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Orbit

Audit

Security Assessment

19. April, 2022

For

ORBIT

Disclaimer	3
Description	5
Project Engagement	5
Logo	5
Contract Link	5
Methodology	7
Used Code from other Frameworks/Smart Contracts (direct imports)	8
Tested Contract Files	9
Source Lines	10
Risk Level	10
Capabilities	11
Inheritance Graph	12
CallGraph	13
Scope of Work/Verify Claims	14
Modifiers and public functions	20
Source Units in Scope	23
Critical issues	24
High issues	24
Medium issues	24
Low issues	24
Informational issues	25
Commented Code exist	25
Audit Comments	26
SWC Attacks	27

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Version	Date	Description
1.0	19. April 2022	<ul style="list-style-type: none">• Layout project• Automated- /Manual-Security Testing• Summary

Network

Binance Smart Chain (BEP20)

Website

<https://orbitlaunch.io/>

Telegram

<https://t.me/orbitlaunchbsc>

Twitter

<https://twitter.com/Orbitlaunchm31>

Instagram

<https://www.instagram.com/orbitlaunchm31/>



Description

Providing Safe & Effective Trading Tools
Together With A Complete Package For Passive Income

Project Engagement

During the 16th of April 2022, **Orbit Team** engaged Solidproof.io to audit smart contracts that they created. The engagement was technical in nature and focused on identifying security flaws in the design and implementation of the contracts. They provided Solidproof.io with access to their code repository and whitepaper.

Logo

The logo for Orbit, featuring the word "ORBIT" in a bold, black, sans-serif font. The letter "O" is stylized with a horizontal line through its center. The background of the entire page features a large, faint, light-gray watermark of the Orbit logo, which is a shield shape divided into four quadrants with different patterns: a solid color, a grid, a wavy line, and a checkered pattern.

Contract Link

v1.0

- Provided as file

Vulnerability & Risk Level

Risk represents the probability that a certain source-threat will exploit vulnerability, and the impact of that event on the organization or system. Risk Level is computed based on CVSS version 3.0.

Level	Value	Vulnerability	Risk (Required Action)
Critical	9 - 10	A vulnerability that can disrupt the contract functioning in a number of scenarios, or creates a risk that the contract may be broken.	Immediate action to reduce risk level.
High	7 – 8.9	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.	Implementation of corrective actions as soon as possible.
Medium	4 – 6.9	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.	Implementation of corrective actions in a certain period.
Low	2 – 3.9	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.	Implementation of certain corrective actions or accepting the risk.
Informational	0 – 1.9	A vulnerability that have informational character but is not effecting any of the code.	An observation that does not determine a level of risk

Auditing Strategy and Techniques Applied

Throughout the review process, care was taken to evaluate the repository for security-related issues, code quality, and adherence to specification and best practices. To do so, reviewed line-by-line by our team of expert pentesters and smart contract developers, documenting any issues as there were discovered.


Methodology

The auditing process follows a routine series of steps:

1. Code review that includes the following:
 - i) Review of the specifications, sources, and instructions provided to SolidProof to make sure we understand the size, scope, and functionality of the smart contract.
 - ii) Manual review of code, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
 - iii) Comparison to specification, which is the process of checking whether the code does what the specifications, sources, and instructions provided to SolidProof describe.
2. Testing and automated analysis that includes the following:
 - i) Test coverage analysis, which is the process of determining whether the test cases are actually covering the code and how much code is exercised when we run those test cases.
 - ii) Symbolic execution, which is analysing a program to determine what inputs causes each part of a program to execute.
3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.
4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts.

Used Code from other Frameworks/Smart Contracts (direct imports)

Imported packages:



```
IERC20
IERC20Metadata
Context
ERC20
📦 Address
📦 SafeERC20
Ownable
📦 SafeMath
📦 Counters
IUniswapV2Factory
IUniswapV2Router01
IUniswapV2Router02
```


Tested Contract Files

This audit covered the following files listed below with a SHA-1 Hash.

