

BLACKCAT CHAIN WHITEPAPER V1.1

By BlackCat Technology Co.,Ltd

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1.Executive Summary

The combination of blockchain technology and cryptography has opened endless opportunities and use cases for businesses in the digital age. The tokenization of asset classes, removal of intermediaries, decentralization, provision of liquidity to otherwise illiquid assets, immutability, traceability, and open-source transparency are some of the core aspects that blockchain and Decentralized Finance (DeFi) can offer. Unfortunately, for entrepreneurs, small and medium-sized businesses (SMBs), and startups, there are large barriers to entry to the blockchain ecosystem, preventing them from being able to utilize the blockchain technology.

This Whitepaper aims to present a comprehensive framework of Blackcat cutting-edge approach towards creating a blockchain and a DeFi-based infrastructure. It also seeks to demonstrate the current status and future plans of Blackcat ecosystem, discuss its associated products and solutions, and introduce the BCAT-token of Blackcat ecosystem that enables the seamless exchange of value between peers without the need for a third party intermediary. This document aims to inform readers about how Blackcat is using its teams' expertise to create an infrastructure that seamlessly, securely, and affordably allows for SMBs and large enterprises to innovate for practical and sustainable business values.

Blackcat Token (BCAT) is a utility token. are not shares or securities of any type, and do not entitle the holders to any ownership or other interest in Blackcat Technology Co., Ltd. companies or any of its affiliates and subsidiaries. This whitepaper does not constitute a prospectus or offer documents of any sort, and does not constitute an offer of securities or a solicitation for investments in securities in any jurisdiction.



2. Black Chain V1.1 Summary

Blackcat Chain Whitepaper V1.1 is an updated version of blackcat Chain that paves a new future for the network and ecosystem itself. This version maintains the core concept of blackcat Chain to offer a ready-to-use infrastructure for users within the network and informs readers about essential changes and developments of blackcat Chain in 2022-2023

To maximize the value and usage of BCAT Token, new desirable utilities are introduced in this version. In addition to gas fee and fee credits on Blackcat Exchange, BCAT holders can now earn rewards as cryptocurrencies and other lifestyle privileges. Partners and merchants may choose to use BCAT to redeem for their services and products for marketing and other purposes. All utilities has been fully adopted as per Whitepaper V1.1

Lastly, Blackcat Chain development team is dedicatedly keeping up to expand its ecosystem and improving the products around the chain, as reflected in the updated roadmap for new projects development.

In Blackcat Chain, we have added Blackcat Chain Roadmap 2022, which mainly focus on expanding ecosystem, while improving and strengthening technological infrastructure of Blackcat Chain to ensure sustainability and scalability to support more transactions than ever were.

We hope these changes in Blackcat Chain will help accelerate mass adoption and bring in real business use-cases, while incentivizing all stakeholders in the ecosystem to spur innovations, democratizing opportunities and the world's internet of value.

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3.Blackcat Chain

3.1 Problem Statement

Blackcat Chain steps in to alleviate many existing obstacles in the current blockchain ecosystem on a national and regional scale. As of date,we lacks its own infrastructure for various sectors, these infrastructure providers charge extremely high gas fees: one of the key barriers of entry experienced by retails and businesses. Another barrier that poses a challenge to bring blockchain to a mass adoption level is inadequate information dissemination, limiting blockchain adoptions only to businesses with technological capability.

Blackcat Chain is a blockchain infrastructure developed by Blackcat Technology Co., Ltd. It aims to be a ready-to-use infrastructure solution for various partners who can also operate the node and be validators, ensuring lower gas fees (transaction fees) and rapid transactions while keeping the security and performance uncompromised and easy to integrate with other projects on Blackcat Chain.

3.2 Vision

Our vision is to democratize economic opportunities and create an unprecedented level of financial access and security for everyone. Assets can be placed on the spectrum of liquidity, making the transfer of value frictionless, secure, and more efficient without the need for a third party. This blockchain infrastructure will allow for rapid financial transactions while unblocking real-life impactful use cases for individuals and businesses.

3.3 Mission

Blackcat Chain is on a mission to bring blockchain to a mass adoption level through proper information dissemination, affordable gas fees, and integration to real business use cases to catalyze innovation and create a holistic ecosystem surrounding Blackcat Chain.

