levels according to the applicants' backgrounds. The JCM team will also run promotions to incentivize a robust juror community, e.g., bonus awards for new jurors joining the community; bonus awards for maintaining a successful track record, etc.

As the number of jurors increases, the community will conduct this process autonomously. Community jurors with high credit levels can review the backgrounds and identities of new applicants, recommend candidates, vote for approvals, and determine initial credit level through comprehensive scoring. They will be rewarded by tokens for successful approvals and when their referrals correctly decide a certain number of cases.
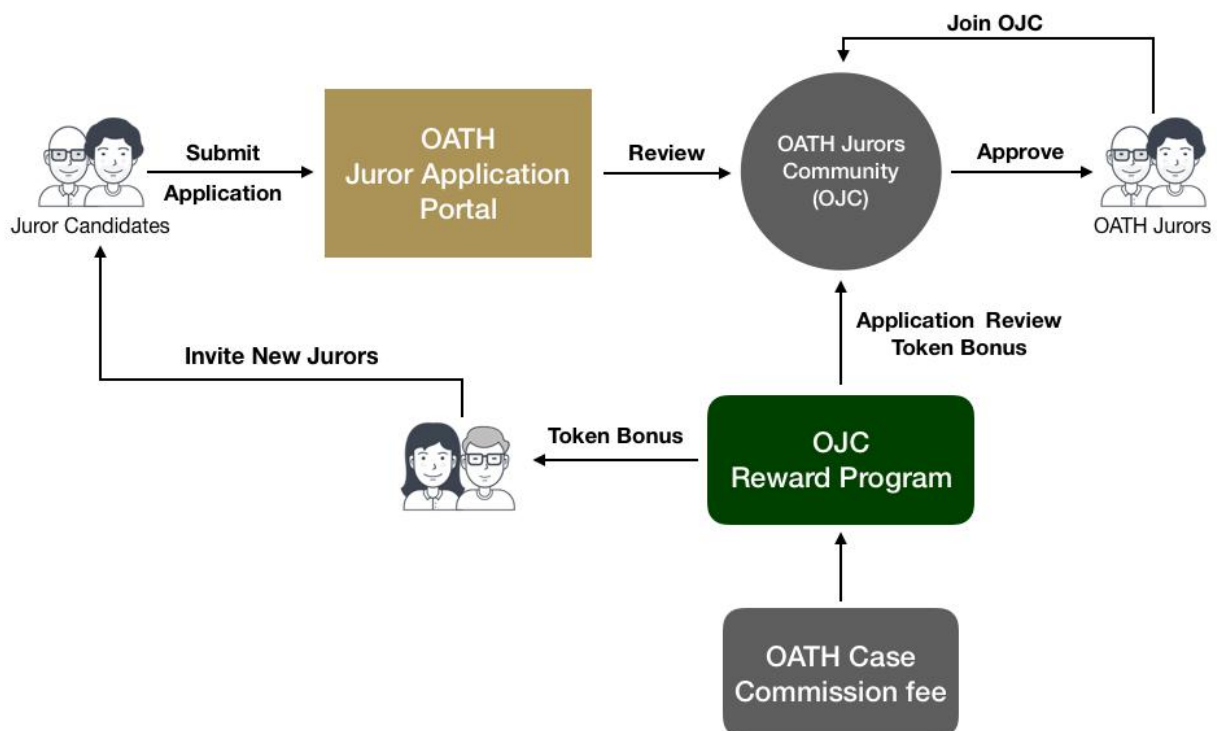
CATEGORIES & ATTRIBUTES

Every juror in the OATH community is assigned Categories and Attributes. Categories contain their personal information and serve as keys for classification and more scattered random screening. Attributes are designed to avoid possible collusion or fraud, and are adjusted based on the juror's case history and the platform development.

Categories include: age, gender, nationality, language, major, occupation, education, etc. Because fair resolutions require consensus of the general public, OATH will pool jurors from diverse backgrounds to decide each case. Users will provide the relevant category information in their applications. Once the information is submitted, it can be modified via a subsequent application that requires approval by the juror community.

