Abstract

In an era defined by decentralized innovation, zbyte proudly introduces the world's pioneering decentralized platform, dPlat. Designed to empower developers and streamline decentralized application (dApp) creation, dPlat serves as the industry's "easy button," ushering in a new era of accessibility and simplicity in the blockchain space.

Traditionally, the landscape of dApp development has been hindered by the complexities of deep programming knowledge, custody and wallet management intricacies, and challenges in integrating with existing Web2 infrastructure. Recognizing these barriers, zbyte's dPlat emerges as a groundbreaking solution, offering a comprehensive toolkit that transcends these obstacles.

dPlat's transformative capabilities extend beyond mere facilitation; it acts as a catalyst for a thriving ecosystem of developers. By abstracting the intricate layers of blockchain development, zbyte empowers a broader community of creators to participate in the decentralized revolution. The zbyte platform enables developers by enabling:

1. Simplified dApp creation with a low-code/no-code platform and easy-to-use set of APIs
2. Seamless developer and user onboarding without the complexity of Web3 wallet management
3. Integrations into existing Web2 systems and tools to simplify interfacing with existing data and workflows
4. Multi-chain system to enable scalability, cost management, and flexibility
5. A single token ($DPLAT) to operate throughout the zbyte stack
6. One-stop dApp store to deploy, monetize, and use dApps

Next
Introduction

Last updated 6 months ago

Introduction

The rise of blockchain technology offers a transformative path for reshaping the future of the Internet. Currently dominated by centralized entities, the control over user-generated data has led to a concentration of economic power, eroding trust among users. However, decentralized technologies like blockchain introduce transparency, immutability, and security, offering a paradigm shift by granting ownership of digital content. This shift empowers diverse stakeholders across Internet ecosystems, fostering greater trust in the data-sharing system.

Smart contracts, a product of this decentralized innovation, further enhance trust by enabling automated execution of agreements between parties. Programmed to adhere to pre-agreed terms, smart contracts publish results to the blockchain for universal visibility. As these smart contracts integrate into decentralized applications (dApps), a new era unfolds, promising a future where data is shared, trusted, and leveraged for collaborative multi-party efforts.

Despite advancements in consensus protocols like proof of stake addressing scalability, stability, and security concerns, the real-world adoption of blockchain by developers and enterprises remains minimal. A critical barrier to widespread adoption is the complexity inherent in the dApp development process. The following section delineates the current limitations and obstacles in this space.

Limited Developer Ecosystem

Blockchain is a new area, talent is scarce, and many developers are still going through their learning curve. Ecosystems have not encouraged the proliferation of blockchain resources at scale yet. Reskilling developers from the traditional applications to decentralized applications creates a big barrier to adoption and slows down the speed of execution.

Complex Wallet Management

In the world of Web 2.0, login identities were integrated via APIs to Gmail, LinkedIn, Facebook, etc. whereas in the Web 3.0 realm logins morph into wallet-based identities such as Metamask, TrustWallet, etc. The process to create, store and integrate crypto wallets required to interact with blockchains is labor intensive. Added layers of complexity such as storing and maintaining personal or third-party custody of public and private keys become a big inhibiting factor for adoption.

Lack of Plugins and Integrations

The tools and data which needs to be trusted resides within legacy databases like Oracle, SAP, MS Dynamics, Google Drive, One Drive, Box, and Dropbox. There are limited integrations provided between these centralized infrastructure into a blockchain-ready solution, posing an impediment to decentralization.

Difficult to Choose and Develop on Multiple Protocols

Traditional disciplines, such as project and product management, rely on established guidelines. Unlike these, protocol management lacks a formal structure, with communities often favoring speed over efficiency by choosing a single protocol for development. This results in weak and fragmented protocol management, hindering seamless dApp development and deployment across multiple frameworks. Protocol-specific development confines dApps to the userbase of their foundational protocol, creating barriers for individual developers to gain broad support and access multiple communities. This, in turn, poses challenges to adoption in terms of scale and speed.

No Decentralized dApp Store

dApps require user adoption like any other legacy application or platform. Even after significant education, awareness campaigns, and social communities, it is difficult for users to find, download, and use these dApps due to the absence of a universal, easy-to-use dApp marketplace. Rather than a one-stop-shop, users must seek out dApps one-by-one, creating significant friction to dApp adoption.