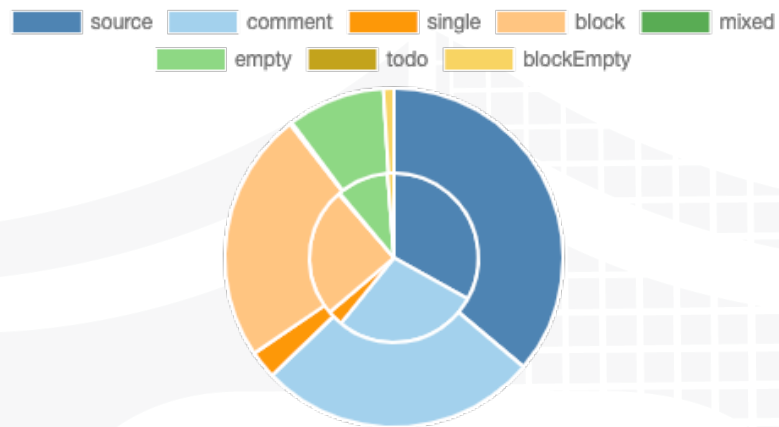
A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.

v1.0

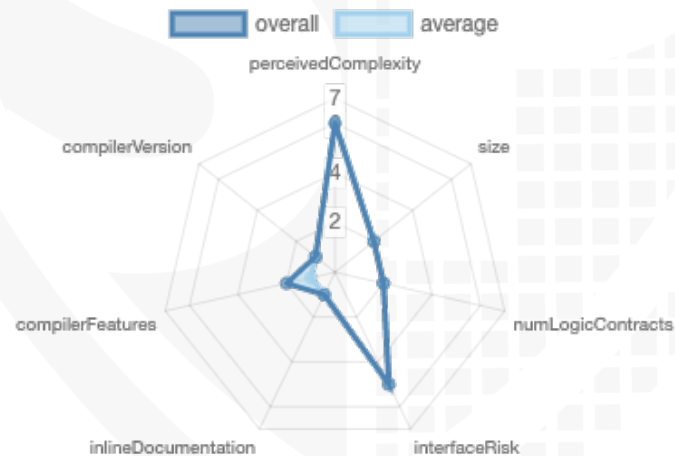
File Name	SHA-1 Hash
contracts/OrbitFullSource.sol	395c08b4addcf0900d35f0bcfa0f5cfddb94ef30

Metrics

Source Lines v1.0



Risk Level v1.0



Capabilities

Components

Version	Contracts	Libraries	Interfaces	Abstract
1.0	2	4	5	2

Exposed Functions

This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.

Version	Public	Payable
1.0	88	5

Version	External	Internal	Private	Pure	View
1.0	70	130	6	19	27

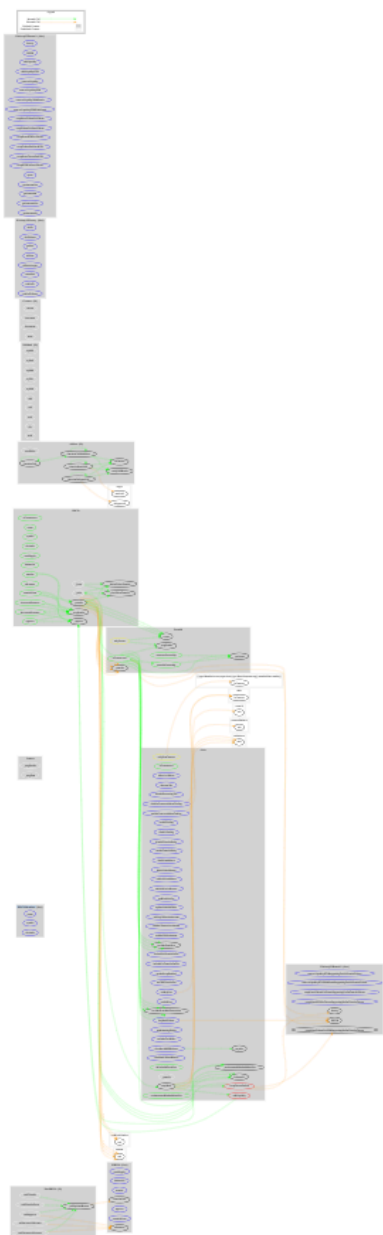
State Variables

Version	Total	Public
1.0	47	33

Capabilities

Version	Solidity Versions observed	Experimental Features	Can Receive Funds	Uses Assembly	Has Destroyable Contracts
1.0	<code>^0.8.0</code> <code>>0.6.0</code>	ABIEncoderV2	yes	yes (2 asm blocks)	

Version	Transfers ETH	Low-Level Calls	DelegateCall	Uses Hash Functions	EC Recover	New/Create/Create2
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Scope of Work/Verify Claims

The above token Team provided us with the files that needs to be tested (Github, Bscscan, Etherscan, files, etc.). The scope of the audit is the main contract (usual the same name as team appended with .sol).