Attributes reflect the map of dynamic relationships between jurors, tracking whether any two jurors have participated in the same case. OATH will record this collaboration relationship and prioritize jurors with no recent attributes in recent cases. This map is constantly adjusted, avoiding potential collusion and fraud that may to occur in continuous groups.

JUROR SELECTION ALGORITHM

To select jurors, OATH uses the modern version of the Fisher-Yates shuffle algorithm, presented by Richard Durstenfeld in 1964 and popularized by Donald E. Knuth in The Art of Computer Programming.

The algorithm is used to generate a random permutation of a finite sequence; in other words, the algorithm shuffles the sequence. The algorithm effectively puts all the elements into a hat; it continually determines the next element by randomly drawing an element from the hat until no elements remain. The algorithm produces an unbiased permutation: every permutation is equally likely. The modern version of the algorithm is efficient: it takes time proportional to the number of items being shuffled and shuffles them in place.

In the first step, the Fisher-Yates algorithm generates a random sequence of all jurors. In the second step, the jurors are divided into three groups (two category-specific groups and one random group) based on the conditions specified by the parties. Because the party-specified conditions might not be mutually exclusive, it is possible that the same juror fits both category-specific groups. In that case, the juror is placed into the group with fewer members or, if both groups have the same number of jurors, the juror is places in the first-matched group. If a juror does not match either party's specified categories, the juror is placed into the random group. Once all three groups are filled, the process is completed.

The complexity of the algorithm is O(N), which is proportional to the number of jurors.

```
1.  let a := array_of_jurors
2.  let n := a.length
3.
4.  struct bucket {
5.      data; // juror bucket array
6.      func; // function returns true if the given juror fits
    the requirement for this bucket
7.  }
8.
9.  // Phase-1 Fisher-Yates shuffle
10. for i from n−1 down to 1 do
11.     j ← random integer such that 0 ≤ j ≤ i
12.     exchange a[j] and a[i]
13.
14. // Phase-2 Bucket filling
15. let fulfilled := false
16. for i from 0 up to n−1 do
17.     If bucket_1.is_full() and bucket_2.is_full() and bucket
    _3.is_full():
18.         fulfilled = true
19.         break
```

```
20.    If (not bucket_1.is_full()) and bucket_1.func(a[i]):
21.        bucket_1.data.append(a[i])
22.
   else if (not bucket_2.is_full()) and bucket_2.func(a[i]):

23.        bucket_2.data.append(a[i])
24.    else if not bucket_3.is_full:
25.        bucket_3.data.append(a[i])
26.
27. // Phase-3 final check
   if not fulfilled:
28. throw exception("No sufficient amount of jurors for this el
   ection")
```

JUROR CREDIT LEVELS

OATH introduces a Credit Level System to encourage and enforce reasonable and fair decision making by the jurors. The system has 20 levels, and jurors with higher credit levels earn more heavily weighted token awards for services performed on the platform. New jurors, after KYC verification and evaluation by a number of statistical methods, are assigned an initial credit level, from 1 to 5. Jurors may level up once they reach certain point thresholds, and jurors accumulate points through active case participation and correctly deciding case outcomes.

Jurors' credit levels and scores can be expressed as follows:

In which, $L \in [1, 20]$ is the credit level, P stands for the credit score, ε (t) is the standard step function satisfying the description of the standard saving signal, and Fibo stands for the Fibonacci sequence.

the credit level numerical table is as follows:

Changes in credit scores are determined by several factors in each case of dispute resolution:

$$L = 1 + \sum_{i=1}^{n} \varepsilon \left(P - \left(1 + \sum_{j=1}^{i} Fibo(j) \right) \right)$$

Credit scores are determined by the following factors:

1. Voting: Correctly deciding case outcomes (voting for the prevailing party) has the biggest impact on credit scores. Voting for the winning party earns 2 points, whereas voting for the losing party subtracts 2 points. To maintain the fairness and stability, platform will greatly decrease the credit scores of jurors who make continuous wrong choices

2. Response Time: Timeliness also affects one's score. Jurors have to render verdicts within the prescribed period. Voting within that period earns 1 point. Failure to make a decision within the prescribed period results in a null vote, which may affect the case outcome. Overtime decisions, therefore, subtract 2 points from the score, and repeat failures to render timely decisions will result in heavier penalties.