3.4 Value Proposition

Blackcat Chain is an open-source blockchain created for mass adoption of blockchain technology for developers, small and medium-sized businesses, startups, and entry-level users to create, distribute, and manage blockchain solutions, such as decentralized applications (dApps), utility tokens, and Non-Fungible Tokens (NFTs).It supports the collaborative development of software to expand the possibilities of blockchain technology, helping individuals and organizations harness the power of blockchain and cryptography to address real-world problems by allowing projects to deploy their respective side chains linked to Blackcat Chain.

Blackcat Chain also supports the deployment and issuance of DeFi products, with use cases ranging from lending protocols, decentralized swapping platforms (DEX), oracles, data tokens, and yield farming applications.

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Intended to lay the foundation for a scalable and flexible blockchain ecosystem, Blackcat Chain is capable of handling high-volume transaction environments at minimal cost while ensuring the sustainability and transparency of the network.

The value proposition of Blackcat Chain include but is not limited to:

- Resolving real-world challenges by collaboration with business and corporations around the world
- Allowing corporate partners to deploy Black Chain infrastructure to achieve decentralization;
- Tokenizing of fungible and non-fungible assets;
- Adding liquidity to otherwise illiquid assets through tokenization and offering a trading marketplace;
- Offering affordable blockchain infrastructure to spur innovation and create an **ecosystem around Blackcat Chain;**
- Simplifying the process for on-chain deployment and its future interoperability;
- Maintaining a balance between permissioned and permissionless networks; and
- Empowering the enterprise ecosystem by leveraging Blackcat blockchain knowledge

3.5 Technical Description

Blackcat Chain is building to be an infrastructure for the world's internet of value. Many decentralized applications (dApps) and DeFi projects will be launched and deployed on top of this decentralized network with minimal transaction fees and rapid speed block confirmation time.

Similar to applications interacting with databases today, the dApps will communicate and execute logic against the Binance Smart Chain on Blackcat Chain. Blackcat Chain network consists of a peer-to-peer decentralized network of nodes. These nodes maintain a copy of the data stored (i.e. distributed ledger) and run a virtual machine to support arbitrary computation against the ledger while maintaining consensus. Smart contracts are the mechanism that allows for this complicated computation on the network, similar to stored procedures on traditional databases

Proof of Authority

Bitcoin pioneered the Proof-of-Work (PoW) consensus in 2009 and has since become the foundation for decentralized digital value transfers and launched the cryptocurrency industry. However, as Bitcoin and the cryptocurrency industry matured, its PoW consensus came under criticism due to its requirements in energy usage and hence, environmental impact.

Proof-of-Stake (PoS), therefore, was conceptualized to solve this problem. This alternative to PoW has, since its introduction in 2012 with PeerCoin, saw mass adoption in projects such as the upgrade to the current Ethereum protocol in Ethereum 2.0. Utilising the PoS consensus concept and the transparency of identity of validators and their reputation, PoS consensus can be augmented to become Proof-of-Authority.

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Proof-of-Authority (PoA) provides high accessibility in the form of low fees and high transaction throughput. PoA's trust in reputation relies on pre-determined entities as validators³

Adopting the PoA consensus mechanism will enable Blackcat Chain to create an ecosystem where users, developers, validators, node owners, token holders, and organizations will benefit from the blockchain network, ensuring high throughput, maximum performance, and cost-effectiveness.

Blackcat Chain will initially launch with the PoA consensus algorithm for maintaining the consensus on the distributed ledger technology. Following that, the next step is to move from a PoA to a Proof of Staked Authority (PoSA) and finally, to the Proof of Stake (PoS) algorithm.

Nodes

Nodes are divided into Full Node (non-signing nodes), Validator Node, and bootnode. Full nodes maintain a copy of the distributed ledger, which used to submit or look up transactions from the network. Decentralized applications interact with these Full Nodes using Ethereum's web3 JavaScript object to execute and store important transactions within their application. A wallet is usually backed by a Full node on the public network. Validator Nodes process, validate, and commit transactions to the underlying distributed database (i.e. ledger) through a consensus process. Bootnodes provide dynamic discoverability of the nodes in the network.

