Omnia Protocol Whitepaper

1.1. Overview

1.0verview

Nowadays, access to blockchain infrastructure is concentrated in the hands of a few corporations. It is a known fact that these corporations are exploiting the metadata generated by the users that access the blockchain. The reasons are obvious - to gain financial advantages, either by directly selling the data to other

Moreover, there are blockchain ecosystems (e.g. Ethereum) where almost 90% of decentralized applications and critical systems are connected to the same node provider, leaving them at a high risk of becoming unavailable. In November 2020, a bug within the node software used by the aforementioned centralized node provider caused an Ethereum outage, where major exchanges and wallet providers halted their

operations.

parties or by using it to take decisions that ultimately lead to greedy profits.

1.2. What is Omnia? Omnia Protocol is a decentralized infrastructure protocol for securely accessing the blockchain, so that no single point of failure will ever disrupt blockchain applications or wallets integrating with it. At the same time, it allows anyone to earn rewards by hosting and maintaining a node on a specific blockchain.

With all the decentralization that we witness today, we can definitely say that there are major advantages in different directions: cryptocurrency, trust, distributed applications, and even finance.

platforms in Web3, including wallets, dApps, and DEXes, to benefit from infrastructure monetization. 2. Problems targeted 2.1. Managed access to blockchain and fragmention

The main issue is the fact that the interaction itself with the blockchain is centralized through corporations that act as node providers (e.g. Infura). This raises the question of hidden flaws and risks, because in the

Prioritizing dePIN and aggregation, our goal is to offer a unified interface for blockchain access, combining decentralization with advanced functionality. Through the use of MEV strategies, we enable users and B2C

end the chain is as powerful as its weakest link. For example, what if the centralized provider goes rogue and serves you data that is not actually agreed by the chain's consensus? The decisions that blockchain-

to blockchain, in a trusted and decentralized way.

in which every node (mining/staking or non-mining/staking) should be incentivized to help with the access Moreover, the fragmentation of RPC services and various powerful SDKs (such as retryable transactions, account abstraction, MEV etc.) and the centralized infrastructure that offers these functionalities makes the

RPC usage painful. A web3 user is stuck with this decision of choosing either either a descentralized player or poor functionalities from their RPC provider. 2.2. Hard to ramp up a node

use that as an entry point. In practice, ramping up such a node is difficult and often requires constant

from building the actual value-added systems or it raises the costs associated with the extra effort.

One may say that the most simple method to connect dApps to the blockchain is to spin off a local node and tweaking and maintenance (e.g. security updates) which has a high impact because it distracts innovators 2.3. Incentives to nodes

The non-mining nodes have no reason or incentive to share their data for general purposes (e.g. accessing JSON RPC interfaces or peer-to-peer syncing). Moreover, in the majority of blockchains there exists the following bias: too many light clients and not enough full nodes to service them all. This has serious

consequences to the network's state, and one way to mitigate this is to design the right incentives.

We think that every node should be a part of the **Omnia** infrastructure and rewarded accordingly for the

infrastructure in the same way as the non-mining entities would do.

2.4. Monitored blockchain requests The requests to node providers can be tracked and monitored, creating FUD by exploiting the metadata of each pending transaction. This could also give advantages to traders who buy metadata from centralized points of interactions (e.g. wallets, node providers, etc.) or even conclude to monetary attacks such as front runnina.

3. Technical Summary OMNIA infrastructure consists of blockchain nodes and a multi-descentralized layer which act as decentralized API gateways for accessing the blockchain. These roles are not mutually exclusive. However, if one entity is both relayer and node owner then any

request to this specific relayer will be routed to another node owner to preserve security at the infrastructure

Node owners can register their nodes through a simple-to-use web interface provided by **Omnia**. Consequently, these nodes are indexed by the relayers who leverage security controls. The users of Omnia can customize their own subscription plan, depending on their blockchain request rate needs. As a result, users receive access to secure RPC endpoints (either HTTP or WSS) for any of the blockchain networks that we support.

layer.

3.1. How does it work?

3.3. Security

3.4. Roadmap

Q2 2021 - Pioneering Security

Q3 2021 - Innovation in Design

Securing seed funding

Q4 2022 - Introducing KYT Suite

Q1 2023 - Strengthening Compliance

Implementing CDN clustering

Introducing caching mechanism

Enabling node verification protocol

Enabling generic private transactions

2024 - Achieving Omnipotence

RPC aggregator and balancer

DeFi tools to boost DEX volumes

Integrated TX flow security

Unified rich feature interface

Releasing OMNIA Tap Game

Launch of OMNIA AVS

4.1. Monetization

RPC APIs

4.2. Growth Model

higher rewards to the nodes.