3. Appeals: Although no juror can satisfy all expectations and fit everyone's concept of justice, jurors are motivated to render objective and unbiased verdicts. The appellate review, handled by higher-leveled jurors, sufficiently reduces the potential for bias. If the appeal is denied (and the original result is upheld), prevailing jurors' votes will earn an additional 1 point, to reward them for correctly deciding the case outcome. If the original result is overturned, however, former prevailing jurors will lose 3 points, and jurors whose votes align with the appellate result will earn 2 points.

Credit Level	Points	Points to level up
1	1	1
2	2	2
3	4	3
4	7	5
5	12	8
6	20	13
7	33	21
8	54	34
9	88	55
10	143	89
11	232	144
12	376	233
13	609	377
14	986	610
15	1596	987
16	2583	1597
17	4180	2584
18	6764	4181
19	10945	6765
20	17710	

CASE

Juror Bob made the right choice in a dispute resolution case, in which he was awarded 2 points. The choice was made within the specified time, for which 1 point was awarded, 3 credit points in this resolution. Bob obtained 3 points in this case. Assume that this dispute case is appealed, and higher-leveled jurors will be selected. Although Bob has no right to participate, he will still receive an extra point if the appeal is upheld. In the end, he obtained four credit points for his involvement for the verdict.

For Example: Bob earns 2 credit points for voting for the prevailing party, and an additional point for voting within the prescribed time frame, earning a total of 3 points for participating in the dispute resolution case. If the case is appealed, and the result is upheld on appeal, Bob will receive an extra point. At the end, Bob will have earned 4 points for correctly and timely deciding the case.

Assume a juror gets Pi credit scores after each case:

$$p_i = P\left(R(r_i), T(t_i), C(c_i)\right)$$

$R(r_i)$ is the credit integral function corresponding to case voting results

$T(t_i)$ is the credit integral function corresponding to case decision time

$C(c_i)$ is the credit score function corresponding to appeal results

The juror's cumulative credit score is $P_{total} = \sum P$

To improve the durability of the OATH platform, we simulated the credit level distribution of jurors after 2000 cases. Most jurors end up between levels 5 and 15, and the difficulty of upgrading to higher levels exponentially increases.
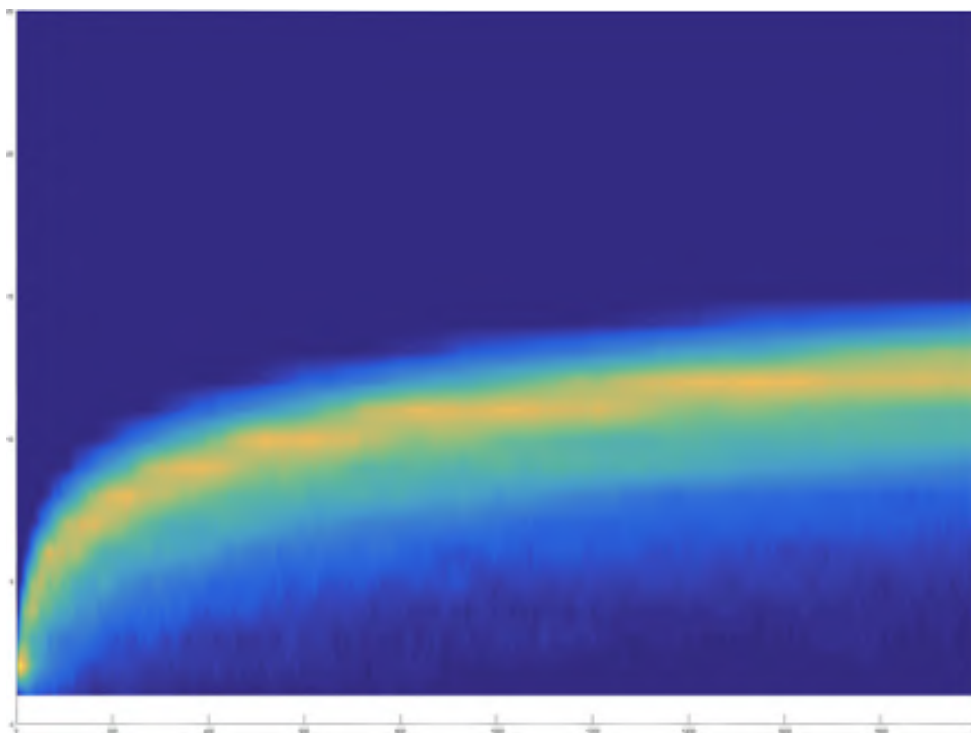
THE HIERARCHICAL DISTRIBUTION OF JURORS AFTER 2000 DISPUTE RESOLUTION CASES