Description of Nodes

Full Node

Full nodes are reachable from outside the virtual network so that applications can use these nodes to submit transactions or execute smart contracts within the blockchain networks. All nodes have the latest stable Go Ethereum (Geth) client software and are configured to maintain a complete copy of the distributed ledger. We have explicitly separated the nodes that accept transactions from the nodes that sign or validate transactions to ensure that the two actions are not competing for the same resources.

Validator Node

Each Blackcat Chain Network member is given a different availability zone of virtual machine.

Each validator node communicates with other validator nodes to come to consensus on the state of the underlying distributed ledger. There is no need for your application to be aware of or communicate with these nodes - these nodes are isolated from inbound public internet traffic, adding a secondary level of protection. Outbound traffic is allowed, but not to the Ethereum discovery port. The individual nodes are still connected and communicating with one another via Ethereum's discovery protocol.

All nodes have forked the latest stable Go Ethereum (Geth) client software and are configured to be validator nodes. All nodes use the Ethereum account (Ethereum address

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and key pair) that is protected by the Ethereum account password. The public/private key pair generated from the Ethereum passphrase provided is stored on each of the validator nodes.

Bootnode

The group of default VMs is configured as a bootnode to support dynamic discoverability of the nodes in Blackcat Chain network to allow every node member to communicate with each other seamlessly.

Validators

A validator is an entity responsible for verifying transactions on a blockchain. Blackcat Chain relies on a set of validators that are responsible for committing new blocks in the blockchain. They are required to show their identity and trust in the network by showing it as a Proof of Authority. Once they have staked their identity (i.e. voluntarily disclosed that they are in exchange for the right to validate the blocks), these validators participate in the consensus protocol by signing blocks that contain cryptographic signatures using each validator's private key.

Once Black Chain has fully adopted the PoS consensus, Blackcat Technology Co., Ltd. will join as a node in order to develop Blackcat Chain. In the meantime, Blackcat Technology Co., Ltd may join as a node at anytime, in order to ensure the system flows smoothly, or in the case of problems with node validators.

Validator Quorum

In the genesis stage, a few trusted nodes will run as the initial validators. Blackcat Chain produces a block every 5 seconds, and the epoch period is 300 blocks. Then, the current set of validators will check and update the validator set for the next epoch in 1500 seconds (25 minutes).

Support in Blackcat Chain

Ethereum Smart Contract Support

Interoperability holds an essential role in the usability of a blockchain network. The Ethereum blockchain network is one of the largest networks that hosts tokens, dApps, and Smart Contracts. Blackcat Chain realizes this and has established an infrastructure whereby the blockchain would support Ethereum-based Smart Contracts to coincide with the larger blockchain ecosystem.

Javascript Libraries

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Javascript Libraries enable developers to interact with Blackcat blockchain network and enable the smart contract to be operational. Blackcat Chain supports multiple javascript libraries that include:

- Support Web3.js
- Ether.js (optional)
- Truffle.js library

Web 3 Wallet Support

Blackcat Chain infrastructure supports direct integration with decentralized wallets such as MetaMask, etc. As a result, only the user holds the keys to their crypto wallet. This means that no other party has access to, or are able to send, receive, or store a user's cryptocurrency, thereby mitigating some security risks associated with hosted wallets.

3.6 Blackcat Chain Ecosystem and Use Cases

Blackcat Chain strives to create a complete ecosystem for developers, small and medium-sized businesses, startups, and entry-level users, aiming to harness the power of blockchain.

As part of the initial ecosystem-building process, Blackcat has tapped its initial clients for its infra-structure usage. In the coming weeks and months, Blackcat will identify key industry-related corporate, organizations, and businesses with a significant global footprint or startups who are just launching so that the platform can scale seamlessly, where existing business models can be tokenized. The marketing team will also identify the participants who will most quickly boost the value of the token.

Blackcat is already in late-stage discussions with key representatives that are awaiting our final rollout. Blackcat will regularly provide updates on its extensive works with corporate organizations and entrepreneurs in integrating with the platform scaling from local to global scales.