We will verify the following claims:

1. Correct implementation of Token standard
2. Deployer cannot mint any new tokens
3. Deployer cannot burn or lock user funds
4. Deployer cannot pause the contract
5. Overall checkup (Smart Contract Security)

Correct implementation of Token standard

ERC20				
Function	Description	Exist	Tested	Verified
TotalSupply	Provides information about the total token supply	✓	✓	✓
BalanceOf	Provides account balance of the owner's account	✓	✓	✓
Transfer	Executes transfers of a specified number of tokens to a specified address	✓	✓	✓
TransferFrom	Executes transfers of a specified number of tokens from a specified address	✓	✓	✓
Approve	Allow a spender to withdraw a set number of tokens from a specified account	✓	✓	✓
Allowance	Returns a set number of tokens from a spender to the owner	✓	✓	✓

Write functions of contract v1.0

decreaseTax
disableDecreasingTax
enableContractAddressTrading
disableContractAddressTrading
enableTrading
disableTrading
disableTransferDelay
enableTransferDelay
blackListAddress
blackListAddresses
unblackListAddress
unblackListAddresses
setBlackListFee
updateLimitsInEffect
setSwapTokensAtAmount
setMaxTransactionAmount
setMaxWalletAmount
excludeFromMaxTransaction
includeForTransferInTax
includeForTransferOutTax
updateSwapEnabled
setCEXTransferFee
setBuyFees
setSellFees
excludeFromFees
setAutomatedMarketMakerPair
setMarketingWallet
setOtherTaxWallet
clearStuckBNBBalance
clearStuckTokenBalance
buyBackTokens

renounceOwnership
transferOwnership

Deployer cannot mint any new tokens

Name	Exist	Tested	Status
Deployer cannot mint	✓	✓	✓
Max / Total Supply	100000000		



Deployer cannot burn or lock user funds

Name	Exist	Tested	Status
Deployer cannot lock	✓	✓	✗
Deployer cannot burn	✓	✓	✓

Comments:

v1.0

- Owner can blacklist addresses
- Owner can lock user funds by
 - Setting max tx/maxWallet amount to 0

Deployer cannot pause the contract

Name	Exist	Tested	Status
Deployer cannot pause	—	—	—



Overall checkup (Smart Contract Security)

Tested	Verified
✓	✓

Legend

Attribute	Symbol
Verified / Checked	✓
Partly Verified	🚩
Unverified / Not checked	✗
Not available	—

Modifiers and public functions

v1.0

- ▼ decreaseTax
 - Ⓜ onlyOwner
- ▼ disableDecreasingTax
 - Ⓜ onlyOwner
- ▼ enableContractAddressTrading
 - Ⓜ onlyOwner
- ▼ disableContractAddressTrading
 - Ⓜ onlyOwner
- ▼ enableTrading
 - Ⓜ onlyOwner
- ▼ disableTrading
 - Ⓜ onlyOwner
- ▼ disableTransferDelay
 - Ⓜ onlyOwner
- ▼ enableTransferDelay
 - Ⓜ onlyOwner
- ▼ blacklistAddress
 - Ⓜ onlyOwner
- ▼ blacklistAddresses
 - Ⓜ onlyOwner
- ▼ unblacklistAddress
 - Ⓜ onlyOwner
- ▼ unblacklistAddresses
 - Ⓜ onlyOwner
- ▼ setBlackListFee
 - Ⓜ onlyOwner
- ▼ updateLimitsInEffect
 - Ⓜ onlyOwner
- ▼ setSwapTokensAtAmount
 - Ⓜ onlyOwner
- ▼ setMaxTransactionAmount
 - Ⓜ onlyOwner
- ▼ setMaxWalletAmount
 - Ⓜ onlyOwner
- ▼ excludeFromMaxTransaction
 - Ⓜ onlyOwner
- ▼ includeForTransferInTax
 - Ⓜ onlyOwner
- ▼ includeForTransferOutTax
 - Ⓜ onlyOwner
- ▼ updateSwapEnabled
 - Ⓜ onlyOwner
- ▼ setCEXTransferFee
 - Ⓜ onlyOwner
- ▼ setBuyFees
 - Ⓜ onlyOwner
- ▼ setSellFees
 - Ⓜ onlyOwner
- ▼ excludeFromFees
 - Ⓜ onlyOwner
- ▼ setAutomatedMarketMakerPair
 - Ⓜ onlyOwner
- ▼ setMarketingWallet
 - Ⓜ onlyOwner
- ▼ setOtherTaxWallet
 - Ⓜ onlyOwner