REWARD MECHANISM

A juror's credit level is a reflection of that juror's professionalism and good judgment. To facilitate and maintain a healthy growth of the platform, OATH encourages jurors to obtain and maintain a high credit level, which increases their token awards. Within the OATH platform, each juror's token award is proportional to that juror's credit score. The specific distribution is as follows:

$$R_j = Fee \times \frac{S_j}{\sum_{i=0}^{n} S_i}$$

Fee is the total resolution payment of the dispute, S_j is the current credit score of the Jth juror,, and R_j is his/her reward.

To facilitate community growth and development, early jurors may be assigned higher credit levels and awards, and early adopters may also be involved community growth and management to ensure sustainability and operation of platform.

OATH TOKENS

OATH will issue 10 billion (10,000,000,000) ERC-20 tokens (OATH) to facilitate all transactions that take place on the OATH platform, mainly as awards for resolving disputes, mining nodes, and community maintenance and management.
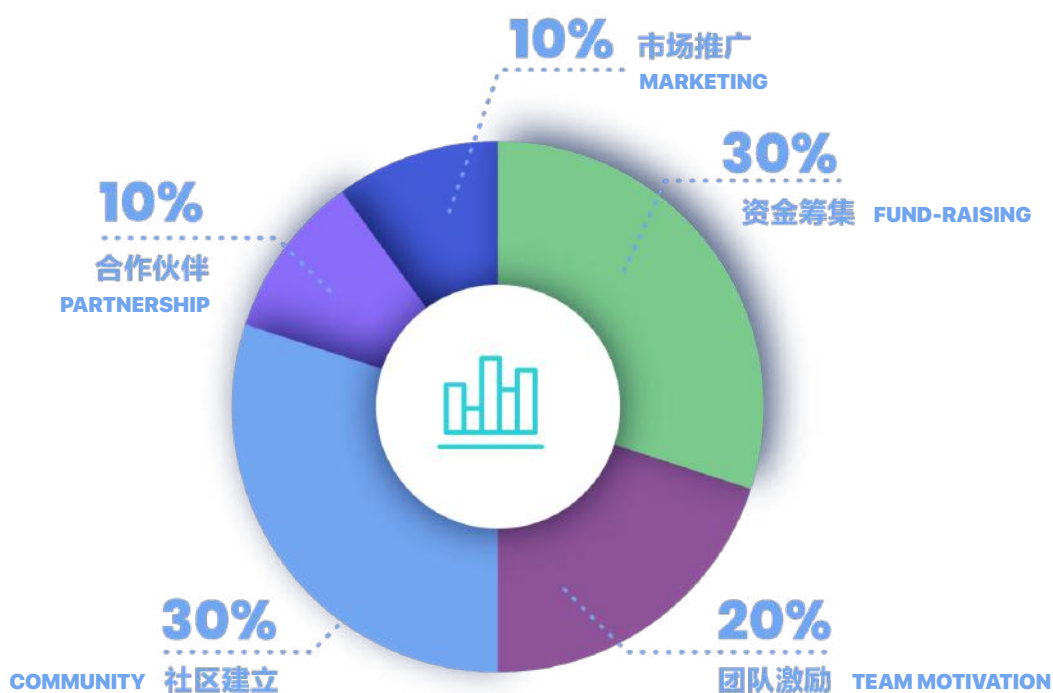
OATH can be earned by community members for acting as nodes, arbitraging contracts, or providing other community services.

