

Blockchain Security - Smart Contract Audits

Security Assessment

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Disclaimer

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ContractWolf provides transparent report to all its "clients" and to its "clients participants" and will not claim any guarantee of bug-free code within it's SMART CONTRACT.

ContractWolf presence is to analyze, audit and assess the client's smart contract's code.

Each company or projects should be liable to its security flaws and functionalities.

Scope of Work

ShiPonzi Protocol team agreed and provided us with the files that needs to be tested (Github, Bscscan, Etherscan, files, etc.). The scope of the audit is the main contract.

The goal of this engagement was to identify if there is a possibility of security flaws in the implementation of the contract or system.

ContractWolf will be focusing on contract issues and functionalities along with the projects claims from smart contract to their website, whitepaper and repository which has been provided by **ShiPonzi Protocol.**

Network

Binance Smart Chain (BEP20)

Contract link

https://bscscan.com/token/0x16E79a4e6bd156125b2931fFA6b6A59573 849b14

Website

TBA

Telegram

https://t.me/ShiPonziProtocol

Twitter

https://twitter.com/shiponzi

Description

ShiPonzi is a life changing DeFi 3.0 Protocol. It's a SHIB reward and SHIB burn Token, with a running rebased Ponzi Protocol, incoming DEX, DeFi, High Staking, NFT platform and much more.

Logo



Risk Level Classification

Risk Level represents the classification or the probability that a certain function or threat that can exploit vulnerability and have an impact within the system or contract.

Risk Level is computed based on CVSS Version 3.0

Level	Value	Vulnerability
Critical	9 - 10	An Exposure that can affect the contract functions in several events that can risk and disrupt the contract
High	7 - 8.9	An Exposure that can affect the outcome when using the contract that can serve as an opening in manipulating the contract in an unwanted manner
Medium	4 - 6.9	An opening that could affect the outcome in executing the contract in a specific situation
Low	0.1 - 3.9	An opening but doesn't have an impact on the functionality of the contract
Informational	0	An opening that consists of information's but will not risk or affect the contract

Auditing Approach

Every line of code along with its functionalities will undergo manual review to check its security issues, quality, and contract scope of inheritance. The manual review will be done by our team that will document any issues that there were discovered.

Methodology

The auditing process follows a routine series of steps:

- 1. Code review that includes the following:
 - Review of the specifications, sources, and instructions provided to ContractWolf to make sure we understand the size, scope, and functionality of the smart contract.
 - Manual review of code, our team will have a process of reading the code line-by-line with the intention of identifying potential vulnerabilities and security flaws.
- 2. Testing and automated analysis that includes:
 - Testing the smart contract functions with common test cases and scenarios, to ensure that it returns the expected results.
- 3. Best practices review, the team will review the contract with the aim to improve efficiency, effectiveness, clarifications, maintainability, security, and control within the smart contract.
- 4. Recommendations to help the project take steps to secure the smart contract.

Used Code from other Frameworks/Smart Contracts (Direct Imports)

Imported Packages

- Context
- Ownable
- IERC20
- ERC20
- IDividendPayingToken
- IDividendPayingTokenInterface
- IDividendPayingTokenOptionalINterface
- DividendPayingToken
- IUniswapV2Factory
- IUniswapv2Pair
- IUniswapv2Router01
- IUniswapv2Router02
- IterableMapping
- SafeMath
- SafeMathInt
- SHIP
- ShibaDividendTracker