- ▼ clearStuckBNBBalance
 - Ⓜ onlyOwner
- ▼ clearStuckTokenBalance
 - Ⓜ onlyOwner
- ▼ buyBackTokens
 - Ⓜ onlyOwner

Comments

- Deployer can set following state variables without any limitations
 - sellMarketingFee
 - sellLiquidityFee
 - sellOtherTaxFee
 - sellTotalFees
 - buyMarketingFee
 - buyLiquidityFee
 - buyOtherTaxFee
 - buyTotalFees
 - cexTransferFee
 - maxWallet
 - maxTransactionAmount
 - swapTokensAtAmount
 - blackListFee
 - tradingActiveBlock
 - Can be set back to block.number every time
 - _decreasing
 - _prevUpdatedBlock
 - _percent
 - _perBlock
 - _limit
- Deployer can enable/disable following state variables
 - automatedMarketMakerPairs
 - _isExcludedFromFees
 - swapEnabled
 - _isIncludeForTransferOutTax
 - _isIncludeForTransferInTax
 - _isExcludedMaxTransactionAmount
 - limitsInEffect
 - _blackListAddr
 - transferDelayEnabled
 - tradingActive
 - _isExcludedFromContractBuyingLimit
 - _decreasing
- Deployer can set following addresses
 - otherTaxWallet
 - marketingWallet
- Owner can get
 - address tokens with clearStuckTokenBalance
 - Bnb from contract with clearStuckBNBBalance




- If limits in effect is true and trading is disabled only excluded addresses are allowed to transfer

Please check if an OnlyOwner or similar restrictive modifier has been forgotten.



Source Units in Scope

v1.0

Type	File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
	contracts/OrbitFullSource.sol	8	5	2055	1664	794	773	628	
	Totals	8	5	2055	1664	794	773	628	

Legend

Attribute	Description
Lines	total lines of the source unit
nLines	normalized lines of the source unit (e.g. normalizes functions spanning multiple lines)
nSLOC	normalized source lines of code (only source-code lines; no comments, no blank lines)
Comment Lines	lines containing single or block comments
Complexity Score	a custom complexity score derived from code statements that are known to introduce code complexity (branches, loops, calls, external interfaces, ...)

Audit Results

AUDIT PASSED

Critical issues

No critical issues

High issues

No high issues

Medium issues

No medium issues

Low issues

Issue	File	Type	Line	Description
#1	Main	Contract doesn't import npm packages from source (like OpenZeppelin etc.)	-	We recommend to import all packages from npm directly without flatten the contract. Functions could be modified or can be susceptible to vulnerabilities
#2	Main	A floating pragma is set	7	The current pragma Solidity directive is „^0.8.0“.
#3	Main	Missing Zero Address Validation (missing-zero-check)	1729, 1719, 1724	Check that the address is not zero
#4	Main	Local variables shadowing	1468	Rename the local variables that shadow another component

#5	Main	Missing Events Arithmetic	1525-1257, 1673-1675, 1680, 1665, 1631, 1635, 1689, 1691-1692, 1626	Emit an event for critical parameter changes
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Informational issues

Issue	File	Type	Line	Description
#1	Main	Misspelling	See description	Change following words: - exlcude L1382 Make sure to change it everywhere else as well.
#2	Main	Error message is missing	1731	Provide an error message for require statement
#3	Main	NatSpec documentation missing	-	If you started to comment your code, also comment all other functions, variables etc.
#4	Main	Low level call check	2020, 2032	Check the success status of low level call Keep it in mind if otherTaxWallet is zero address the funds are lost. Same for marketingWallet
#5	Main	Multiple SPDX Licenses	-	Remove multiple SPDX Licenses

Commented Code exist

There are some instances of code being commented out in the following files that should be removed:

File	Line	Comment
Main	1471	// swapTokensAtAmount = totalSupply * 5 / 10000;
	1677	// require(buyTotalFees <= 15, "Must keep fees at 15% or less");
	1693	// require(sellTotalFees <= 15, "Must keep fees at 30% or less");
	1770	// require(_prevBuyMarketingFee < buyMarketingFee, "");

Recommendation

Remove the commented code, or address them properly.

Audit Comments

We recommend you to use the special form of comments (NatSpec Format, Follow link for more information <https://docs.soliditylang.org/en/v0.5.10/natspec-format.html>) for your contracts to provide rich documentation for functions, return variables and more. This helps investors to make clear what that variables, functions etc. do.