Revenue Stream Breakdown:

MEV via arbitrage strategies

Commission based aggregation services

Monetization is done at access of the infrastructure:

SaaS { Node as a Service + RPC API + add-ons }

MEV: backrunning and other arbitrage strategies

2025 - Capturing Market & Revenue

Convert userbase in paying customers

Provider services aggregation via plugins

Rich feature APIs

2FA for transactions

Offering system wide stateful subscriptions

Offering staking and rewards for node providers

Introducing multi-chain private mempools

Q2 2023 - Test Token Launch

Releasing OMNIA Smart Guard from KYT compliance suite

Expanding support to more blockchain networks (Solana)

Fine-tuning load balancer parameters for optimal performance

Releasing OMNIA Smart Spectator from KYT compliance suite

Integrating various payment methods (card, stablecoins, etc.)

Releasing OMNIA Smart Insight from KYT compliance suite

Adding connectors for external node providers

Offering staking and rewards for node providers

Expanding support to more blockchain networks (Near, Aurora, Fantom, Gnosis)

Exploring cutting-edge security solutions

Researching market needs and use cases

Conceptualising the ultimate product

Uncovering the divide between on-chain and off-chain and IP exposure

A node verification protocol will assure that node owners do not act maliciously or against the user's interest. By staking an amount of **OMNIA** tokens, proportional with the blockchain requests that is actively serving, a node provider risks its stake being slashed in case of misbehavior. Therefore, by causing higher self-damage than the potential gain, any attack is economically unfeasible. On top, there are multiple controls that could be enabled in the channel between user and validators, making possible to stop phishing emails, malicious token approval and many others.

BLOCKCHAIN

Launching strategic and private sales Making HTTP endpoints available Providing node management through OMNIA Q1 2022 - Early Adopter Access Expanding support to more blockchain networks (Polygon & Avalanche) Offering DeFi frontrunning protection Enabling private mempool transactions for DeFi Q2 & Q3 2022 - HODL & Building for the Future Introducing WebSockets support Enhancing stability with sticky sessions Expanding support to more blockchain networks (Arbitrum, Optimism) Dynamic subscription parameters validation

Expanding support to more blockchain networks (community requests) NFT Launch Q3 2023 - Optimizing Performance

Various notification policies Customizable security policies

Providing use-case tailored node relaying (i.e. speed tailored, etc)

Expanding support to more blockchain networks (community requests)

- Taping the restaking & AVS operator landsacpe Data integrity checks via consensus Tapping into L2 ZKP ecosystem Multiblock MEV leveraging AI models and big data
- to the infrastructure we are building. 4.2.1. Affiliate and Referral Programs We have seen that affiliate and referral programs have proven to be one of the most successful market

easy steps:

4.2.3. Omnia Community Angels The community angels will be used to further spread information about Omnia on social media, forums and discussion channels.

In order to further consolidate Omnia's position as the preferred RPC provider, we will explore unconventional ways to expand our user base. Omnia's reward system will include incentive plans, encrypted airdrops and gifts for inviting users. As discussed, we put user growth at the top of the priority list because it increases the node's space,

recommend who will acquire subscriptions.

with a double-digit annual compound growth rate (CAGR).

set to become even more mainstream in the upcoming years.

resulting 18.6 billion daily requests for Ethereum nodes only.

However, blockchain is much more than Ethereum which only accounts for ~25%:

5. Market Overview

millions of unique addresses.

Ethereum

25,5%

Doge

3,0%

XRP

2,7%

Bitcoin

41,0%

Source: Etherscan

Ethereum / 18,6 Bln.

Doge / 2,11 Bln.

25,5%

3,0%

\$1 Billion.

infrastructure.

We are aware of the potential risks of such programs-lack of clear roles, representative standards, and excessive behavior or spam. In order to prevent these risks from the Omnia community angels, we will carefully monitor their activities to comply with our values and conduct regular audits to ensure compliance with all rules. There will also be an opportunity to directly report any abuse of angel privileges to us. 4.2.4. Unique Reward System

including added stability and performance. Therefore, in order to maximize the incentive to recommend

Based on our market research, we estimate that the total addressable market (TAM) is at least \$1 Billion,

Even if only 0.71% of the world's population (65 million people) use blockchain technology at the moment

(Source: 8-bit.io, Statista), this is actually an indicator for huge upside potential as blockchain technology is