Jurors will be rewarded with OATH tokens for participating in dispute resolutions. In each case, the jurors who correctly vote for the prevailing party will be rewarded according to the "Case award formula." Jurors may also get rewarded for inviting more jurors and maintaining and governing the Juror community by reviewing new juror applications, setting categories for new jurors, reviewing finished cases and providing feedbacks for jurors, and so on.

The mining nodes will get OATH tokens by providing data storage, running algorithms, and other OATH platform-related blockchain services.

To utilize the OATH protocol, users will have to pay a certain amount of OATH Token as the operating cost of the platform, which will vary with the number of outstanding cases and the liquidity of OATH tokens.

ALLOCATION

10% 市场推广 MARKETING

30% 资金筹集 FUND-RAISING

10% 合作伙伴 PARTNERSHIP

30% COMMUNITY 社区建立

20% 团队激励 TEAM MOTIVATION

OATH tokens will be allocated as follows:

30%: Fundraising

20%: Team, recruitment, etc.

30%: Community operations, recruitment of jurors, incentives for jurors, etc.

10%: Marketing

10%: Strategic partners and advisors

Raised funds will be allocated as follows:

Product development: The OATH platform relies on complex systems, blockchain technology, multiple user clients, and so on. We need a solid, experienced team to develop and maintain the entire ecosystem and carry out the project of the highest quality as scheduled.

Team building: The OATH team includes professionals from different areas of expertise, such as blockchain technology development, product design, legal business, business development, marketing, community management, user growth, etc.

Business development: To provide a great product and a fair system, OATH will work with legal authorities across jurisdictions to advance the overall project. OATH will also work with major public chains and reputable dApps to advance the protocol's use in different areas.

Marketing: The OATH Protocol aims to become the standard blockchain dispute resolution protocol and effectively improve the reliability of smart contracts.

PROJECT ROADMAP

2017-Q4
OATH PROJECT CONCEPT
MARKET RESEARCH

2018-Q1
OATH WHITE PAPER
PROOF OF CONCEPT

2018-Q2
OATH FUNDRAISING/TEAM BUILDING
PARTNERSHIP DEVELOPMENT

2018-Q3
PRIVATE SALE
PRODUCT DESIGN/PRODUCT DEVELOPMENT
COMMUNITY BUILDING

2018-Q4
TEST SDK/API PROTOCOL LAUNCH
ORACLE SERVICES/SMART CONTRACT
DEPLOYMENT
JUROR COMMUNITY BUILDING

2019-Q1
OATH MVP WEB CLIENT LAUNCH
PARTNER INTEGRATION

2019-Q2
OATH MOBILE CLIENT LAUNCH
BUSINESS DEVELOPMENT

2019-Q3&Q4
PROTOCOL FEATURE UPDATES
OATH CHAIN TESTING

OATH TEAM

YIN XU

Founder & CEO

Yin Xu holds a Bachelor of Science (Computer Science) from University of Wisconsin. Yin's experience includes working as an engineer at the Marshfield Clinic Research Foundation, one of the largest health care research foundations in the US. There, he contributed to and led several healthcare projects that involved mobile application development and big data and co-authored several publications relating to healthcare technology. Yin is the winner of a nationwide contest, Million Hearts Risk Assessment Challenge, held by the Department of Health and Human Services (HHS) of the US.

Following his work at the Marshfield Clinic Research Foundation, he joined a Silicon Valley tech company, Trip.com, as the tech lead, where he led the entire mobile team. There, Yin developed the app that ended up winning multiple awards, including "Best App of the Year," "Editor's Pick, and "Best Developer," among others, from Apple and Google. Yin's was one of only four apps (among millions of contenders) in the Google store that has won all of their rewards. Trip.com was acquired by CTrip by the end of 2017.

Yin is a passionate blockchain believer, having paid attention to blockchain technology since 2015 and contributed to several projects, including an ETH Wallet, dApps, and smart contracts.

