

BVT Whitepaper

BV Token · The BV ecosystem value loop on BNB Chain

Draft · under review

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Abstract

BVT (BV Token) is the BEP-20 token of the BV ecosystem on BNB Chain. 49% of the BV ecosystem's net profit is committed as a revenue right: it enters an on-chain buyback vault in USDT, buys BVT on PancakeSwap v3 every day, and is distributed by fixed rules to Genesis Nodes, stakers, the consumer reward pool and the protocol treasury, with part of it burned.

All funds are held only by smart contracts or Safe multisigs; the DApp backend never holds user assets. Key ratios are hard-coded constants; adjustable parameters can only change through the multisig and a 48-hour Timelock. This paper describes rules and on-chain facts only and is not a promise of returns or investment advice.

1. The BV ecosystem and BVT

BV is a membership and consumption ecosystem: members shopping at BV / BV Mall generate real sales and PV. BVT links these business results to on-chain rights:

- Revenue right: 49% of BV net profit goes on chain — Nodes 30% + BVT 19% in year 1, Nodes 20% + BVT 29% from year 2.
- Identity: every wallet binds one BV member code; node rewards follow the member's activity. Contracts and public data store only a salted hash, never the code itself.
- Consumption: members earn BVT consumer rewards by PV, and BVT can pay BV Mall orders.

The BV system only supplies identity and consumption data (binding confirmation, KYC and tier, daily activity, order PV). It receives no token holdings or reward data, and node or BVT rewards never count toward BV PV or bonuses.

2. The BVT token

Name Blue Vitae Token, symbol BVT, total supply 1,000,000,000, minted once at deployment to the allocation contracts — there is no mint function. No transfer tax, no blacklist, no pause, no owner. Protocol burns go through the buyback vault, Mall payments and node mining, and never take total supply below 500,000,000 (the protocol floor).

Allocation	Amount	Share	Held by / release
Consumer / repeat-purchase rewards	250,000,000	25%	ConsumerRewards
Long-term staking	150,000,000	15%	veBVT
Ecosystem treasury	130,000,000	13%	Treasury Safe
Genesis Node mining	120,000,000	12%	NodeMining
Merchant / ecosystem incentives	100,000,000	10%	Vesting, 60-month linear
Community growth	70,000,000	7%	Vesting, 48-month linear
Team	70,000,000	7%	Vesting, 12-month cliff + 36 months, milestone-gated
Initial liquidity	60,000,000	6%	Liquidity Safe
Strategic investors	50,000,000	5%	Vesting, 6-month cliff + 24 months, milestone-gated

3. The value loop: 49% revenue right and daily buybacks

- Funding: BV prepays 5% of monthly net sales (USDT) into the buyback vault and tops up to 49% of audited profit each quarter (prepayments above that are not clawed back). Monthly sales and quarterly profit are attested on chain by a third party.
- Buyback: the Keeper runs once a day; the daily budget is the month's budget ÷ days in the month, split into several trades if needed. Each trade must clear at $\leq 102\%$ of the 30-minute PancakeSwap v3 TWAP, otherwise it is postponed.
- Node share: bought BVT goes to node rewards, split by hash power × activity coefficient among active nodes; the part attributable to unsold nodes is burned.
- BVT share: dynamic burn $30\% \times \text{room}$; consumer pool top-up $30\% + 30\% \times (1 - \text{room})$; veBVT stakers 30%; treasury 10% — where $\text{room} = (\text{supply} - 500\text{M}) \div 500\text{M}$, so burns shrink as supply nears the floor.
- Node sale proceeds are split on receipt: protocol-owned liquidity 35% / buyback vault 25% (spread over 18 months) / floor vault 15% / operations 25%.

4. Genesis Nodes

Genesis Nodes are BEP-721 NFTs capped at 4,900 — five periods of 980, with prices and hash power fixed in the contract. A period opens only after the previous one sells out and at least one node distribution has happened. Each BV code may buy up to 3 per period; period 1 is open to verified, active SVIP members and partners.

Period	Price (USDT)	Hash power	Supply
1	3,999	2.0	980
2	4,199	1.7	980
3	4,399	1.4	980
4	4,599	1.2	980
5	4,799	1.0	980

- Activation: a node is active from mint. The buyer pays only the USDT price; no BVT stake is required. Total hash power of all 4,900 nodes is 7,154 ($980 \times (2.0 + 1.7 + 1.4 + 1.2 + 1.0)$).
- Transfers are locked until period 5 sells out; afterwards activity follows the new holder's BV code.
- Floor: 365 days after minting, a holder may sell the node to the floor vault for 50% of its purchase price; the node is burned, while budget lasts.