Description

Optimization enabled: Yes

Decimal: 18

Symbol: SHIP

Max / Total supply: 1,000,000,000,000

Capabilities

Components

Version	Contracts	Libraries	Interfaces	Abstract
1.0	4	4	8	2

Exposed Functions

Version	Public	Private	Ex	ternal	Internal
1.0	40	7		94	35

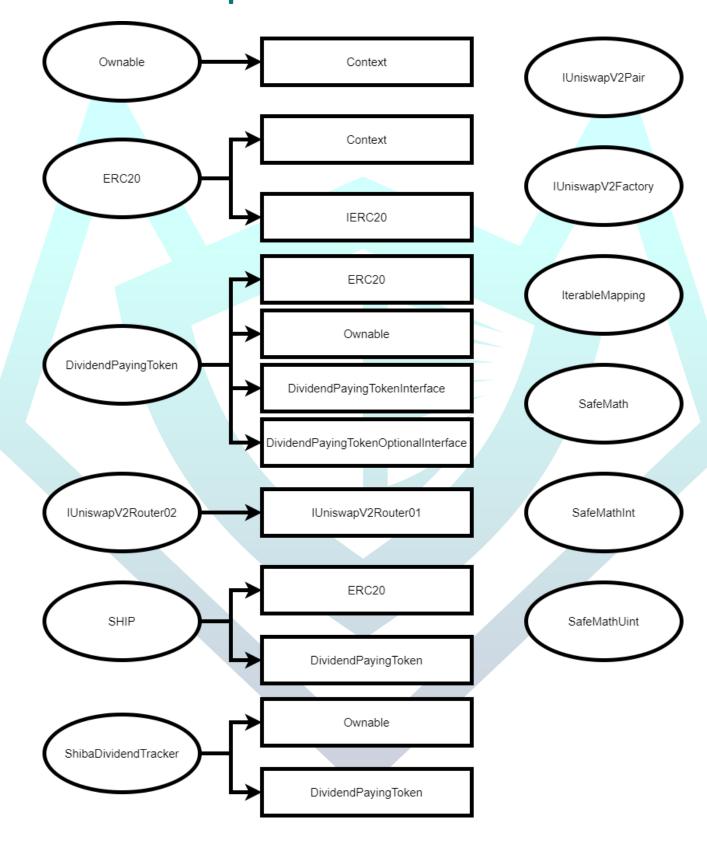
State Variables

Version	Total	Public
1.0	33	22

Capabilities

Version	Solidity	Experimental	Can	Uses	Has
	Versions	Features	Receive	Assembly	Destroyable
	Observed		Funds		Contracts
1.0	v0.8.13		Yes	No	No

Inheritance Graph



Correct implementation of Token Standard

Tested	Verified
✓	✓

Overall Checkup (Smart Contract Security)

Tested	Verified
√	√

Function	Description	Exist	Tested	Verified
TotalSupply	Information about the total coin or token supply	√	√	√
BalanceOf	Details on the account balance from a specified address	√	√	√
Transfer	An action that transfers a specified amount of coin or token to a specified address	√	√	✓
TransferFrom	An action that transfers a specified amount of coin or token from a specified address	√	√	✓
Approve	Provides permission to withdraw specified number of coin or token from a specified address	√	✓	√

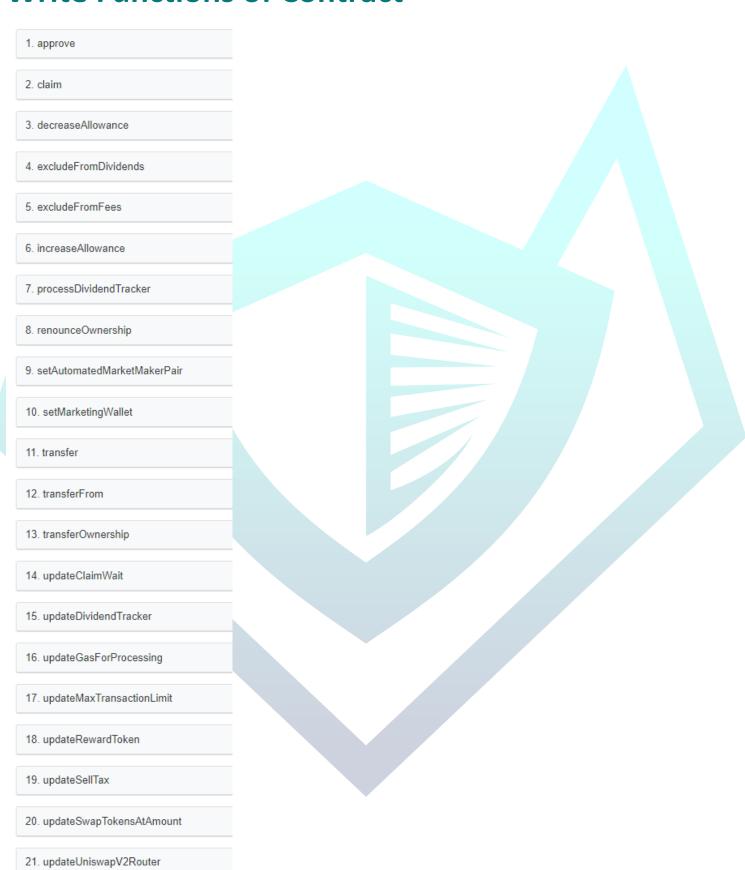
Verify Claims

Statement	Exist	Tested	Deployer
Renounce Ownership	√	✓	✓
Mint	√	✓	X
Burn	√	✓	X
Block	_	_	_
Pause	_	_	_

Legend

Attribute	Symbol
Verified / Can	✓
Verified / Cannot	X
Unverified / Not checked	P ⊌
Not Available	_

Write Functions of Contract



AUDIT PASSED

Low Issues

Use of 'tx.origin' as a part of authorization control (SWC-115)

L: 1225, 1316

Audit Comments

- Deployer can set/update sell tax not greater than 25%
- Deployer can renounce ownership
- Deployer can transfer ownership
- Deployer can set reward token address
- Deployer can set uniswap router
- Deployer can set dividend address
- Deployer can set marketing wallet address
- Deployer can set gas for processing between 200,000 and 500,000
- Deployer can set balance on user's address
- Deployer can exclude/include address from fees and dividends
- Deployer can set max transaction limit with indefinite amount
- Deployer can set limit in swapTokensAtAmount
- Deployer cannot lock/pause contract
- Deployer cannot block/unblock users
- Deployer can distribute dividends
- Deployer can set claim wait



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