OATH TEAM

BONING ZHANG

Co-founder

Boning Zhang is a graduate of the Institute of Electronic Engineering and Computer Science at Peking University. He also holds a Master's Degree in Computer Science from the Chinese Academy of Sciences. In 2014, he decided to forgo completing his doctorate degree and instead focus full-time on entrepreneurship.

Boning is the technical founder of Beijing Beyond Technology Co.; security specialist and founding partner of the cryptocurrency exchange ex-btc.com; senior researcher on blockchain since 2013; and CTO of Mianmian (Shanghai) Intelligent Technology Co., Ltd.

As one of the pioneers and technical explorers of crypto exchanges, Boning has unmatched knowledge and understanding of the blockchain technology. He is a true believer in the future implementation and development of the blockchain.

OATH TEAM

HONGWEI WANG

Co-founder & Head of Engineering

Hongwei Wang holds an undergraduate degree in Physics from Tsinghua University. Following graduation, he worked on developing one of the first Weibo websites in China, jiwai.com, and later led the China Mobile 139.com project. In 2009, Hongwei joined FreeWheel in Shanghai as senior engineer. He joined Google Shanghai in 2011 and moved to Google's U.S. headquarters in Silicon Valley in 2012. At Google, Hongwei worked on Google Keep, News & Weather, YouTube, and Android Auto.

Hongwei is passionate about emerging technology research and discussion, specifically system architecture, data analysis, distributed systems, computer algorithms, and blockchain bottom technology. He is constantly learning and exploring new technologies, focusing on system architecture, data analysis, distribution systems, computing algorithms, and blockchain technology.

OATH TEAM

JENNY VATRENKO
Co-founder & COO - US

Jenny brings her legal experience and business development acumen to round out the Oath team and expand our presence in the US.

Jenny joins Oath's founding team from Heyi Blockchain Group, where she advises blockchain startups and established businesses in the US and Asia on business and legal strategy. Prior to Heyi, Jenny spent six years at Boies Schiller Flexner – top litigation firm in the US – working on some of the most high-profile disputes of the past decade, including the valuation of AriZona Iced Tea company, Bill Ackman's pyramid scheme allegations against Herbalife, and the Sony Pictures hack. Her experience encompasses all stages of litigation, from inception to trial, across state and federal courts as well as alternative dispute resolution programs. She has also spent one year at the District Attorney's office in Brooklyn, NY, where she prosecuted misdemeanor offenses in the sex crimes bureau, leading several cases through successful jury trials.

Jenny has a Juris Doctor degree from Georgetown University Law Center in Washington, DC, and a Bachelor of Business Administration summa cum laude from Baruch College in New York City. Jenny was born and raised in Ukraine.

OATH TEAM

MICHAEL WURZINGER

Community Manger

Michael Wurzinger, formerly with Siemens and Mercedes Benz, has recently made a name for himself as Shanghai's Blockchain Event Organiser & AION Ambassador.

Michael is a successful entrepreneur, having started a furniture trading company and an e-commerce trading company between 2015 and 2017. Michael joined the blockchain space in early 2017 and was immediately fascinated by its disruptive potential. In early 2018, he moved to Shanghai, where he was awarded a scholarship at Shanghai Jiao Tong University. Here, in addition to improving his Mandarin language skills, he also developed a passion for public speaking and event management and started to build up a local blockchain community, which counts 700+ members. During this time, he hosted several events for NEM, EOS, AION (where he became an Official Ambassador), Lympo, and others, and rapidly built up reputation and a large network within the Blockchain Industry.

Michael is passionate about building and fostering communities as well as the blockchain-enabled technology innovations. He is fluent in German, English, Spanish, Italian, and Mandarin.

OATH TEAM

RONG FU

Head of Quantitative Modeling

Rong Fu graduated from Oxford University in the United Kingdom with a major in mathematics modeling. She has previously worked for an investment fund and invested in several TMT projects. In 2013, she began to focus on blockchain technology and big data. In 2015, she founded Mirahome, an IoT (Internet of Things) company, and was responsible for the overall operation and financing of the company that raised tens of millions of dollars in investments.

