

LIFE Protocol White Paper

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1. Executive Summary

LIFE is a digital token with a built-in price growth mechanism. Each purchase slightly increases the token's price, and every sale is backed by a reserve of USDT (BEP20) that ensures liquidity and confidence. This structure removes the guesswork from value: there is no inflation, no minting, and no reliance on speculation to create growth.

Unlike traditional cryptocurrencies that fluctuate wildly based on market hype or fear, LIFE offers a predictable and transparent path to value appreciation. Its design creates a self-sustaining system where every new user strengthens the reserve and contributes to a rising floor price.

The protocol is built for people who have been left behind by complex and unstable crypto markets—especially in emerging economies. It is simple to understand, easy to use, and structured to grow steadily over time.

LIFE represents a new kind of digital asset: one that grows with participation, not promises.

2. The Core Innovation

The Problem

Most cryptocurrencies are unpredictable by design. Prices swing wildly based on speculation, news, or market sentiment. Tokens are often inflated over time, devaluing early users and destabilizing the system. Even projects with strong communities struggle to maintain long-term price stability or offer users any certainty.

For everyday people—especially in emerging markets—this makes crypto inaccessible. They need something they can trust, something simple, and something built to hold value without the risk of sudden collapse.

The LIFE Solution

LIFE introduces a new kind of token: one that grows in value as people use it, without relying on speculation or inflation.



The LIFE Token

- **Built-In Price Increase:** Every time someone buys LIFE, the price goes up slightly. This change is built into the token's design and can't be changed.
- **Fixed Supply:** All 21 million LIFE tokens were created at the start. No new tokens can ever be minted, which creates natural scarcity.
- **Decentralized by Default:** The contract operates without admin control or external intervention. No one can change the rules or manipulate the price.
- **Permissionless:** Anyone can buy or sell LIFE at any time. No approval is needed, no registration, no barriers.

The Reserve System

- **Backed by USDT (BEP20):** Every token purchase funds a reserve held in USDT. This reserve is used to buy tokens back when users choose to sell, ensuring liquidity.
- **Reliable Exit Mechanism:** Sellers receive USDT from the reserve according to a transparent and fair formula. The system guarantees that users can exit at any time, with confidence.
- **Dynamic Supply Recycling:** In the LIFE Protocol, when users sell tokens, those LIFE tokens are **returned to the protocol's supply pool**, not destroyed. This means they can be sold again in the future. At the same time, each new purchase increases the USDT reserve. This combination gradually deepens the reserve while managing token circulation, creating a deflationary-like pressure without requiring actual token burns.

Predictable Growth Model

- **Formula-Based Pricing:** The price of LIFE increases along a transparent curve that's visible to all. No guessing, no hidden mechanics.
- **No Inflation:** Because all tokens are pre-minted, there's no dilution. Every buyer supports the price floor.
- **Scarcity by Design:** As more users join and tokens are gradually removed from circulation, the remaining tokens become more valuable.

3. Tokenomics



Token Specifications

- **Name:** Life
- **Symbol:** LIFE
- **Total Supply:** 21,000,000 LIFE (fully minted at TGE)
- **Initial Price:** 1 USDT (BEP20)
- **Blockchain:** Binance Smart Chain (BSC)
- **Minimum Transaction:** 1 USDT
- **Maximum Transaction:** 5,000 USDT (adjustable over time)

Initial Market Distribution

- **10%** – Team & Angel Investors (subject to vesting)
- **20%** – Protocol Token (used for future ecosystem incentives and operations)
- **70%** – Protocol Reserve (used for buybacks and initial liquidity)

Reserve Mechanics

The reserve is a USDT (BEP20) balance held by the smart contract to support LIFE's liquidity and stability.