The factors above present several limitations and formidable barriers to the mass adoption of dApps. A missing piece in the ecosystem is the layer between raw Layer 1 protocols and existing dApps enabling the transition from Web 2.0 (web and mobile apps) to Web 3.0 (decentralized blockchain enabled apps). This missing piece is a decentralized platform (dPlat), a new category created by zbyte to simplify dApp creation and deployment across the array of various existing protocols.

Previous
Abstract

Next
dPlat: The World's First Decentralized Platform

Last updated 6 months ago

dPlat: The World's First Decentralized Platform

zbyte has created the world’s first decentralized platform (dPlat) which simplifies dApp creation by providing the tools needed to enable a thriving ecosystem for developers. The zbyte dPlat can be considered an easy button for dApp creation, removing the barriers and complexities of deep programming knowledge, custody or wallet management, and Web2 integrations. The key components of zbyte’s dPlat which make dApp creation easy, quick, and seamlessly deployable are explained in the following sections.

By offering an easy-to-use, protocol-agnostic dPlat, zbyte eliminates barriers for developers, fostering the creation of innovative dApps and enriching the blockchain ecosystem. The introduction of the decentralized dApp store not only enhances market dynamics but also catalyzes increased user interest, discovery, engagement, and adoption of new use cases in the Web 3.0 landscape. Additionally, native incentives for ongoing developer contributions to the zbyte platform ensure continuous improvements in technical support for both developers and end users, driving growth within the zbyte ecosystem through enhanced open-source contributions.

Previous
Introduction

Next
Low Code No Code (LCNC) Interface and Easy-To-Use SDK

Last updated 5 months ago

Low Code No Code (LCNC) Interface and Easy-To-Use SDK

zbyte offers a low-code/no-code (LCNC) development environment designed for citizen developers. The interface simplifies the process with drag-and-drop features and customizable templates, eliminating the need for intricate programming languages. For expert developers, zbyte also offers a comprehensive SDK available allowing seamless integration of dPlat-enabled blockchain functionalities into existing applications via Javascript libraries and REST APIs. This inclusive approach accelerates the creation of new applications, making blockchain development accessible to a wider community.

Previous
dPlat: The World's First Decentralized Platform

Next
Non-Custodial Wallet Creation and Management

Last updated 6 months ago

Non-Custodial Wallet Creation and Management

The dPlat enables developers and users to sign up using standard Web 2.0 open identity connectors such as email ID's, Twitter, Facebook, etc., free of seed phrase management. Upon sign up, a wallet is automatically created on the user's behalf and linked to this identity with proper assignment of public and private keys. Once identity and wallet have been associated, users can interact with dApps and manage dPlat Protocol Tokens ($DPLAT) via the zbyte wallet with a few simple clicks.

Previous
Low Code No Code (LCNC) Interface and Easy-To-Use SDK

Next
Integrations with Web2 and Web3 tools

Last updated 6 months ago

Integrations with Web2 and Web3 tools

The dPlat's facilitation of Web2 and Web3 tool integration in decentralized applications is pivotal for a cohesive development ecosystem. By connecting developers with familiar Web2 tools like SQL, MongoDB, and Firestore, the dPlat acknowledges the practicality of leveraging established technologies, easing the transition for developers accustomed to conventional web practices. Simultaneously, supporting decentralized storage solutions such as IPFS aligns with Web3 principles, providing data permanence, fault tolerance, and censorship resistance. This dual integration empowers developers to maximize the strengths of both paradigms within a singular dApp. Moreover, the dPlat's APIs, including REST and CURL, ensure seamless integration of existing tools, fostering an interoperable landscape that encourages innovation and collaboration across traditional and emerging technologies. This approach enhances development efficiency and nurtures an inclusive ecosystem where Web2 and Web3 technologies coexist harmoniously.

Previous
Non-Custodial Wallet Creation and Management

Next
Multichain Support

Last updated 6 months ago

Multichain Support

The zbyte dPlat supports multiple L1 blockchains for ease of deployment, enabling scale and reach of the zbyte-facilitated dApp across many communities. All operations and transactions to facilitate multichain support will be completed using the dPlat Protocol Token ($DPLAT), eliminating the need for logging, monitoring, tracking, and reporting complexities for the developer with multiple cryptocurrencies and multi-protocol management. White Polygon and Avalanche are currently supported, more L1's will be supported and integrated by the development team and community.