OATH TEAM

DANYAO ZHOU

Head of Design

Danyao Zhou holds a Master's Degree from the University of Illinois at Urbana-Champaign. Danyao is a graphic/UI/UX designer, focusing on cross-industry design and innovation. She has previously worked at the Terry Guen design office in Chicago and Shenzhen Urban Planning and Design Institute and Meetbest and is experienced in UI Design of Internet products, visual design, graphic design, illustration design, big data visual design for urban planning, etc.

Danyao has designed UI/UX products and all kinds of Visual/Interaction works. She is a winner of several international awards, including the Hongqiao Airport Renovation Concept Design Nomination Award, International Solar Decathlon Award by the US Department of Energy in 2013, Melbourne 'Low Carbon Transit City' Strategic Design Competition Honorary Award, and has designed the cover of Sponge Urban Construction Planning and Management for China Construction Industry Press.

OATH TEAM

XIAOYU HUANG

Content Manager

Xiaoyu Huang holds a master's degree from Columbia University a bachelor degree from the University of Miami, where she spent time studying abroad at Tokyo University, Japan. She has previously worked at the world-class firm, OMA, in Rotterdam, with colleagues from more than ten countries on complex projects that involved coordination with local government, investment bank, and other firms involved in the projects. She was also a member of team of City Re-construction and Tourism Development Project in Haiti, where she worked on planning and design tour lines. During her time in New York, Xiaoyu worked at a real estate branding company, the 7th art, where she was involved in the branding of several luxury residential buildings along the Hudson River.

Along with the consensus building of the public to blockchain, she kept her eyes and worked on development of blockchain, smart contracts and risen of protocols. She believes application of blockchain could bring us giant changes and development.

OATH ADVISOR

JIA TIAN

Advisor

Jia Tian holds B.S and M.S in Computer Science from Tsinghua University. He has worked at Baidu and Alibaba, specializing in distributed systems as well as the R&D of artificial intelligence. He began focusing on the blockchain in 2011, and has since been a Bitfinex investor, Bitfund chief scientist, Venture Partner of Zhenfund, Data Foundation scientist, and Cortex chief scientist. Ho continues to be involved in the space as a senior technical expert on blockchain, technical adviser for several prominent blockchain projects, including IOST, DDEX, CNN, and others.

OATH ADVISOR

HUAWEI KONG

Advisor

Huawei Kong is a Director of the Institute of Computing Technology at the Chinese Academy of Sciences (Shanghai branch) and a partner at Qidian Capital. He is a graduate of Peking and Zhejiang Universities, Department of Physics. He is a former chief scientist at Zhangjiang Branch Investment and VP of the Shuguang Information Industry Group.

Focusing on supercomputing and grid computing technology, as well as regional innovative ecological research, Huawei is the torch start-up mentor of the Ministry of Science and Technology. He founded several innovative organizations, including ITALK Salon and IC Coffee, and invested in core microelectronics companies, including Qiniu Cloud Storage, Minhu Technology, Zhongsheng optoelectronics, Ruili Science Instruments, Sunspot Technology, Kite Tripod Information, Titanium Communication, Mirror Vehicle, Pioneer Energy, etc. Having focused on bitcoin and blockchain technology since the end of 2013, he has served as a technical adviser of Onebit, authored "The Rugged Evolution of Digital currency," and currently works as the scientific consultant for Chia Nan-yung Science. In recent years, he has been involved in blockchain projects such as Scry.info, Rufft, INT, Smart Mesh, DBC, and others.

OATH ADVISOR

XIAHONG LIN

Advisor

Lin is a senior engineer in blockchain application and an early evangelist in etheric technology, with seven years of experience in the currency field. He has previously worked as a director of Edmodo mobile technology, Twitter mobile development engineer, and assistant researcher in Tencent Research Institute.

Lin established the Bodhi Forecasting Market in 2017 and is committed to building a next-generation decentralized forecasting market using blockchain technology. Lin holds a master's degree in computer science from Purdue University and a master's degree in cryptography from Shanghai Jiaotong University, as well as a bachelor degree in computer science from Xi'an University of Electronic Science and Technology.