- **Buying LIFE:** Users purchase LIFE using USDT. Each transaction increases the token price and adds USDT to the reserve.
- **Selling LIFE:** When users sell, LIFE tokens are returned to the protocol contract, and USDT is withdrawn from the reserve.
- **Burn Mechanism (in LIFE Protocol):** "Burning" means removing tokens from the circulating supply by sending them back to the LIFE Protocol contract. These tokens are held in the contract and can be purchased again by new buyers. This reduces available supply temporarily, creating scarcity.
- **Price Growth:** Every purchase increases the token price by a fixed increment, making the price predictable and transparent.

The Collateral Ratio

A key innovation of LIFE is its dynamic collateral ratio, ensuring that the reserve always maintains strong backing for tokens in circulation.

- **Circulating Supply** = All LIFE tokens **not** held in the reserve or vesting contracts
- **Reserve** = Total USDT available in the protocol's reserve
- **Collateral Ratio** = Circulating Supply ÷ Reserve

If the collateral ratio ever exceeds 1 (meaning more LIFE tokens are circulating than USDT in the reserve), the system adjusts the price **upward** until the ratio returns to 1:1. This ensures:

- **User Confidence:** The system is always backed by liquid value.
- **No Overexposure:** The token price remains in line with real backing.
- **Sustainable Liquidity:** The protocol remains solvent regardless of market activity.

The Collateral Ratio Equation

A central safeguard in LIFE Protocol is the **collateral ratio**, which ensures that all circulating LIFE tokens are always backed by actual USDT in the protocol's reserve.

- **Circulating Supply** = All LIFE tokens not held in the reserve or vesting contracts
- **Reserve** = Total USDT (BEP20) held by the LIFE Protocol
- **Collateral Ratio** = Reserve ÷ Circulating Supply

How It Works:

- **Collateral Ratio = 1**
The system holds **just enough** USDT to buy back every circulating LIFE token at its current price.
- **Collateral Ratio > 1**
The system is **overcollateralized**—there is **more USDT** than needed to support the circulating supply.

- The price is adjusted **upward** until the ratio returns to 1:1.
- This protects value and maintains confidence in the token's backing.

4. How It Works: Mechanics & Smart Contract Logic

At the heart of the LIFE Protocol is a deterministic pricing and liquidity model that lives entirely on-chain. It removes unpredictability and replaces it with a transparent, self-adjusting system—accessible to anyone with a wallet and some USDT.

Buy Function: Predictable & Fair

When a user buys LIFE tokens:

- The **price is set by a formula**, not the market. There is **no slippage**.
- The **user sees the exact price** before confirming their transaction.
- A portion of the USDT paid by the buyer is added to the protocol's **reserve**.
- LIFE tokens are issued to the user at the new price, calculated from the pricing curve.

This mechanism ensures fairness: small and large buyers operate under the same rules, thanks to **minimum (\$1) and maximum (\$5,000) transaction limits**.

Sell Function: Burn-to-Redeem

When a user sells LIFE tokens:

- The LIFE tokens are **burned**—meaning they are returned to the protocol and removed from circulation.
- In return, the user receives **USDT from the reserve**.
- The reserve is reduced, and the circulating supply decreases.
- The LIFE tokens burned are not destroyed permanently—they can be reissued if someone buys again.

Key Mechanism:

A **10% protocol fee** is applied to all sales. This fee is held in the reserve and **benefits the entire ecosystem** by increasing liquidity and strengthening the token's backing over



time.

→ This means **sellers contribute to growth**, and **holders benefit** from each sell event.

Price Curve: Transparent & Automated

The price of LIFE increases deterministically with each token purchase.

- **Start Price:** \$1.00 USDT
- **Example Increment:** +\$0.00001 per LIFE bought (actual curve defined in the contract)

This is a **bonding curve model**, where each new token costs slightly more than the last. The curve is baked into the smart contract—fully transparent and immutable.

Immutable Reserve: Trustless and Unmanipulable

The protocol's **USDT reserve is untouchable**—not by the team, not by a DAO, not by governance. It is fully owned and managed by the LIFE smart contract.