Previous
Integrations with Web2 and Web3 tools

Next
zbyte Decentralized dApp Store

Last updated 6 months ago

zbyte Decentralized dApp Store

The dPlat includes a unified dApp store, streamlining deployment and consumption. Deep integration between the dPlat development platform and the dApp store simplifies the deployment process for developers and provides users with a unified hub to discover, evaluate, and access a diverse range of dApps.

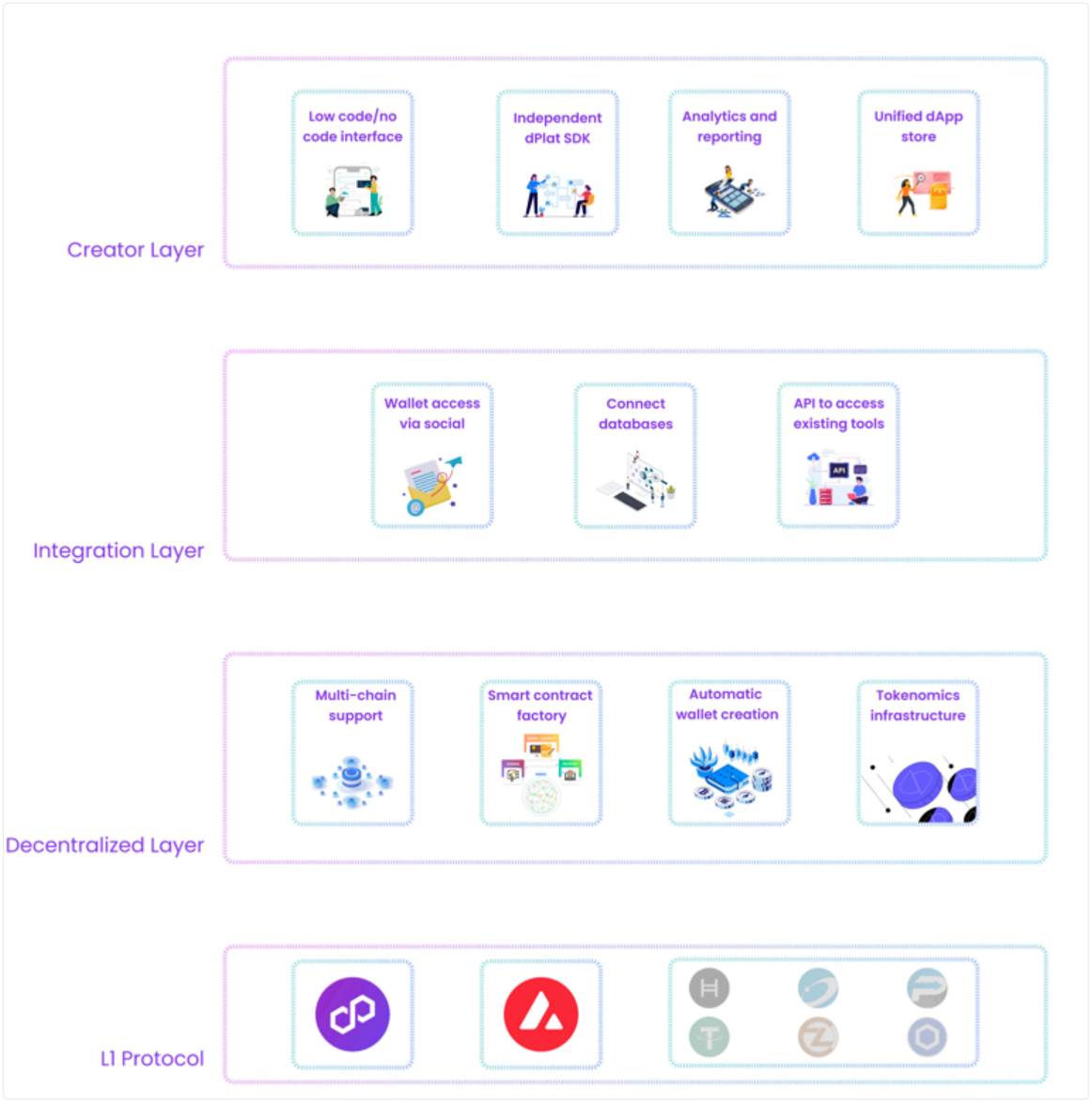
Previous
Multichain Support

Next
zbyte's Platform Architecture

Last updated 6 months ago

zbyte's Platform Architecture

The dPlat can be thought of as an IDE for blockchain development, with features to ease the development process. The dPlat can be divided into four layers: the L1 Protocol, the Decentralized Layer, the Integration Layer, and the Creator Layer.