4.Blackcat Token

4.1 Token Utility

Blackcat Token (BCAT) will be a "native coin" on Blackcat Chain (similar to ETH in the Ethereum network) However, it can be used for other utilities as outlined below

- **Gas Fee:** Gas is a unit of measurement representing the amount of work done by nodes to validate and secure transactions on Blackcat Chain. To interact with Blackcat Chain, users pay gas fees in the form of BCAT. The amount of gas paid depends on the complexity and size of interaction within Blackcat Chain. Gas is used in:

1. Asset transfer as a fee
2. Creation and interaction with smart contracts or decentralized application (dApps)

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Smart Contracts are used to complete the tasks on Blackcat Chain. Every step in a Smart Contract is a transaction, or a complex calculation that has associated costs, measurable in "gas", where BCAT is used as the mean for payment.

- **Fee Credits:** Since BCAT has been listed on Blackcat Exchange, one of the core utilities that differentiate BCAT from the rest of the native coins is the convertibility to fee credits on Blackcat Exchange, details of which are routinely announced on the official website page.

- **Lock & Drop:** BCAT's holders can enjoy rewards through Blackcat wallet, a user-friendly cryptocurrency wallet developed by BlackCat Technology Co.,Ltd. Lock & Drop feature allows BCAT' holders to lock their BCAT Token within a certain period of time and earn various digital assets,as well as other lifestyle rewards from partners.

- **Redemptions for partners' services and products:** Our recognized partners or general merchants may desire to use BCAT to redeem for their products and services. Although it is not intentionally for BCAT to be the means of payment, partners or the general public may select to use BACT for that purpose themselves. Users can check updated news on partners through our official website :<https://blackcattokentechnology.com/> or our social media: <https://www.facebook.com/Blackcattoken/> and https://twitter.com/BlackCat_Token ,or our partner's communication channels.

4.2 Tokenomics

Tokenomic Overview

- Token Name: Blackcat Token
- Token Symbol: BCAT
- Total supply= 1,000,000,000 BCAT
- Initial circulating supply= 200,000,000 BCAT

The economic system of Blackcat Chain is designed to provide a long term self-sustaining economy, complete with participant incentives, and aimed to maintain the integrity of the network. Blackcat Token will be used as the unit of exchange to quantify and pay the costs of the consumed computational resources on Blackcat Chain. Blackcat Token will provide economic incentives such as validators rewards to encourage participants to contribute and maintain the ecosystem on Blackcat Chain. These rewards will stem from gas fees paid during transactions on Blackcat Chain.

Utilizing functions of Blackcat Chain will incur computational resource costs that will consume Blackcat Token as a processing fee. A portion of the sunk costs of computational resources accumulated from performing various functions on Blackcat Chain such as validating blocks for transactions will then be provided to the participants of Blackcat Chain, namely validators. This closed ecosystem will provide incentives for all parties involved both for the users of Blackcat Chain to engage on the network and the validators who contribute through verifying transactions and adding confirmed verifications to the distributed ledger. This makes Blackcat Token an integral and indispensable part of Blackcat Chain, as without it, there would be no

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economic incentives to justify the expenditure of resources within the ecosystem. These rewards are calculated per block and are distributed across the active validators. This provides the network with supply predictability, which supports long term economic stability and security.

Roadmap

2022

- build platform To exchange BCAT and other coins : Status developing
- Build a platform to support global startup and use BCAT tokens to trade on the platform.

: Status developing

2022 Q3-4

- Launch Blackcat Application KVC
- Launch Blackcat Application on Mobile
- Launch Lock BCAT & Get BONUS 2
- Open Blackcat Chain SDK/ A Pis
- Launch Blackcat Chain
- Implement Data Oracle

: Status study and analyze project

2023 Q1-Q2

- Develop blockchain technology for faster transactions for exchanges to build on other transactions.
- Make a Simulation Games open world and Action First Person Shooters Games: FPS
- Establish an organization to support business start-up

2023 Q3-4

- Launch NFT Creator Studio
- Launch NFT Easy Payment
- Launch Blackcat Launchpad
- Launch BLC Scan

Long term project

The development of online trading technology in all types

To be a medium for trading from the community level to the international level in order to solve the problem of expensive products Fix overpriced

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10.Disclaimer

This document is intended only for business introduction and does not include any investment views, suggestions, or solicitations. It also does not contain request for sale or any form of securities provision. In addition, we would like to inform you that we do not have any form of agreement or acceptance.