19. April 2022:

- Read whole report for more information



SWC Attacks

ID	Title	Relationships	Status
SW C-1 36	Unencrypted Private Data On-Chain	CWE-767: Access to Critical Private Variable via Public Method	PASSED
SW C-1 35	Code With No Effects	CWE-1164: Irrelevant Code	PASSED
SW C-1 34	Message call with hardcoded gas amount	CWE-655: Improper Initialization	PASSED
SW C-1 33	Hash Collisions With Multiple Variable Length Arguments	CWE-294: Authentication Bypass by Capture-replay	PASSED
SW C-1 32	Unexpected Ether balance	CWE-667: Improper Locking	PASSED
SW C-1 31	Presence of unused variables	CWE-1164: Irrelevant Code	PASSED
SW C-1 30	Right-To-Left-Override control character (U+202E)	CWE-451: User Interface (UI) Misrepresentation of Critical Information	PASSED
SW C-1 29	Typographical Error	CWE-480: Use of Incorrect Operator	PASSED
SW C-1 28	DoS With Block Gas Limit	CWE-400: Uncontrolled Resource Consumption	PASSED

SW C-1 27	Arbitrary Jump with Function Type Variable	CWE-695: Use of Low-Level Functionality	PASSED
SW C-1 25	Incorrect Inheritance Order	CWE-696: Incorrect Behavior Order	PASSED
SW C-1 24	Write to Arbitrary Storage Location	CWE-123: Write-what-where Condition	PASSED
SW C-1 23	Requirement Violation	CWE-573: Improper Following of Specification by Caller	PASSED
SW C-1 22	Lack of Proper Signature Verification	CWE-345: Insufficient Verification of Data Authenticity	PASSED
SW C-1 21	Missing Protection against Signature Replay Attacks	CWE-347: Improper Verification of Cryptographic Signature	PASSED
SW C-1 20	Weak Sources of Randomness from Chain Attributes	CWE-330: Use of Insufficiently Random Values	PASSED
SW C-11 9	Shadowing State Variables	CWE-710: Improper Adherence to Coding Standards	NOT PASSED
SW C-11 8	Incorrect Constructor Name	CWE-665: Improper Initialization	PASSED
SW C-11 7	Signature Malleability	CWE-347: Improper Verification of Cryptographic Signature	PASSED

SW C-11 6	Timestamp Dependence	CWE-829: Inclusion of Functionality from Untrusted Control Sphere	PASSED
SW C-11 5	Authorization through tx.origin	CWE-477: Use of Obsolete Function	PASSED
SW C-11 4	Transaction Order Dependence	CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')	PASSED
SW C-11 3	DoS with Failed Call	CWE-703: Improper Check or Handling of Exceptional Conditions	PASSED
SW C-11 2	Delegatecall to Untrusted Callee	CWE-829: Inclusion of Functionality from Untrusted Control Sphere	PASSED
SW C-11 1	Use of Deprecated Solidity Functions	CWE-477: Use of Obsolete Function	PASSED
SW C-11 0	Assert Violation	CWE-670: Always-Incorrect Control Flow Implementation	PASSED
SW C-1 09	Uninitialized Storage Pointer	CWE-824: Access of Uninitialized Pointer	PASSED
SW C-1 08	State Variable Default Visibility	CWE-710: Improper Adherence to Coding Standards	PASSED
SW C-1 07	Reentrancy	CWE-841: Improper Enforcement of Behavioral Workflow	PASSED
SW C-1 06	Unprotected SELFDESTRUCT Instruction	CWE-284: Improper Access Control	PASSED

SW C-1 05	Unprotected Ether Withdrawal	CWE-284: Improper Access Control	PASSED
SW C-1 04	Unchecked Call Return Value	CWE-252: Unchecked Return Value	NOT PASSED
SW C-1 03	Floating Pragma	CWE-664: Improper Control of a Resource Through its Lifetime	NOT PASSED
SW C-1 02	Outdated Compiler Version	CWE-937: Using Components with Known Vulnerabilities	PASSED
SW C-1 01	Integer Overflow and Underflow	CWE-682: Incorrect Calculation	PASSED
SW C-1 00	Function Default Visibility	CWE-710: Improper Adherence to Coding Standards	PASSED

The logo features the words "Solid Proofed" in a white, elegant script font. The word "Solid" is positioned above "Proofed". Behind the text is a faint, stylized shield emblem with a grid-like pattern, rendered in a darker shade of blue. The entire composition is set against a solid blue background.

Solid
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A small horizontal bar representing the German flag, with black, red, and gold stripes.

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