Previous
zbyte Decentralized dApp Store

Next
L1 Protocol

Last updated 6 months ago

L1 Protocol

The dPlat is built on multiple layer 1 protocols. Currently supporting Polygon and Avalanche, with more to come.

zbyte will partner with various protocols to add them to the multi-chain deployment options. Layer 1 protocols that partner with zbyte will benefit from the broad developer community that builds dApps on the zbyte dPlat. As usage increases, usage of underlying L1 tokens will also increase. There is a symbiotic relationship between zbyte and protocols as zbyte wants the best protocols on its platform for superior dApp development and distribution and protocols require dApp ecosystems (and ultimately end users) to grow and thrive on their chain. zbyte will amplify the FCF (free cash flow) accrued to protocols through gas fees, creating an exponential economic effect within their existing ecosystems.

Previous
zbyte's Platform Architecture

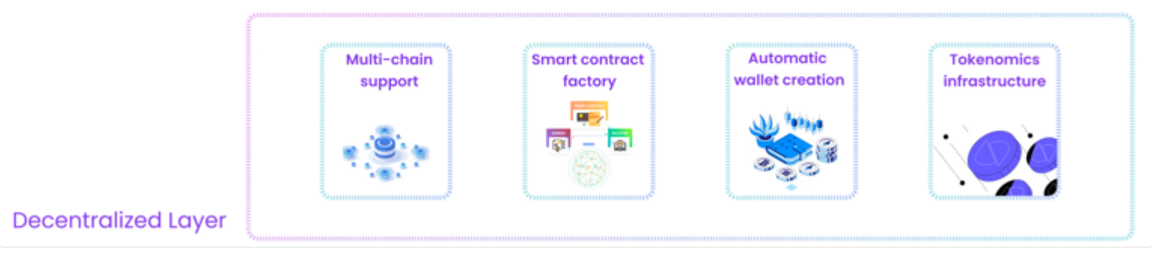
Next
Decentralized Layer

Last updated 6 months ago

Decentralized Layer

The decentralized layer of the zbyte platform provides essential infrastructure for decentralized development and interacts with the blockchain-enabled components.

- Multi-chain support - Managing the end-to-end journey across multiple protocols.
- Smart contract factory - A series of approved smart contracts usable across the multiple blockchains. Also supports custom smart contracts uploaded by developers for private use.
- Automatic wallet creation - A wallet is created for developers or users to interact across blockchains.
- Tokenomics-infrastructure - All the relevant infrastructure required to use only the DPLAT tokens to avoid multicurrency management.



Previous
L1 Protocol

Next
Integration Layer

Last updated 6 months ago

Integration Layer

The Web2 integration layer of the zbyte platform focuses on seamlessly connecting traditional web practices with decentralized development, enabling creation of applications that blend the best of both worlds.

- Wallet access via social - Allow developers and users to login and use dApp's via Google, Microsoft, Github, or Facebook, with other's to be added soon.
- Connect databases - Access data sitting on databases via built-in connectors.
- API to access existing tools - Use REST, CURL, or Authenticated API to access existing tools to work in parallel with the blockchain.

Previous
Decentralized Layer

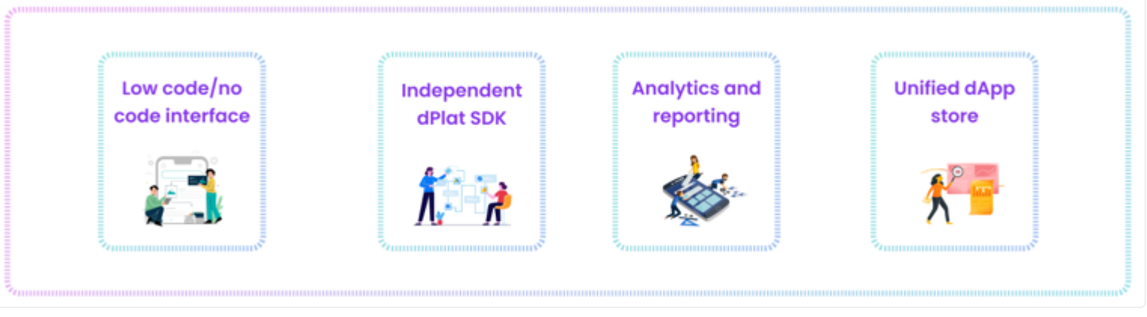
Next
Creator Layer

Last updated 6 months ago

Creator Layer

The creator layer allows developers and users to build dApp's, whether it's building a brand new application or integration blockchain into an existing application.