- There are only **two ways in** (buy function, donateUSDT)
- And only **one way out** (sell function)

No one can withdraw, redirect, or repurpose the funds. The reserve **only exists to back the value of LIFE**.

Voluntary Contributions: Fueling the Ecosystem

The contract includes **two special functions** that enable future growth and sustainability:

Contributing to the Buyback Reserve

Two Contribution Methods:

- **contributeToBuyBackReserveWithLife** – Users contribute LIFE tokens back to the protocol. These tokens are not burned but are **returned to the protocol's supply pool**, where they can later be sold again by the system.
- **contributeToBuybackReserve** – Users contribute directly in USDT (BEP20), which increases the liquidity available in the buyback reserve. This strengthens the protocol's ability to support sellers and stabilize the ecosystem.



These functions are key to **profit-sharing and reward distribution** in future ecosystem products, enabling services to **give back to the protocol** and **increase reserve strength** for the entire community.

Summary: Logic at a Glance

Action	Result
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Buy	USDT sent to contract → LIFE issued at current price → price increases
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Sell	LIFE sold → USDT returned from reserve to the user
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Fee	10% of sell value added to reserve → increases liquidity for all users
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Donate	USDT or LIFE can be added to the contract freely to strengthen the system
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5. The Mathematical Backbone

At the heart of the LIFE Protocol is a deterministic pricing model that creates transparent and sustainable growth. There are no emissions, no inflation, and no external dependencies—only a self-adjusting formula that responds to demand.

Price Growth Formula

The price of LIFE is not set by speculation or market volatility. It increases based on a fixed set of rules encoded directly into the smart contract. Here's how it works:



Price Increase Formula

The LIFE token price increases algorithmically based on the value of each transaction (T) and the current token price (P). The increase follows a diminishing return model as price levels rise, defined by the following piecewise function:

$$\Delta P = \begin{cases} \frac{T}{1,000,000} & \text{if } P \leq 10 \\ \frac{T}{5,000,000} & \text{if } 10 < P \leq 50 \\ \frac{T}{10,000,000} & \text{if } 50 < P \leq 100 \\ \frac{T}{21,000,000} & \text{if } P > 100 \end{cases}$$

Where:

- ΔP is the amount by which the price increases (in ARB or base unit).
- T is the transaction value (in ARB).
- P is the current token price (in ARB).

The formula is progressive: the earlier someone buys, the faster the price grows. As the protocol matures, price growth slows, providing a **stabilizing effect** and encouraging long-term adoption.

The Reserve Ratio: Always Trending Upward

The **Reserve Ratio** defines how much USDT is available to buy back all circulating LIFE tokens.

Reserve Ratio = Reserve ÷ Circulating Supply

- If the ratio is **below 1**, it means the reserve can't fully buy back all LIFE tokens at the current price.
- If the ratio is **above 1**, the protocol is **overcollateralized**—there's more USDT than needed.
- As a result of the **10% sell fee**, every sale adds more USDT than it removes from the system, pushing the reserve ratio upward over time.

This dynamic keeps the protocol solvent and creates growing confidence for every new user entering the system.

Sustainable Economics



LIFE does not rely on:

- Yield farming
- Token inflation
- External rewards

Every price increase is demand-driven. No one receives “free” tokens. The only way to acquire LIFE is to buy it, and every buy pushes the protocol forward.

This model is **closed-loop and sustainable by design.**

Growth in Action: Simulated Example

Let's look at a simplified simulation:

- **Starting price:** \$1.00
- **Increment:** \$0.000001 per \$1 USDT purchased
- **Total buys:** \$100,000 USDT

Result:

- New price \approx \$1.10 (approx.)
- Reserve \approx \$95,000 USDT (after protocol fees)
- LIFE in circulation \approx 52,000 tokens
- Reserve Ratio \approx 1.8+

Insight: Early adopters bought LIFE closer to \$1.00 and now hold tokens that can be sold at a much higher price, with liquidity guaranteed by the reserve.

