

Smart Contract Vulnerability Audit

IOTEN

Dec 07, 2021



Smart Contract – Audit Overview

Project Summary

Project Name	IOTEN
Platform	Binance Smart Chain
Language	Solidity
Commits	0xbaae1192b9a115391ed2062b3a5f5d3509461ccb

Audit Summary

Delivery Date	December XX, 2021
Method of Audit	Human and AI
Consultants Engaged	Two
Timeline	December 05, 2021 – December 08, 2021

Vulnerability Summary

Vulnerability Level	Total	Resolved
Critical	0	✓
Major	0	✓
Medium	0	✓
Minor	0	✓

Smart Contract - Contract Overview

All information is recorded as of 12/07/2021.

Contract Name	ERC20.sol
Contract Ticker	IOTN
Contract Address	0xBAAe1192b9A115391Ed2062B3a5f5d3509461CCb
Contract Creator	0x660f8CB3eEbF1eb8d5CCb39C632E335f1E91282F
Decimals	18
Total Supply	10,000,000,000
Token Holders	1
Token Transfers	1
Compiler Version	v0.8.9+commit.e5eed63a
Source Code	Solidity
Optimization Enabled	No with 200 runs
Other Settings	default evmVersion, Unlicense license

Smart Contract - Vulnerabilities

Vulnerability Tested	Human Review	Ai Review	Line(s) Affected	Results
Function Default Visibility				
Integer Overflow and Underflow				
Outdated Compiler Version				
Floating Pragma				
Unchecked Call Return Value				
Unprotected Ether Withdrawal				
Unprotected SELFDESTRUCT Instruction				
Unencrypted Private Data On-Chain				

Smart Contract - Vulnerabilities

Vulnerability Tested	Human Review	Ai Review	Line(s) Affected	Results
Reentrancy				
State Variable Default Visibility				
Uninitialized Storage Pointer				
Assert Violation				
Use of Deprecated Solidity Functions				
Delegatecall to Untrusted Callee				
DoS with Failed Call				
Code With No Effects				

Smart Contract - Vulnerabilities

Vulnerability Tested	Human Review	Ai Review	Line(s) Affected	Results
Transaction Order Dependence				
Authorization through tx.origin				
Block values as a proxy for time				
Signature Malleability				
Incorrect Constructor Name				
Shadowing State Variables				
Weak Sources of Randomness from Chain Attributes				

Smart Contract - Vulnerabilities

Vulnerability Tested	Human Review	Ai Review	Line(s) Affected	Results
Missing Protection against Signature Replay Attacks				
Lack of Proper Signature Verification				
Requirement Violation				
Write to Arbitrary Storage Location				
Incorrect Inheritance Order				
Insufficient Gas Griefing				
Arbitrary Jump with Function Type Variable				

Smart Contract - Vulnerabilities

Vulnerability Tested	Human Review	Ai Review	Line(s) Affected	Results
DoS With Block Gas Limit				
Typographical Error				
Right-To-Left-Override control character				
Presence of unused variables				
Unexpected Ether balance				
Hash Collisions With Multiple Variable Length Arguments				
Message call with hardcoded gas amount				

Smart Contract - Code Analysis

We did not identify any minor nor significant vulnerabilities within the contract code.



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Smart Contract - Contract Functions

+ [Int] IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

+ [Lib] SafeMath

- [Int] add
- [Int] sub
- [Int] mul
- [Int] div
- [Int] mod
- [Int] mod

+ Context

- [Int] _msgSender
- [Int] _msgData

+ [Lib] Address

- [Int] isContract
- [Int] sendValue #
- [Int] functionCall #
- [Int] functionCall #
- [Int] functionCallWithValue #
- [Int] functionCallWithValue #
- [Prv] _functionCallWithValue #

+ Ownable (Context)

- [Pub] <Constructor> #
- [Pub] owner
- [Pub] transferOwner #
- modifiers: onlyOwner