- Low code/no code interface - Developers can create entire applications with minimal code using a drag-and-drop interface.
- Independent dPlat SDK - The dPlat SDK allows developers to plug dPlat functionality into any existing application, including wallet, smart contracts, DPLAT-only payments, and more.
- Analytics and reporting - Keep track of on-chain events, logs, observability, and pricing.
- Unified dApp store - One stop shop to find all dApps built on dPlat and ones that aren't built on dPlat as well.



Previous
Integration Layer

Next
zbyte dApp Store

Last updated 6 months ago

zbyte dApp Store

The zbyte dApp store is a decentralized, one stop shop for developers to create, publish and monetize their dApps. While decentralized, the dApp store furnishes a clean and modern user interface akin to traditional app stores to ensure a good user experience. Accessed dApps can be operated by paying in $DPLAT, regardless of the blockchain protocol they are built on. Developers will have the ability to set usage fees, earning $DPLAT per transaction to support ongoing development and maintenance of applications.

Developers also have the ability to earn $DPLAT by encouraging their users to stake their tokens against their dApps. Staking rewards associated with a dApp will be divided between the staking user and the developer, ensuring that developers who garner the most support from their users are rewarded appropriately.

Previous
Creator Layer

Next
zbyte Ecosystem

Last updated 6 months ago

zbyte Ecosystem

The zbyte Ecosystem is a series of partners that ensure usage of the dPlat. As time progresses, there will be many entities leveraging dPlat to create dApps for other businesses or consumers. These entities will be incentivized by grants, revenue opportunities, and will garner the full support of the zbyte Foundation to drive adoption and usage.

Previous
zbyte dApp Store

Next
zbyte Foundation

Last updated 6 months ago

zbyte Foundation

zbyte Foundation is the custodian and caretaker of the zbyte dPlat and dApp store. zbyte Foundation's goal is to ensure continued development, maintenance, adoption, and growth of the dPlat ecosystem. The Foundation's core responsibility will be creating and growing the ecosystem of developers along with defining the bylaws for dApp store governance, from app onboarding to deprecation, while preserving levels of decentralization within the ecosystem.

zbyte Foundation will also enable decentralized governance of the zbyte grants program, the dApp store management to ensure dApp integrity, and token management all via implementation of a DAO as referenced in the *zbyte DAO* section of this paper.

Previous
zbyte Ecosystem

Next
Genovatic

Last updated 6 months ago

Genovatic

Genovatic is a team that helps build, upgrade, and maintain the dPlat. As a major part of the ecosystem, Genovatic also ensures that any developers or enterprises that want to build on dPlat have the support they need, whether that is building dApps, infrastructure, or providing operational support. Learn more at www.genovatic.com.

Previous
zbyte Foundation

Next
zblocks Inc.

Last updated 6 months ago

zblocks Inc.

zblocks, a customer engagement marketing platform leveraging dPlat, is tailored for B2C enterprises with indirect sales channels, aiming to enhance customer lifetime value. Working towards selling the zblocks platform to prominent brands, it facilitates meaningful connections with customers, leveraging blockchain's power to gather previously inaccessible zero- and first-party data. Innovative custom modules developed by zblocks abstract the cryptocurrency needed for transactions, simplifying usage and fostering widespread adoption. The integration of the zbyte wallet and the use of $DPLAT for each blockchain-enabled transaction position zblocks as a key driver in establishing dPlat as the preferred platform for future blockchain marketing use cases. Learn more at zblocks.io.

Previous
Genovatic

Next
Tokenomics

Last updated 6 months ago

Tokenomics

DPLAT allocation, unlocks, and treasury

The dPlat Protocol Token (DPLAT) is a fixed-supply (6,000,000,000) utility token and will be required to transact within the zbyte ecosystem.

The official token contract can be found here and the audit reports here.

The token will serve three primary purposes: fees associated with the usage of the dPlat, developer and user engagement including staking rewards, and dApp store fees. The $DPLAT token will be the only token required to transact or interact on the dPlat. The $DPLAT token will be managed by the zbyte Foundation.

Previous
zblocks Inc.