Price Differential = Community Liquidity Engine

The **10% price differential on selling** acts as a built-in community fund:

- Prevents short-term speculation



- Creates a **net inflow** of USDT for every round of activity
- Over time, reserve > circulating value → price adjusts upward

This is not a promise of returns—it's a system where **growth only happens when people join**, and the liquidity grows proportionally with it.

6. Security, Auditability, and Trust

The LIFE Protocol is built with **security, transparency, and user protection** at its core. Every measure has been taken to ensure a safe and trustless experience for users.

✓ Immutable Smart Contracts

The LIFE Protocol operates on fully **immutable smart contracts**. Once deployed, the core logic cannot be altered. This guarantees that the protocol behaves exactly as defined, with **no hidden control or central authority**. Actions are predictable, irreversible, and enforce trust through code.

✓ Fully On-Chain Logic

All protocol mechanics — including price calculation, reserve logic, and referrals — are executed **entirely on-chain**. There is **no off-chain computation**, ensuring that all operations are transparent, verifiable, and censorship-resistant.

✓ No Admin Keys / No Central Control

There are **no admin keys** and **no centralized override mechanisms**. The only governance function available is setting transaction limits (minimum and maximum) to prevent abuse and maintain healthy network conditions. The protocol is built to **self-operate** without dependence on any centralized actor.

✓ Audited and Verified

The LIFE Protocol smart contracts have been **successfully audited by independent third-party firms**. These audits confirm that the contracts are secure, follow best practices, and are free from critical vulnerabilities. Reports are publicly accessible for community review.

✓ Bot & Exploit Protection

The protocol includes multiple layers of defense against malicious activity:



- **Anti-Flash Loan:** Protects against rapid exploit attacks via borrowed liquidity.
- **Anti-Bot Measures:** Discourages front-running, MEV attacks, and automated exploit bots.
- **Anti-Smart Contract Interaction:** Restricts access to only externally owned accounts (EOAs), preventing abusive calls from malicious smart contracts.
- **Slippage Control:** Enables users to set acceptable slippage, preventing price manipulation and protecting against volatile execution.

✔ Real-Time Reserve Transparency

The USDT reserve that backs the LIFE token is fully visible and traceable on-chain at all times. Users can verify the **exact backing** of circulating LIFE tokens via any blockchain explorer. This guarantees that the **Reserve Ratio** remains honest and auditable.

7. Vision & Future Outlook

Long-Term Vision:

The LIFE Protocol aims to establish LIFE as a new category of digital asset within decentralized finance (DeFi). With its predictable growth model and inherent value backed by liquidity, LIFE offers an alternative store of value that prioritizes sustainability and fairness.

By removing the reliance on speculative price actions and external rewards, LIFE provides a system where growth is driven by actual demand, creating a stable and transparent financial ecosystem.

Future Outlook:

The protocol is built to evolve with the needs of its users. As the ecosystem grows, additional features and services will be introduced, further expanding LIFE's role in decentralized finance. The focus will remain on ensuring the system's reliability, security, and alignment with the core principles of transparency and sustainability.

In the future, LIFE could serve as a foundation for more advanced financial tools, bridging the gap between traditional finance and the emerging world of DeFi. The goal is to provide everyday users with a simple, predictable, and secure way to engage with digital assets, while promoting long-term value and financial inclusion.

Smart Contract Addresses

- **LIFE Protocol**
`0x42e2773508e2ae8ff9434bea599812e28449e2cd`
- **LIFE Token**
`0x19B2834f99Fb9eB4164CB5b49046Ec207F894197`
- **LIFE Affiliate**
`0xc6e0912c404065c5f677a5c058b1918b3cf691bf`
- **LIFE Vesting**
`0xC18dAb527e9A1e085d3af3AdBA98DA4E74282189`

Glossary

Price Growth

A mechanism that increases the token's price automatically based on a formula rather than market supply and demand. In LIFE, each buy raises the token's price slightly, creating predictable upward momentum.