This trend is confirmed by the recent boom in DeFi and NFT market segments accelerated the adoption rate, and this can easily be observed if we look for example at the Ethereum unique addresses growth chart - 171

Market Distribution

With these facts in mind, we think that is reasonable to assume that 10% of unique addresses are active with a medium usage of 4h/day. For the Ethereum network, this translates to 2.85 millions active wallets per day,

Daily Requests to Nodes

Cardano

3,3%

Other

19,5%

Binance

Polkadot

2,4 Bln. / Cardano

14,2 Bln. Other

2,7 Bln. /

3,3%

19,5%

Binance

Polkadot

3,7%

1,4%

3,7%

1,4%

others to join Omnia, existing node users will be rewarded from the registration of new users they

6. Risks and Mitigation As with any product, its success depends on many external factors.

6.1. Node providers performance

serving performance can be subject to change.

6.2. Node activity fairness

illicit activities or part of any bad lists.

7. OMNIA Token

different market conditions.

5.1. Direct Competition

The performance is not the single thing to be aware of, but also the correctness of each response as a consequence of serving a request. We are making sure that every nodes will behave as intended by running a constant verification protocol to see if the data returned by the nodes reflect the reality agreed by consensus.

reward reduced, according to the percentage of performance decrease.

 15,000 tokens will equate to a 10% fee reduction 30,000 tokens - 15% reduction 50,000 - 25% fee reduction 7.2. Accessing Omnia services

7.1. Fee Reduction for Token Holders

Omnia uses a tier-based fee reduction for token holders:

Each client will acquire a subscription using OMNIA tokens as vouchers. The subscription can be parametrized by a time window and a request quota. For example, one can choose a 1-month subscription with a 1000 RPS quota. RPS quota can also be increased afterward. 7.3. Staking and incentives

Beta testing will be available only to token holders. 7.5. Liquidity Providers earn on the paid subscriptions

Node providers will stake OMNIA tokens in order to join the network. They commit to some specific

7.4. Exclusive Features and "access-first" Functionality to Token Holders

performance metrics and their reward is decreased if conditions are not consistently met.

for OMNIA tokens. rewards in the form of tokens. In addition, airdrops that provide liquidity to the wallet will only be sent in OMNIA tokens. periods, with the deadline of twenty-three october two thousand twenty-four. **Disclaimer**

needed.

connected systems take is based on data, which may be served by actors that act against your best interest. Reading and writing to blockchain shouldn't be centralized or managed, but rather in a decentralized manner,

services they provide. Also, mining/staking nodes can earn extra revenue beyond block/stake rewards by coupling to Omnia

MIXNET

OMNIA SMART CONTRACT

Q4 2021- Unleashing the MVP

Capturing the good MEV and returning it to users (PoC) Q4 2023 - Leap Forward Implementing request batching Expanding support to more blockchain networks (community requests)

Expanding support to more blockchain networks (community requests)

- Token launch and exchange listing Liquidity incentives programs Node dePIN staking
- 4. Business Model OMNIA has the powerful advantage over its competitors that it's the first hero in line to close the gap between MEV extracted by searchers and the users that are not benefiting from it. With unshakable added value that differentiates ourselves from other centralized node providers, users will choose OMNIA's trustworthy services orchestrated by the token, thus giving utility to it.

Beta of AI natural language bot to understand onchain exposure

Ensure RPC data integrity via descentralized consensus

We have built the user acquisition strategy systematically and sustainably to capitalize all the potential of organic growth. We have also designed growth-hack schemes that help igniting the momentum for growth in key moments of the project. We consider the developer community to be essential for our growth as they are the torchbearers for adopting a specific technical solution in the companies/projects they work. This being said, it is clear that our growth strategy includes participating in hackathons and competitions to sponsor projects that use Omnia services.

Due to the way **Omnia** is built, every onboarded node increases the performance of the entire system.

counterparts are complementing each other, as the increase of users who pay for the services will deliver

This section explores how the four main pillars of our user acquisition path - Affiliate Programs, Influencer

penetration strategies in years - both in fulminating DeFi & NFT segments and the broader cryptocurrency ecosystem. In other words, the popularity of the DeFi & BFT fields has surged mainly due to the carefully

Omnia will aim to combine these best practices that have clearly proven to be effective in delivering user

1. We will vet and approach influencers and media channels (such as popular blogs) that have high and

2. The influencers and other selected affiliate partners will promote Omnia on their platforms to spread

4. Use fresh and common method such as community platforms (e.g. zealy, galxe, taskon, etc.) and also

We believe that when executed strategically and attentively, influencer marketing is still the main way to