Next
dPlat Fees

Last updated 4 months ago

dPlat Fees

dPlat Fee

As mentioned previously, the dPlat accepts all fees in only the DPLAT token, removing the complexity of multi-currency management. For each transaction that occurs on the dPlat, there is a combination of fees that are charged to the user: the infrastructure fee, dApp fee, and the dPlat fee.

Infrastructure fee

The infrastructure fee is the number of DPLAT needed to pay the underlying L1 costs, decentralized storage costs, etc. These are converted in real-time and at-cost.

dApp fee

The dApp fee represents the royalties disbursed to creators and contributors for each transaction linked to a decentralized application (dApp). This amount is determined by a combination of the fee set by a community contributor and the dApp creator. This dynamic approach ensures that individuals who contribute valuable components and applications consistently accumulate value, aligning the rewards with the merit of their contributions.

dPlat fee

The dPlat fee is the cost associated with ensuring that users do not need to perform multi-currency management, which is currently $0.02 per transaction in fiat. To ensure this amount remains affordable, the fiat value of the DPLAT tokens charged will not change, ensuring that as DPLAT fluctuates in price, only $0.02 worth of DPLAT are needed for this operation. The dPlat fee is sent to the zbyte Treasury, ensuring that the DAO continues to have the necessary funds to sustainably operate, maintain, and improve the dPlat.

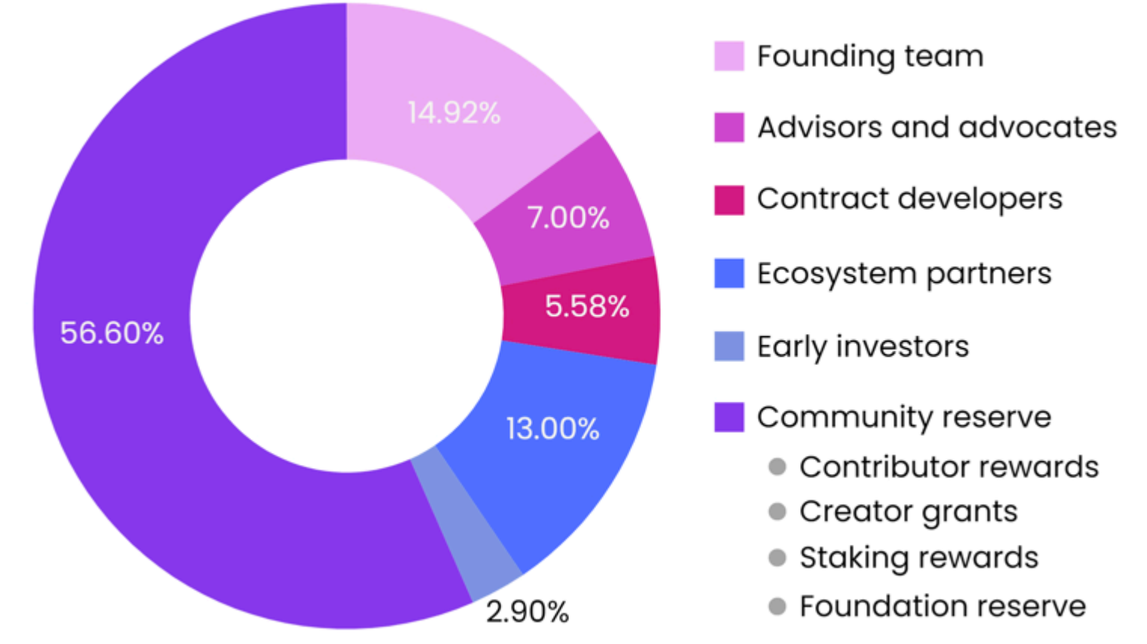
Previous
Tokenomics

Next
Token Allocation

Last updated 4 months ago

Token Allocation

While the DPLAT token is fixed in supply, there are deflationary forces impacting it. No new $DPLAT tokens are planned to be created or minted beyond the initial supply of 6,000,000,000 (6B) tokens and as usage of the dPlat increases, the number of tokens in circulation decreases since dPlat fees return to the Foundation treasury. The allocations of these tokens and their distribution are depicted in the figure below. Unused allocations will either be locked in the DAO treasury or will follow an unlock schedule to be later relocked upon allocation.



Previous
dPlat Fees

Next
Token Vesting Schedule

Last updated 4 months ago

Token Vesting Schedule

The commitment from the zbyte ecosystem to a long-term healthy project with continued value creation for developers and users is reflected in the token vesting schedule. zbyte has partnered with Hedgey to manage various unlocks and vesting.