BEP20

A token standard on the Binance Smart Chain (BSC), similar to Ethereum's ERC20. LIFE uses USDT on the BEP20 standard for its reserve.

Bonding Curve

A pricing model where the token price increases with each purchase along a predefined curve. This ensures early adopters pay less and benefit from future growth.

Burning (LIFE Protocol)

The act of removing LIFE tokens from the circulating supply by sending them back to the smart contract. Tokens are not destroyed permanently—they can be reissued through future purchases.

Circulating Supply

The total number of LIFE tokens currently held by users and not locked in vesting contracts or the protocol reserve.

Collateral Ratio

A safety metric that compares the amount of USDT in the reserve to the circulating LIFE supply. A ratio ≥ 1 ensures full backing for all tokens.



Decentralized by Default

The LIFE Protocol smart contract has no admin or governance controls. Once deployed, no one—including the creators—can alter the rules or mechanics.

Deflation

The process of reducing the total token supply over time. With LIFE, deflation occurs through burning when users sell their tokens.

Deterministic Pricing

A pricing model based on a fixed algorithm, not market speculation. LIFE's price increases in a transparent, programmable way.

contributeToBuyBackReserveWithLife

A smart contract function allowing users or ecosystem products to burn LIFE tokens voluntarily—reducing supply and strengthening price support.

contributeToBuybackReserve

A smart contract function that allows anyone to send USDT to the reserve without receiving LIFE in return. It's used to grow the protocol's backing and support the ecosystem.

Immutable Reserve

A USDT reserve managed only by the smart contract. It can't be accessed, redirected, or altered by any external party.

Initial Price

The starting price of LIFE tokens at the time of the Token Generation Event (TGE). For LIFE, this was set at 1 USDT.

Liquidity

The ease with which LIFE can be bought or sold without affecting its price. LIFE's reserve-backed design ensures sellers always have access to USDT.

Maximum Transaction Limit

The largest amount of USDT a single wallet can use to buy LIFE in one transaction. Initially set at \$5,000 to prevent large whales from dominating the supply early.

Minimum Transaction Limit

The smallest allowed purchase amount. Initially set at \$1 to ensure accessibility for users in all markets.

Overcollateralization

A condition where the reserve holds more USDT than necessary to buy back all circulating LIFE tokens, creating a surplus buffer for the protocol.

Permissionless

Describes systems that anyone can access and use without requiring approval. Buying and selling LIFE tokens is permissionless.

Price Floor

The lowest possible token value, determined by the amount of USDT in the reserve. It rises with each purchase and is protected by the protocol mechanics.

Price Increment

The amount by which the LIFE token price increases with each buy. This value is determined by a formula that evolves over time.

Protocol Fee (10%)

A fixed fee charged when users sell LIFE tokens. This fee is added to the reserve, increasing backing and rewarding holders indirectly.

Protocol Reserve

A pool of USDT held by the LIFE Protocol to back every token in circulation. It grows with buys and shrinks slightly with sells.

Reserve Ratio

A key performance indicator:

Reserve Ratio = Reserve ÷ Circulating Supply

This tracks the financial health of the protocol and informs price stability.

Scarcity by Design

LIFE's 21 million token supply is fixed forever. No tokens can be minted, and selling removes tokens from circulation temporarily, enhancing scarcity.

Self-Sustaining System

A system that does not require outside intervention, emissions, or rewards to operate. LIFE's design uses internal mechanisms to ensure continuous growth and value.

Smart Contract

An immutable program deployed on Binance Smart Chain that governs how LIFE can be bought, sold, and managed.

Token Generation Event (TGE)

The moment when all 21 million LIFE tokens were created. No further tokens can ever be minted.

Transparency

LIFE Protocol's code and pricing logic are open, visible, and predictable. Users always know the price and reserve state before interacting.



USDT (BEP20)

A stablecoin pegged to the US dollar, used by the LIFE Protocol to hold its reserve.
Ensures that the sell-back value of LIFE is stable and liquid.