OATH ADVISOR

DAVID HONG

Advisor

David Hong is a Founder and Director of Business Development for Heyi Blockchain, an affiliate of the Chinese world-renowned law firm King Wood and Mallesons. Previously, he worked at an international law firm in New York and another in Bangkok. David's practice focuses on foreign direct investments, mergers and acquisitions, technology and telecommunications. At his firm, David is the lead contact for many technology companies, including eToro and Coursera. He is interested in the capabilities of blockchain to democratize and decentralize traditional industries and improve existing business models.

David is a Chinese-American, born in Chongqing, China and grew up in California. He attended UCLA and Claremont McKenna College in California for his undergraduate degree and received his Juris Doctor from Georgetown University in Washington, DC. David lives in Shanghai with his girlfriend and five cats.

OATH ADVISOR

DAFENG GUO

Advisor

A lifelong technologist with a deep passion for blockchain, Dafeng brings world-class technical capabilities to EOS Asia. As co-founder and CTO of Strikingly, one of the world's top publishing platforms, Dafeng has architected systems that serve millions of users and billions of pageviews. He was named Alibaba Cloud Tech MVP in 2017. As co-founder of Strikingly, he was accepted into Y Combinator W13 batch. Dafeng has previously developed trading systems and infrastructure at Morgan Stanley, Goldman Sachs, and Yahoo. He received his BS in Computer Science at CUHK.

OATH ADVISOR

RUI ZHANG

Advisor

Rui is a co-founder of NAD Grid, a Silicon Valley based blockchain-energy startup. Rui is an experienced corporate lawyer and is skilled in structuring transactions, negotiating contracts, ensuring regulatory compliance, and providing policy analysis. Rui has counseled blockchain-tech projects on business and regulatory issues, including White Paper release, public token sale, private funding, etc. Rui has served as corporate counsel at the headquarters of CITIC, one of the largest financial service companies in China, for four years. Rui holds degrees from Harvard Kennedy School of Government, Cornell Law School, and Peking University Law School and possesses a strong background in both law and policy. While at Harvard, Rui counseled Alibaba's research team on its U.S. investment strategy.

OATH ADVISOR

ZAINAN ZHOU

Advisor

Zainan Zhou is an Ethereum core contributor, known for proposing ERC 1202: Voting Standard as the first author. He is a Software Engineer and Tech Lead at Google. Working on the Google Advertising Platform, Zainan led the team that designed and implemented a large scale data reporting system for the ads conversion system, and received the PA-level top 10 annual accomplishment award and innovation award. At Knowledge Graph, he is responsible for data integration between Google and Wikipedia and has enabled and drove dialog between Google and Wikimedia Foundation (CEO/ED-level) for cross-org strategic collaborations. Zainan has served as an investment analyst and management consultant, and participated in the negotiation of actual controllers between Tsinghua Unigroup and an undisclosed target of a $23Billion M&A deal. He is also an experienced community builder, best known for co-founding two highly active Bay Area Chinese communities ZaiGeZaiGu Community and Haoshiyou Housemate Matching Platform. Zainan has also worked with Microsoft Research Asia, Tsinghua Ventures, and Amino Capital. Zainan holds a Bachelor degree in Automation from Tsinghua University and a Master's in Computer Science from JHU.

OATH ADVISOR

ANNETTA LI

Advisor

Annetta graduated from Nanyang Academy of Fine Arts in Singapore, majoring in Visual Communication Branding, and has a wealth of brand planning, marketing and team management experience. She has established two brand and event planning companies to advise Singapore brands entering other ASEAN markets. She has also led the planning and completion of a number of Belt and Road projects, and strengthened the connection with domestic and foreign customers. She possesses a rich interpersonal network and marketing experience in Singapore and other 10 ASEAN countries. She has planned and organized the Silk Road International Film Festival-ASEAN Film week, 10 ASEAN major media's China tour, China- ASEAN cultural capacity (film) cooperative workshop, and Malaysian e-commerce exhibition, among others. She currently focuses on developing brand promotion, activity planning, and community operations for blockchain projects. She organized a roadshow and brand press conference for Influence Chain and an opening ceremony for EasyChain, which involved appearances by celebrities, blockchain experts, and thousands of blockchain practitioners.

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