

Bolas Technical Documentation

Project Details

Project Name	BOLAS Binance Smart Chain Token
Product Version	v1.0.2
Product Phase	Production
Document Last Updated	Jan 27, 2022

Project Overview

The Bolas ecosystem consists of a deflationary, fee-on-transfer Binance Smart Chain token, an amazing range of NFTs, a NFT marketplace and a series of play-to-earn mobile games. All these components cohesively work together for a secure and amazing experience for our users.

This document presents technical documentation of the key components of the Bolas BSC token development project.

Project Objectives

The Bolas token development is aimed at being the base layer of the Bolas pay-to-earn gaming & NFT marketplace ecosystem. The Bolas token acts as the underlying cryptocurrency of the ecosystem while transparently providing dividend benefits for the investors and generating the necessary funds for the pay-to-earn mobile games via the transaction taxes.

Token Components

ERC20 Contract

ERC20 refers to a scripting standard used within the Ethereum blockchain. This technical standard dictates a number of rules and actions that an Ethereum token or smart contract must follow and steps to be able to implement it.

Bolas Binance Smart Chain token is built on the ERC20 Ethereum token standard, extending the OpenZeppelin contract library which is globally known for standardized token libraries such as ERC20 & ERC721. Bolas contract adheres to the standard token best practices while

implementing the business specific fee-on-transfer deflationary token requirements. Here's the active [Bolas contract on BscScan](#).

Deflationary Initial Supply	192,000,000,000,000
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Fee-on-Transfer Transactions

Bolas enforces taxes on token buying and selling based on the following current tax percentages. Transferring BOLAS from one account to another is not subjected to taxes. The following tax percentages are modifiable by the token owner.

Tax Name	Tax Percentage
Burn Tax	2.5%
Dividends Tax	2.5%
Liquidity Tax	1%
Marketing Tax	5%
Game & Apps Tax	0%
Total Tax	11%
Swap Slippage	~13%

PancakeSwap Integration

Bolas token implements support for PancakeSwap V2, which is based on Uniswap, the popular DEX. We use the [official PancakeSwap contract](#) in the token. Since Bolas is a fee-on-transfer token, the buying and selling slippages must be at least the total fee percentage. In our tests the slippage is currently at 13% for both buying & selling.

All the tax fees are accumulated in the contract itself. When the token repository grows above a certain threshold, the tokens are swapped in batches and gets distributed into fee wallets. These swaps are combined into a single swap at a time to be cost effective.

Dividend Tracker

The Bolas ecosystem is designed to make every token holder a stakeholder. Our BolasDividendTracker contract is heavily inspired by the popular [DividendTracker by Roger Wu](#). It tracks all token holders with a token balance above a threshold, and gradually distributes the dividend BNB sent to it from the Bolas contract. Dividend processing is done with each

transaction automatically, so the dividend processing gas fees are spread among many transactions. Here's the active [BolasDividendTracker contract](#) on BscScan.

Solidity Testing

Bolas source project contains sequences of HardHat tests to ensure the token functionalities such as fees, swapping, liquidity providing, ownership permissions, dividends and token metadata. We use HardHat as the development framework, but the unit tests are migrated from our previous truffle version of the tests. So HardHat uses the npm library '@nomiclabs/hardhat-truffle5' to execute truffle tests inside the HardHat environment.

Additional Resources

- [Official website](#)
- [Twitter](#)
- [Telegram](#)
- [Buy BOLAS on pancakeswap](#)
- [Whitepaper](#)

Technical Inquiry Contact

- Bolas development team on Telegram @paragonthedeveloper