POOL	VEST LENGTH	DESCRIPTION
Founding team	60 MONTHS	1/8TH OF TOKENS VEST MONTHLY FOR 1 YEAR, REMAINING TOKENS VEST OVER 4 SUBSEQUENT YEARS FOR A TOTAL OF 5 YEAR VESTING
Advisors and advocates	24 MONTHS	1 YEAR CLIFF WITH REMAINING VESTING MONTHLY
Contract developers	48 MONTHS	1 YEAR CLIFF WITH REMAINING VESTING MONTHLY
Ecosystem partners	PER CONTRACT	PER CONTRACT
Pre-seed round	12 MONTHS	6 MONTH CLIFF WITH REMAINING VESTING MONTHLY

Previous
Token Allocation

Next
Staking

Last updated 6 months ago

Staking

Within the dynamic zbyte ecosystem, participants have the opportunity to engage in staking, a process where they commit their assets to endorse decentralized applications (dApps) crafted on the dPlat and available on the dApp store. The rewards from staking are thoughtfully distributed between the dApp developer and the users, forming a symbiotic relationship. This means that developers are not only encouraged but directly incentivized to design and introduce applications that users genuinely find valuable and engaging.

This collaborative model fosters a thriving environment where the interests of developers and users align, creating a symbiosis that drives the development of high-quality, user-centric dApps. As users contribute to the staking process, they actively play a role in the success of the applications they appreciate. This intricate interplay of incentives enhances the overall vibrancy of the ecosystem, ensuring that the rewards generated from staking are shared among those who actively contribute to and appreciate the burgeoning decentralized application landscape within the zbyte ecosystem.

Previous
Token Vesting Schedule

Next
Governance

Last updated 6 months ago

Governance

There will be specially minted governance tokens (ZGOV) to address decentralized governance of the dPlat, dApp store, treasury usage, and the $DPLAT tokenomics. The ZGOV prevents a "pay-to-play" model where those with the most purchasing power hold more of the control. Instead, governance will be weighted by ownership range with a focus towards opensource contributors and dApp developers to ensure all stakeholders have a voice. Governance tokens will be assigned based on DPLAT ownership as per the table below. There will be multipliers assigned to opensource contributors (20x) and dApp creators (2x).

DPLAT TOKEN OWNERSHIP	ZGOV ASSIGNMENT
50,000-249,999	1
250,000-499,999	10
500,000-999,999	25
1,000,000-19,999,999	40
20,000,000-69,999,999	70
70,000,000+	400

A single token will correspond to one vote. Governance can be broken down into three sections:

- dPlat governance (smart contracts, tokenomics)
- zbyte Treasury governance (liquidation of funds, grants)
- dApp store bylaws (ethical and legal limitations on dApp types, removing dApps from the dApp store)

The initial few months of the DAO will operate on a temporary governance token. These tokens will be assigned manually to token holders. A smart contract automated ZGOV allocation will go live in 2024.

Previous
Staking

Next
DAO v1

Last updated 6 months ago

DAO v1

During its initial phase, the DAO will employ a provisional governance token, distributed manually to token holders based on their holdings. The Aragon DAO tool will facilitate the operations of this phase. It is noteworthy that transferring tokens out of wallets will not incur penalties, and holders will retain their voting rights until the subsequent version of the DAO is launched. DAO tokens will be distributed to holders at the end of each month and are trackable on-chain.

Throughout this initial version, the community reserve will be securely locked and accessible solely through proposals. This measure ensures the reserve's integrity while the automation and finalization of version 2 are in progress.

Previous
Governance

Next
DAO v2

Last updated 6 months ago

DAO v2

The forthcoming iteration of the DAO, scheduled for release in 2024, will introduce an automated system for the allocation and removal of governance tokens tied to holdings. This process will be governed by smart contracts, ensuring transparency and auditability through on-chain mechanisms.

Additionally, the new version will incorporate a multiplier for contributors and creators, contingent upon role registration with the zbyte Foundation and the validation of contributions to the opensource and dApp store.