In addition to directly influencing user growth, Omnia also hopes that influencer marketing can help instill trust in products by connecting our brand with the brands of respected opinion leaders in the community. This is why when choosing our influential partners, choosing like-minded people to work together, coupled

with the highest reputation is crucial. After all, not doing so may have adverse effects and reduce the

Therefore, by linking their personal brand with our personal brand, influential people will become brand

the recommendations of influencers, but also to gain the trust of the target audience we want to reach.

ambassadors and Omnia's long-term valuable assets. This relationship will allow us not only to benefit from

build a well-known and respected brand in the crypto space. We will execute the influencer marketing

strategy by inviting a few people to become Omnia's brand ambassadors-long-term partners raise

growth. After the launch, Omnia's Affiliate and Referral Program will swiftly follow and can be described in 3

planning and implemention of affiliate marketing activities. We learned from that.

active following and an unblemished reputation in the crypto community;

awareness and refer their audience to join;

internal tools such as TG Tap Game.

4.2.2. Influencer Marketing

awareness of our news and plans.

credibility of joining the platform.

3. Affiliates will be compensated based on their performance.

Marketing, Community Angels, and Alternative Reward Systems. These are expected to gradually drive users

Therefore, the larger the pool of nodes gets, the stronger the value offer for the user builds. These

Angels will serve as an extension of our team in the community and assume multiple responsibilities. For example, they will answer Omnia users' questions on the main forum, explain new features or updates on their social media accounts, or manage Omnia's official social media group. As compensation for their time and effort, the community angels will receive OMNIA tokens as a fixed fee.

1,02 Bln. / XRP / 1,97 Bln. 2,7% Bitcoin / 30 Bln. 41,0%

billion daily requests to blockchain nodes, with a double-digit CAGR.

If we extrapolate these numbers with the market distribution we see that at the moment there are around 73

Pricing these requests at what existing node providers are charging we can easily estimate TAM to at least

Our direct competition is represented by the node providers who currently serve the access to blockchain

Bware Labs is a player that approaches this need of accessing the blockchain infrastructure from a

the blockchain community, especially due to November 2020 Ethereum outage root cause.

decentralized point of view, by allowing full node owners to put their infrastructure to work for others.

Infura is an Ethereum node provider that uses a centralized approach that is already viewed as skeptical by

The team behind Omnia Protocol believes that by identifying possible risks, the chances of success can be

increased. We want to address several risks by explaining how we intend to minimize them based on

The node performance can depend upon each party that decides to join the network, therefore request

In this manner, we motivate the nodes to operate at the best of their ability in order to earn the highest rewards. Also, there will be a minimum performance threshold to meet in terms of speed and latency.

To encourage node providers to join the network, we have a real-time reward boosting mechanism so that

node owners are more motivated to onboard if the number of nodes drops for any reason.

To address this risk, we randomly send requests to nodes to check their performance, and if by chance their performance is degraded as compared to what they initially committed to, that specific nodes will have their

Node providers will stake OMNIA tokens in order to join the network. This stake will be slashed if nodes are misbehaving beyond agreed rules/metrics. 6.3. Security of smart contracts Because the smart contracts are transited by most of the funds, there will be audits with multiple entities and also bug bounty programs to assure that all on-chain subcomponents do not perish the whole security of Omnia Protocol. 6.5. Mitigating unlawful activities

We are aware that blockchain has an pseudo-anonymous character and this anonymity is sometimes

abused for illegal activities such as tax evasion, money laundering, and other non-financial crimes. With

respect to these concerns we are fully committed to implement strict measures at the RPC level that act as entry points to blockchain networks by automatically rejecting submission of transactions that are linked to

Each node will be rewarded in OMNIA tokens.

A part of Omnia's features will be limited only to those holding OMNIA tokens. For example, token holders may be able to generate and use much more endpoints, specific features, etc. Contributing the tokens to the DEX liquidity pools will ensure that OMNIA tokens can be traded when

Therefore, we want to reward users who help solve the liquidity problem on the decentralized liquidity provider platform. Of course, this will be distributed in proportion to the amount pooled by the user. 7.6. Referral and Reward Systems use only OMNIA Tokens As an important feature of our growth strategy, recommendations will become another important use case

Layer 1 Users, Wallets, influencers, social media accounts, blogs, or news media will all receive their referral The OMNIA token will be listed on exchanges and also distributed to token holders according to vesting The present document is dedicated for marketing purposes only, meaning it is not intended to be legally

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