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Smart Contract - Contract Functions

+ ERC20 (Context, IERC20, Ownable)

- [Pub] <Constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] tokenFromReflection
- [Ext] setTaxFeePercent #
 - modifiers: onlyOwner
- [Ext] setBurnFeePercent #
 - modifiers: onlyOwner
- [Prv] _reflectFee #
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply
- [Prv] calculateTaxFee
- [Prv] calculateBurnFee
- [Prv] _approve #
- [Prv] _transfer #
- [Prv] _transferStandard #



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Smart Contract - Owner Functions

- Owner can modify tax fee
- Owner can modify burn fee
- Owner can transfer contract ownership



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Smart Contract - Owner Functions

```
function setTaxFeePercent(uint256 taxFee) external onlyOwner() {  
    _taxFee = taxFee;  
}
```

```
function setBurnFeePercent(uint256 burnFee) external onlyOwner() {  
    _burnFee = burnFee;  
}
```

```
function transferOwner(address newOwner) public virtual onlyOwner {  
    require(newOwner != address(0), "Ownable: new owner is the zero address");  
    emit OwnershipTransferred(_owner, newOwner);  
    _owner = newOwner;  
}
```

Smart Contract –

Mint function

This contract does not contain a mint function. We were unable to locate a mint function within the code.

Smart Contract – Contract Ownership

Contract ownership has not been renounced at the time of the audit.

The owner's address is shown as:

[0x660f8cb3eebf1eb8d5ccb39c632e335f1e91282f](https://etherscan.io/address/0x660f8cb3eebf1eb8d5ccb39c632e335f1e91282f)

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Smart Contract –

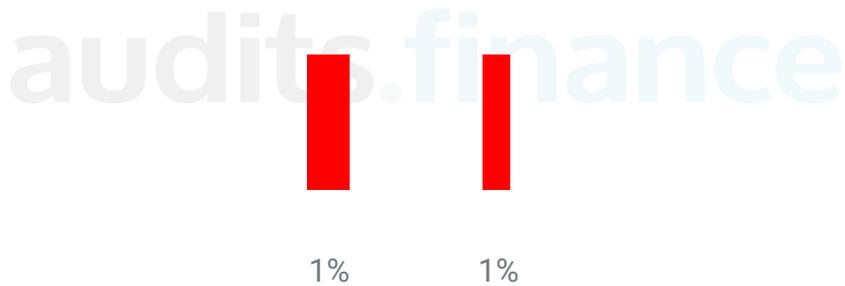
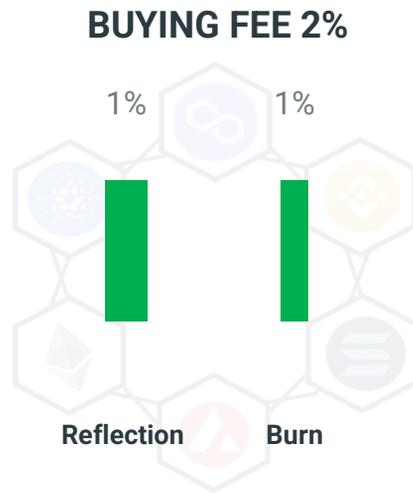
Locked Liquidity

Locked liquidity information was not identified on the website at the time of the audit completion.

Locked liquidity is always be subjected to change.

Smart Contract - Tokenomics

At the time of audit the transaction fees (“tax”) listed below are the fees associated with trading. These fees are taken from every buy and sell transaction unless otherwise stated. Token taxes vary by each project.