5. Node rewards and node mining

Activity coefficient: bound and BV-active 1.0; bound but inactive 0.5; unbound 0 (node paused, resumes the day after binding). Activity is taken from BV's daily UTC+8 00:00 snapshot.

- Node rewards (49% right): reward per effective hash = the day's node buyback $\div \Sigma$ (active node hash $\times$ coefficient); what inactive nodes forgo goes to active nodes the same day. Claim instantly 100%, lock 90 days 110% or 180 days 120% — the bonus is paid by the consumer pool and pauses when the pool is below its waterline.
- Node mining: a 120M BVT pool emitted linearly per day over five years (30% / 25% / 20% / 15% / 10%), multiplied by the stabilizer k . A node's share = daily emission $\times$ hash $\div 7,154 \times$ coefficient; unsold or inactive shares stay in the pool. Mined BVT vests linearly over 180 days and can move to veBVT (≥ 180 days, no penalty), pay Mall orders, or be claimed early with 30% burned.

6. Consumer rewards

A 250M BVT pool settles monthly: reward BVT = net PV $\div 100 \times$ rewardUSD $\times k$ $\div$ monthly TWAP. rewardUSD is 5 USDT, scaled down proportionally when the pool is below its 40% waterline, never under 2 USDT. Net PV = order PV – refunded PV.

Each month's list is published as a Merkle root with public leaves and proofs; members claim themselves — instantly 70%, lock 90 days 100% or 180 days 120%, with the remainder staying in the pool. Every epoch has a contract-enforced cap; roots above it are rejected.

7. veBVT staking

Lock Flexible / 90 / 180 / 365 days for weights 1.0 / 1.2 / 1.5 / 2.0; veBVT is non-transferable. Rewards come from the 150M staking pool released yearly (15% / 14% / 13% / 12% / 11% / 10% / 9%, the remaining 16% from year 8) $\times k$, plus 30% of the BVT buyback share. Ending a fixed lock early costs 10%–30% (linear in remaining time), half burned and half returned to the staking pool.

8. BV Mall payments

BV Mall orders can be paid in BVT and/or USDT, with BVT capped at 30% of the order (enforced by a backend-signed order quote). Of the BVT received, 50% $\times$ room is burned and the rest refills the consumer pool; USDT goes to BV's receiving Safe. PV is credited to the bound member as usual.

9. Stabilizer and unlock rules

- The stabilizer k (0.4–1.0) scales consumer rewards, node mining and staking emissions. Net issuance is computed monthly from on-chain events: two consecutive months $> 0 \rightarrow k \times 0.9$ (floor 0.4); three consecutive months $< 0 \rightarrow k \div 0.9$ (cap 1.0). The contract allows no other change.
- Team and investor vesting is also milestone-gated: each quarter the protocol reports whether last quarter's net issuance was ≤ 0 ; if not, that tranche is deferred (never cancelled) and released one tranche at a time once met.

10. Governance, permissions and security

- The 49% ratio, node / BVT split, node count and mining pool size are constants with no setter.
- Admin rights sit with a Safe 4/7 multisig behind a 48-hour Timelock; emergency pause with a Safe 2/3 security group. Pausing only stops funding and distributions — users can always withdraw matured assets.
- The backend has exactly three powers — purchase eligibility signatures, Merkle roots and activity roots — all pausable; signing keys live in HSM / KMS and rotate through the Timelock. The Keeper holds only BNB for gas.
- Prices use the PancakeSwap v3 TWAP (≥ 30 minutes) only, never spot; every approval covers the exact amount of the transaction.
- Before mainnet: two independent audits with all high and medium findings fixed; reports and contract addresses are published on the dashboard, followed by a bug bounty and real-time on-chain monitoring.

11. Risk notice

BVT's price is set by the market and may be highly volatile. Smart contracts, oracles and third-party protocols carry technical risk. Node rewards depend on the BV ecosystem's actual business and members' activity; past data does not predict the future. The protocol is currently on testnet and some parameters may change before mainnet. This paper is not investment advice or a promise of returns; make your own decisions with a full understanding of the rules and risks, and follow the laws where you live.

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