All investors involved in Black cat project investments are considered to understand and accept business risks, and assume that the investor is responsible for all future consequences. It is clear that Black Cat Technology are not liable for the reliability of the information provided in this White Paper, the resulting misleading and inaccurate information, and any loss they may cause.

We inform you that Black Cat Technology is not responsible for any direct or indirect loss of participation in this project.

The disclaimer for this business includes the following.

(In addition to the following, we would like to remind you that there are other risks.)

- (1) The contents of this White Paper may be amended or changed without prior notice.
- (2) Token values cannot be guaranteed to rise, and may fall in some circumstances.
- (3) Tokens are neither ownership nor control. This project shall not confer authority on any single individual or to any organization with relevant business and application plans.
- (4) Tokens can be risky in many formats, such as lost or stolen.
- (5) The value of the token may decrease due to a competitive platform, coin, or other alternative services.
- (6) The number of team members introduced in this White Paper is subject to change.
- (7) Due to depletion of funds, technical barriers, changes in market trends, and other factors affecting development and operations, development may be delayed or development goals may not be reached.
- (8) We do not guarantee the performance of the BCAT platform, its stability or fast disaster recovery.
- (9) The normal operation of the service may be disrupted by hacking, natural disasters, and other force majeure, resulting in damage.
- (10) Unlike accounts of banks and other financial institutions, blockchain Internet lockers through BCAT Market App accounts or subsequent BCAT model extension service accounts do not have insurance to cover losses of any form.
- (11) There is currently a risk of related judicial clampdowns in the overall token market. Digital currencies (Bitcoin, Ethereum, Altcoin...) are already subject to supervision by all countries around the world, so if regulators intervene or apply pressure, the business itself and its currency may be affected.

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(12) BCAT platforms and tokens are technologies that have not been fully tested and verified, and may have unpredictable risks other than those presented in this paper. If you are not familiar with the direction of development of this project and possible risks associated with virtual currency, we do not recommend you to participate in the token pre-sales. Digital currency has a greater risk and investors should be cautious about participating in the investment. Participants' crowdfunding digital assets will not be refunded if they participate in the token pre-sales. This project has the potential for business development as well as development failures due to legality, market demand, technicality or uncontrollable causes.

11.Official Website and Community



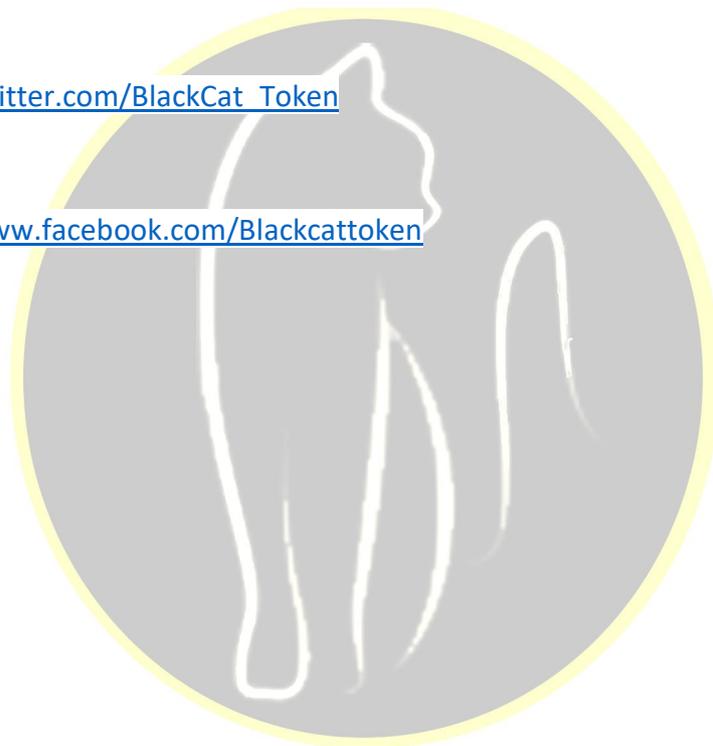
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