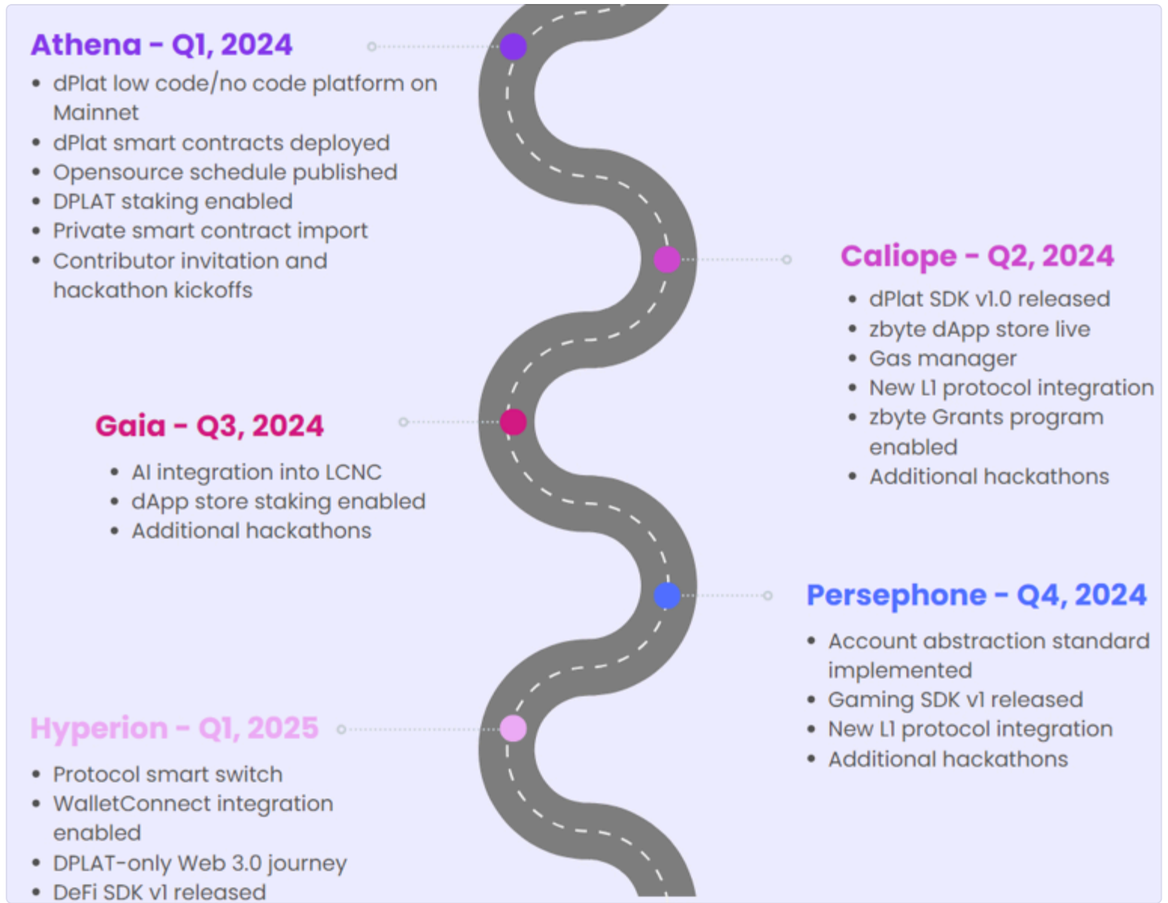
Previous
DAO v1

Next
Roadmap

Last updated 6 months ago

Roadmap

A high level roadmap is shown below. More details will be included as each of the releases approaches. This roadmap is subject to change based on contributions and prioritizations by the community of developers within the zbyte ecosystem.



Previous
DAO v2

Next
Disclaimer

Last updated 6 months ago

Disclaimer

PLEASE READ THE ENTIRETY OF THIS "DISCLAIMER" SECTION CAREFULLY. NOTHING HEREIN CONSTITUTES LEGAL, FINANCIAL, BUSINESS OR TAX ADVICE AND YOU SHOULD CONSULT YOUR OWN LEGAL, FINANCIAL, TAX OR OTHER PROFESSIONAL ADVISOR(S) BEFORE ENGAGING IN ANY ACTIVITY IN CONNECTION HEREWITH.

This whitepaper is intended for general informational purposes only and does not constitute a prospectus, an offer document, an offer of securities, a solicitation for investment, or any offer to sell any product, item or asset (whether digital or otherwise). The information herein may not be exhaustive and does not imply any element of a contractual relationship. There is no assurance as to the accuracy or completeness of such information and no representation, warranty or undertaking is or purported to be provided as to the accuracy or completeness of such information. Circumstances may change and that this whitepaper may become outdated as a result.

Previous
Roadmap

Last updated 6 months ago