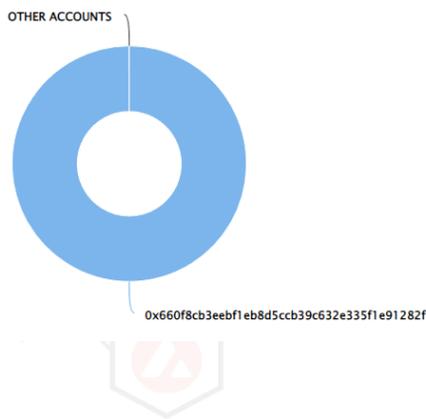


Token Holders & Contract Analytics

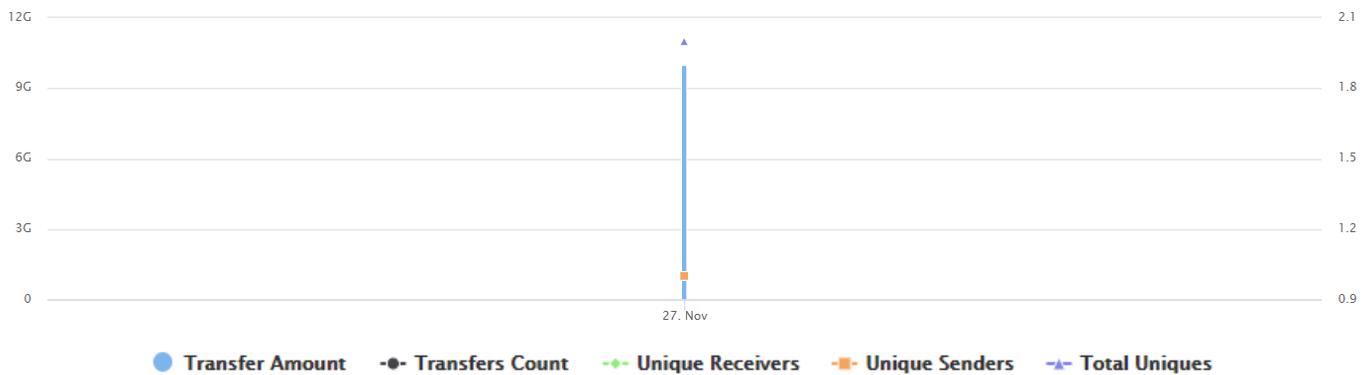
Top 100 Token Holders

IOTEN Top 100 Token Holders

Source: BscScan.com



Token Contract Analytics



Team Overview



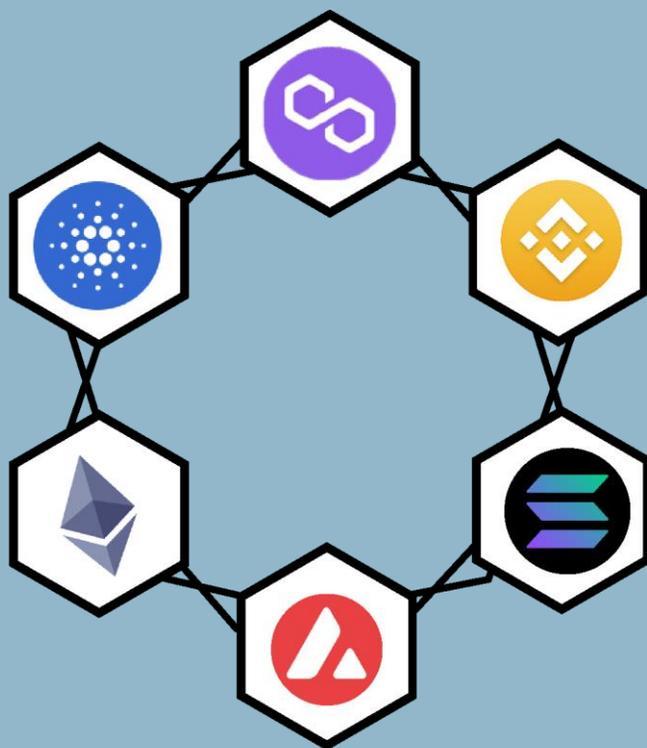
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KYC NOT CERTIFIED

Audits.finance has not completed a KYC for the project. Audits.finance has not verified the identity of any team member(s) with government issued ID and photo evidence to match. This project is anonymous.

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